SELF- ASSESSMENT REPORT
FOR
NATIONAL BOARD OF ACCREDITATION
(NBA)

Samarth Educational Trust
Arvind Gavali College of Engineering
At- Panmalewdi, Post- Varye, Tal-Dist. Satara-415015

e-SAR Department of Computer Science & Engineering

CRITERION 01	**Vision, Mission and Program Educational Objectives**	**60**

1. VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

1.1. State the Vision and Mission of the Department and Institute (05)

A. Availability of the Vision and Mission statements of the department

VISION of Institute

To be an institute of excellence, developing skilled engineers to serve the industry and society.

MISSION of Institute

M1: To provide quality education through effective teaching learning process.

M2: To develop professional skills and promote innovation among students by providing conducive atmosphere.

M3: To inculcate ethical values, respect for the environment & social responsibility.

VISION of Department

To emerge as a prominent computer science & engineering center to produce quality professionals to meet industrial and social needs.

MISSION of Department

1. To produce IT professionals with intellectual ability by imparting quality education.

2. To induce competency among the students by engaging them in requisite skills & aptitude.

3. To develop consciousness of societal & ethical needs in the field of computer science & engineering.

B. Appropriateness/ Relevance of the statements.

Institute

- To be an institute of excellence, developing skilled engineers to serve the industry and society.

Institute communicating its purpose to stakeholders through key-term excellence and also informing development through strategy. The goals and objectives are involved to quantify the success of the institute. Excellence in the field of engineering education system towards greater cause of society through the implementation of projects for solve the society related problems and commitment to readiness of industry oriented skill to serve in industry as a professional engineer by including the expert lecture series through industrial experts and internships.

- To provide quality education through effective teaching learning process.

  Through the use of ICT tools and project-based learning, we aim to provide high-quality education to students. Through the use of innovative teaching methods, we have been able to create a variety of learning experiences through industrial experts, real world & inquiry based learning.

- To develop professional skills & promote innovation among students by providing conductive atmosphere.

  The institute inculcates the technical skills & soft skills among the students by conductive atmosphere through project competition, innovative ideas in "AVISHKAR", patent filing, registration for NPTEL, conduction of soft skill sessions through experts, executing training and placement activities, internships etc.

- To inculcate ethical values, respect for environment and social responsibility.

The institute has organized the session on ethical values to describe ethical values at workplace such as obeying the institute rules and regulations, effective communication, taking responsibility, professionalism, trust and mutual respect. The institute has also been organized & participated in environmental and social related activities including tree plantation, cleanliness camp, geo-tagging, no vehicle day etc and blood donation, mask and tablet donation, dustbin distribution, vaccination camp, self-defense camp etc.

Department

- To emerge as a prominent computer science & engineering center to produce quality professionals to meet industrial & social needs.

  The main aim of Department is to provide quality education through fulfillment of industrial requirements through technical skill and identify the society related problems through problem statement and problem solution through technical means. The department is interested to contribute professional engineers with commitment to readiness of industry oriented skill through potential research.

- To produce IT Professionals with intellectual ability by imparting quality education.

  A lot of efforts has been taken by department to enhance the intellectual ability of students as a IT professional through quality education by incorporating the industrial expert sessions, industrial visits, internships, domain wise expertize, innovations through Avishkar, training and placement activities through soft skill including aptitude test, group discussion etc.

- To induce competency among the students by engaging them in requisite skills & aptitude.

  There are various expert sessions has been conducted in the department to develop the technical skill. The internships & industrial visits are the keys to upgrade the industry oriented skills in the students. The sessions on aptitude, group discussion etc under the soft skill has been conducted to induce the holistic development of the students.

- To develop consciousness of societal and ethical needs in the field of computer science & engineering

  The department is inculcating the awareness among the students regarding societal and ethical needs in the field of computer science and engineering. The *Ethical perspectives encourage individuals to act morally, balancing the demands of society with the needs of an individual.* The class activity refers to work completed in small groups that involves analyzing different professional ethical dilemmas that are related to the context

described and apply the knowledge of machine learning, artificial intelligence etc in society based applications through ethics.

C. Consistency of the department statements with the institute statements

Vision

The departmental vision is consistent with institute vision as department has recognized to contribute quality professional engineers with commitment to provide industry ready skills in the students and identified the problem statement related to society. The problem solutions by applying innovative methodology with industrial skill for society relate problems.

Mission

M1 is consistent with institute mission as advanced teaching learning methodologies lead to imparting high academic excellence with quality education. The intellectual ability has been developed through innovative teaching methods through ICT and project based learning, real world learning, inquiry based learning.

M2 is in-line with institute mission as institute has provided the conductive atmosphere for professional skills including technical skill, soft skills and innovations through emerging technologies with requisite skills.

M3 is consistent with institute mission to build student community with high ethical standards through techno-social activities and consciousness of environment through various activities.

Consistency Matrix

	Institute	**Department**
Vision	To be an institute of excellence, developing skilled engineers to serve the industry and society.	To emerge as a prominent computer science & engineering center to produce quality professionals to meet industrial and social needs.
Mission 1	To provide quality education through effective teaching learning process.	To produce IT professionals with intellectual ability by imparting quality education
Mission 2	To develop professional skills and promote innovation among students by providing conducive atmosphere.	To induce competency among the students by engaging them in requisite skills & aptitude
Mission 3	To inculcate ethical values, respect for the environment & social responsibility.	To develop consciousness of societal & ethical needs in the field of computer science & engineering

1.2. State the Program Educational Objectives (PEOs) (05)

The Program Educational Objectives of Computer Science & Engineering program is listed below:

PEO 1: The graduate will be able to analyse and solve industry problems by applying basics of mathematics and algorithms.

PEO 2: The graduate will be able to develop solutions using modern engineering tools and techniques to solve real life problems.

PEO 3: The graduate will become ethical professionals in IT industries contributing to societal progress and respect environment.

The program's educational objectives are designed to include five core values: Professionalism, Core competency, society & environment, Industrial skills, and breadth of knowledge. The contexts of PEO's are as below.

PEO1: Superscribes the importance of mathematics to analyze the industry related problems and problems solution by applying the various algorithms that has studied in regular curriculum. It also emphasizes fundamental competencies and collaborative abilities. PEO1 is made up of four main components: core competency, individual & team work, employability, and team work.

PEO2: To be a T-shaped engineer with social concern, PEO2 stresses the graduate's capacity to apply knowledge across multiple settings in the long run and possess in-depth functional and disciplinary abilities to solve daily life problems in society through modern engineering tools and emerging technologies. Diversified professionalism, Environment and Society, Interpersonal skills, investigations, analysis and solutions are the essential factors that contribute to PEO2.

PEO3: Exhibits the characteristics of a graduate who is interested in ethical professionals for contribution in societal progress and respect environment. The graduates uses various areas of computing to develop sustainable solutions in the various areas including energy, agriculture, transportation, environmental justice, and forecasting. Data science and software engineering are some of the areas that utilize to develop these sustainable solutions. PEO3 is made up of

three main components: core competency, societal progress, and environment and sustainability.

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among Stakeholders (10)

1.3 A: Publication and dissemination of Vision, Mission and PEOs

The department takes extensive efforts to publish and disseminate vision, mission of the department and PEOs of the program to all internal and external stake holders through various media such as digital, print through student progress record, vinyl records and interaction through meetings in offline and online mode as well.

Table: 1.1 and 1.2 shows details of publication and dissemination of statements

Table 1.1: Stakeholders of the Program

Stakeholder	Type	Purpose/relevance	Mode of Publication and dissemination
Management	Internal	Defining development plan and road map, Providing physical, human and financial resources and Formulation of policies.	1. Display boards at meeting/interaction locations for all the visiting and working stake holders. (Department Entrance, HOD Office, Faculty rooms, Laboratories, Classrooms, Department meeting room/Library) 2. Department Newsletter, Course Manuals and Laboratory Manuals, Faculty Course File, Information Brochures, Event & industrial visit reports, Academic diary, Internal Test Assessment book.
Faculty and Support Staff	Internal	Implementer (Contributor) of Policies Key contributor in developing/implementing growth plan, Responsible for producing competent graduates/product from the Institution	
Students	Internal	Responsible for creating institute reputation & outcome.	
Employers	External	Employing graduates and making an assessment on competence and employability.	

Industry	External	Employer as well as participant in curriculum development and industry – institute activities.	3. In digital form, the statements are published through Institute website, Email, social media, Screen saver, Event Presentations, CANVA platform. 4. The dissemination is observed through online/offline mode such as induction programs, counseling round, administrative and stake holders meeting.
Alumni	External	Able to co-relate learning and professional practice, Provides appropriate inputs to the department/program Committee.	
Funding Agencies	External	Provides financial assistance to the Institution and interacts with the Principal Investigator/Faculty of the department /program	
Parents	External	Perception on the support provided by department/ program for shaping up the career of their wards	
Regulatory/ Accrediting Authorities/Professional bodies	External	Prescribes norms and standards to ensure quality assurance and enhancement	
Society	External	Provides intangible outcome from the Institution perspective	

Table 1.2: Vision, Mission & PEOs are Published & Disseminated

Sr. No.	Mission and Vision are published at	Internal Stake Holders	External Stake Holders
1	College Website: www.agce.edu.in (https://agce.edu.in/)	√	√
2	Institute Moodle : https://103.159.152.195/moodle	√	
3	Curriculum Course File	√	
4	Academic Diary	√	
5	Internal Test Assessment Book	√	
6	Department Notice Board	√	
7	Laboratories	√	
8	Staff Rooms	√	
9	Class Rooms	√	
10	Department Newsletter	√	√
11	Industry Institute Interaction Meets		√

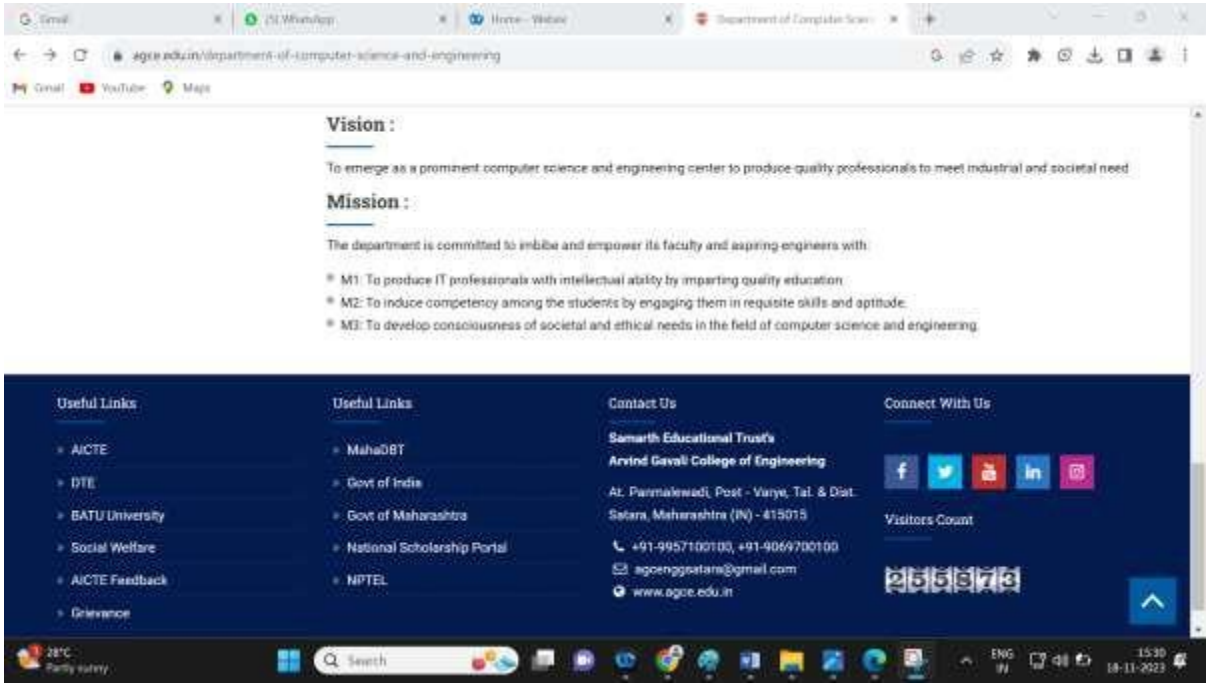


Fig. 1.3a: Screenshot of Vision, Mission of department disseminated on website

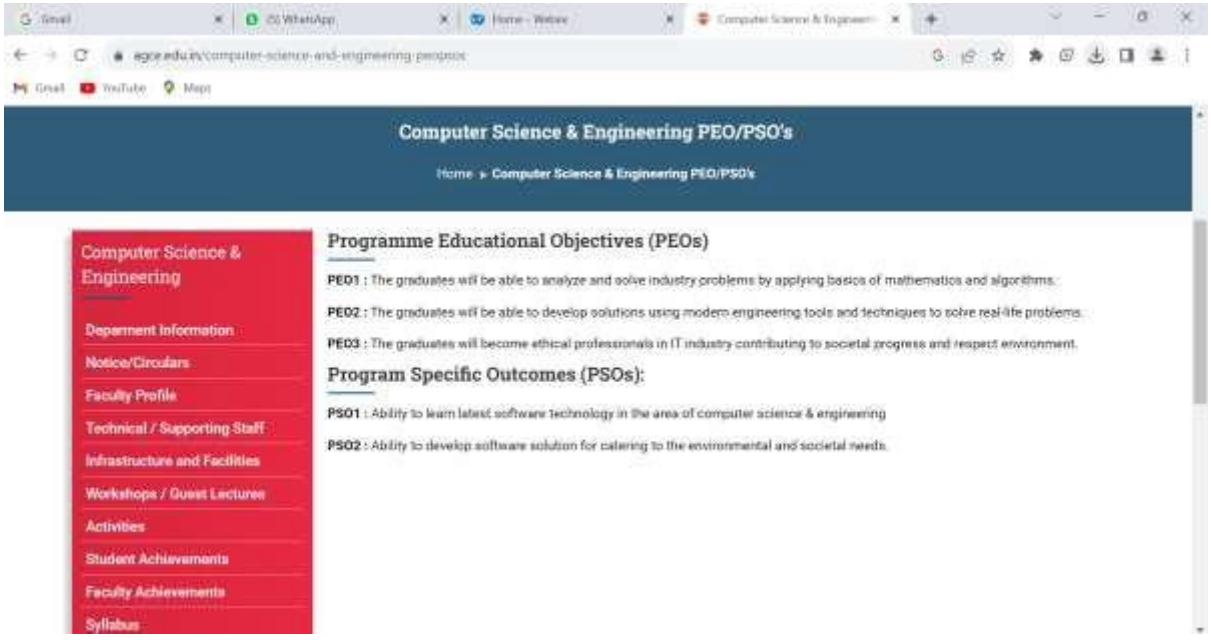


Fig. 1.3b: Screenshot of Programme Educational Objectives and Program Specific Outcomes (PSOs) disseminated on website

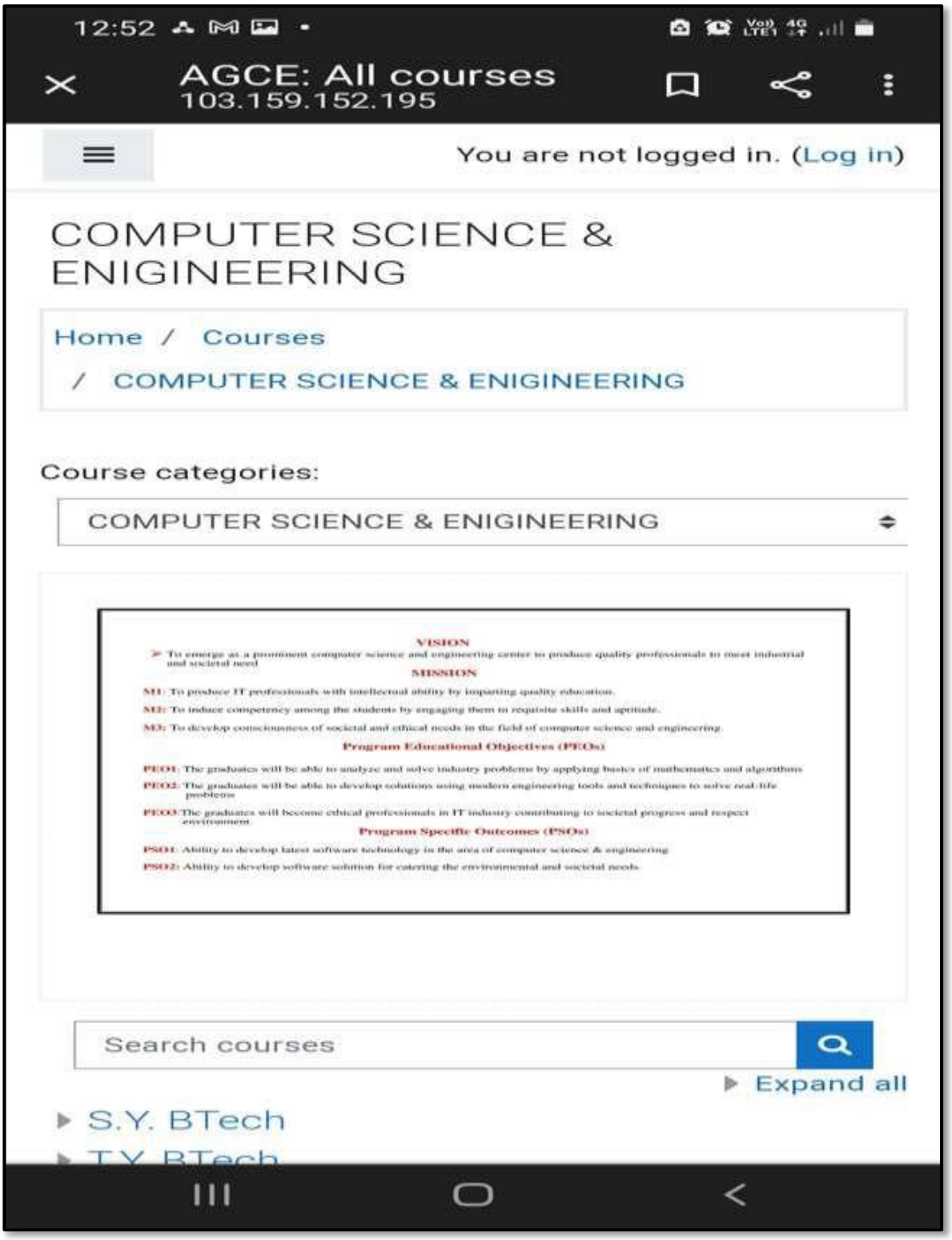


Fig. 1.3c: Screenshot of Vision, Mission and PEOs disseminated on website

1.3 B: Process of Dissemination

- The dissemination of statements is observed through stakeholders' interaction, having specific relevance of vision, mission elements and PEOs in planning, delivery and execution of academic program.
- The roadmap towards successful career is explained through vision, mission elements and PEOs, during induction program.
- During the guidance and counseling round, the students are sensitized about career plan and higher studies in line with vision, mission & PEOs
- During the administrative meets, it is observed that the policies, execution and monitoring of academic plan are in line with vision, mission elements and PEOs.
- The Vision and Mission is disseminated through presentation by Head of department, Program Coordinator and Course Coordinators at commencement of the term and during sessions periodically.
- Importance of Vision and Mission along with its relevance to the Program Outcomes is presented to the students by the faculty members during sessions.
- The institute vision, mission and departmental vision, mission and program educational outcomes has been described in each and every event (technical & non-technical), meetings with DAB, parents meet etc.
- Head of Department in association with Program Coordinator educates the faculty members about importance and relevance of Vision and Mission with Program Educational Objectives and Program Outcomes.

1.3 C: Extent of Awareness of Vision, Mission & PEOs

- The Head of Department has stated the vision, mission & PEOs in meetings with internal & external stakeholders viz. Departmental Advisory Board (DAB) meet, Parents meet, Employers meet, Alumni meet, Students meet through GFM, faculty meet, Events Inauguration etc. The importance of vision and its achievements through mission with the relevance of program educational outcomes (PEOs) have been described to internal & external stakeholders to know the continuous progress of department & outcome based education.

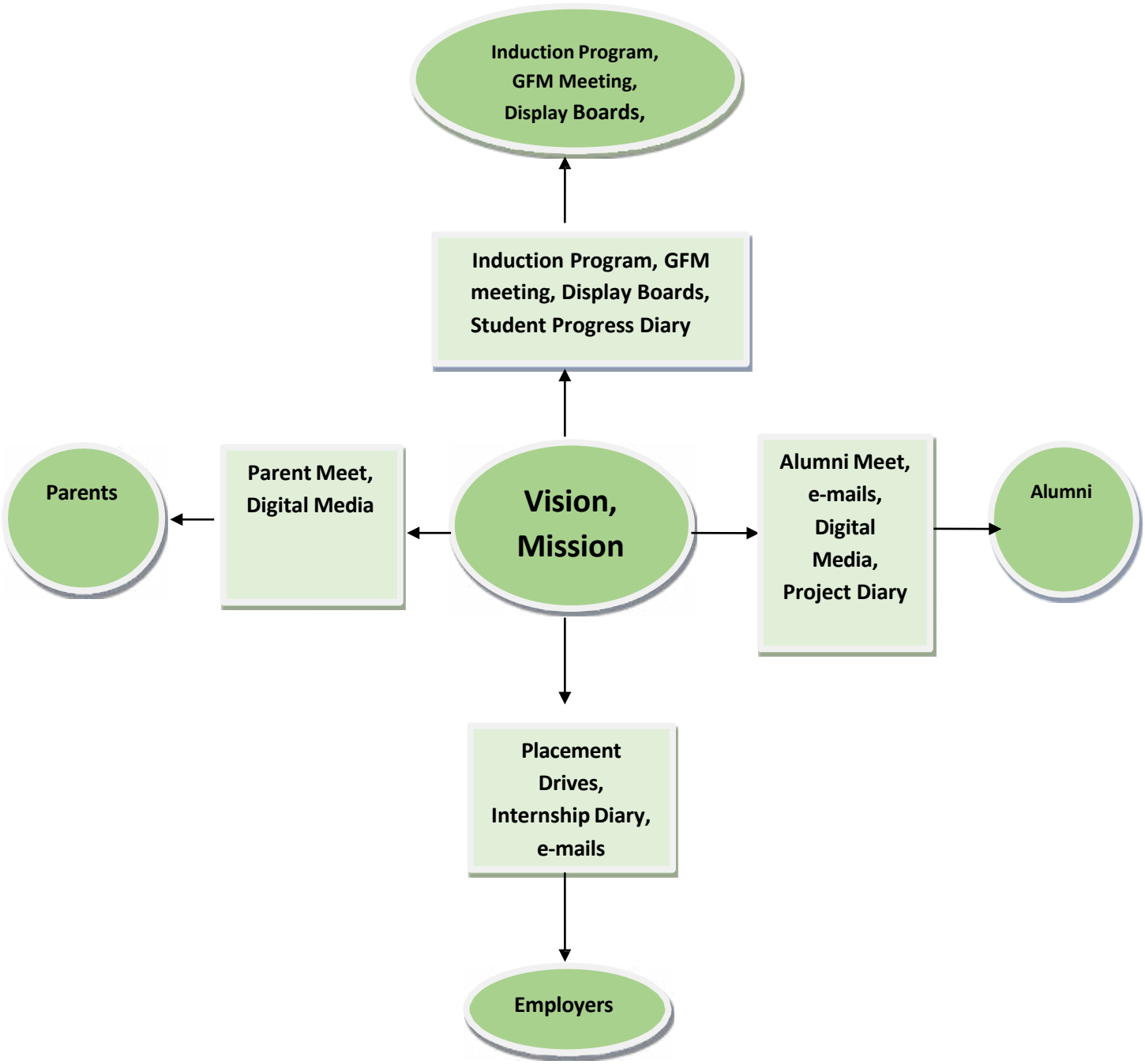


Fig. 1.3d: Awareness of Vision, Mission & PEOs

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)

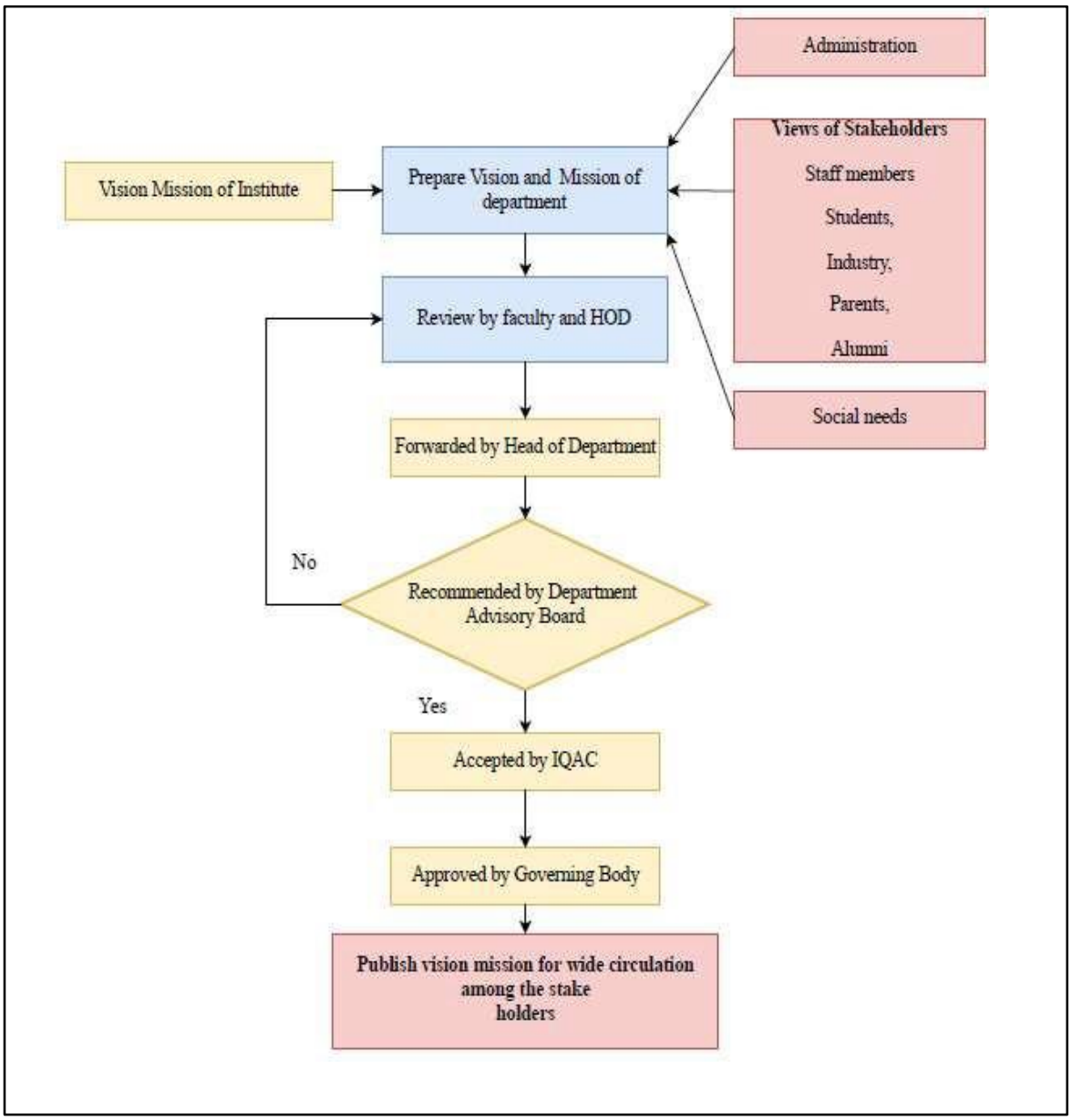


Fig 1.4 a: Process of defining the Vision & Mission of Department

- **Process of Defining the Vision & Mission of the Department**

- The Department established its Vision and Mission statements through a consultative process by interacting with all the stakeholders of the department, the long term and short-term goals of the department and the societal requirements as shown in following Figure 1.4a. The Vision and Mission statements of the department were formulated during in the year 2020. The new Outcome Based Education (OBE) accreditation process has given an opportunity to review and modify the Vision and Mission statements of the department considering the Graduate Attributes. The Internal stake holders involve students, staff members etc. whereas external stakeholders involve industries/employers, parents, alumni, professional bodies etc. The following steps have been followed to formulate vision & mission of the department.
- **Step 1:** Head of Department along with faculty members formulate & coordinate the vision and mission statement of the department, based on the continuous feedback from internal & external stakeholders in line with vision and mission of the Institute.
- **Step 2:** The formulated statements of vision & mission are presented in the DAB meeting and waiting for their recommendations or suggestions/advice. It is in continuous flow from review of faculty & HoD to Departmental Advisory Board & vice versa till the final recommendation from DAB.
- **Step 3:** Recommended vision and mission statements from DAB are sent to the IQAC to coordinate with governing body. Once it is accepted by IQAC, the governing body has approved it in coordination with IQAC.
- **Step 4:** Finally, the vision and mission statements are published to internal & external stakeholders through digital & print media.

- Process of Defining the Program Educational Outcomes (PEOs) of the Program

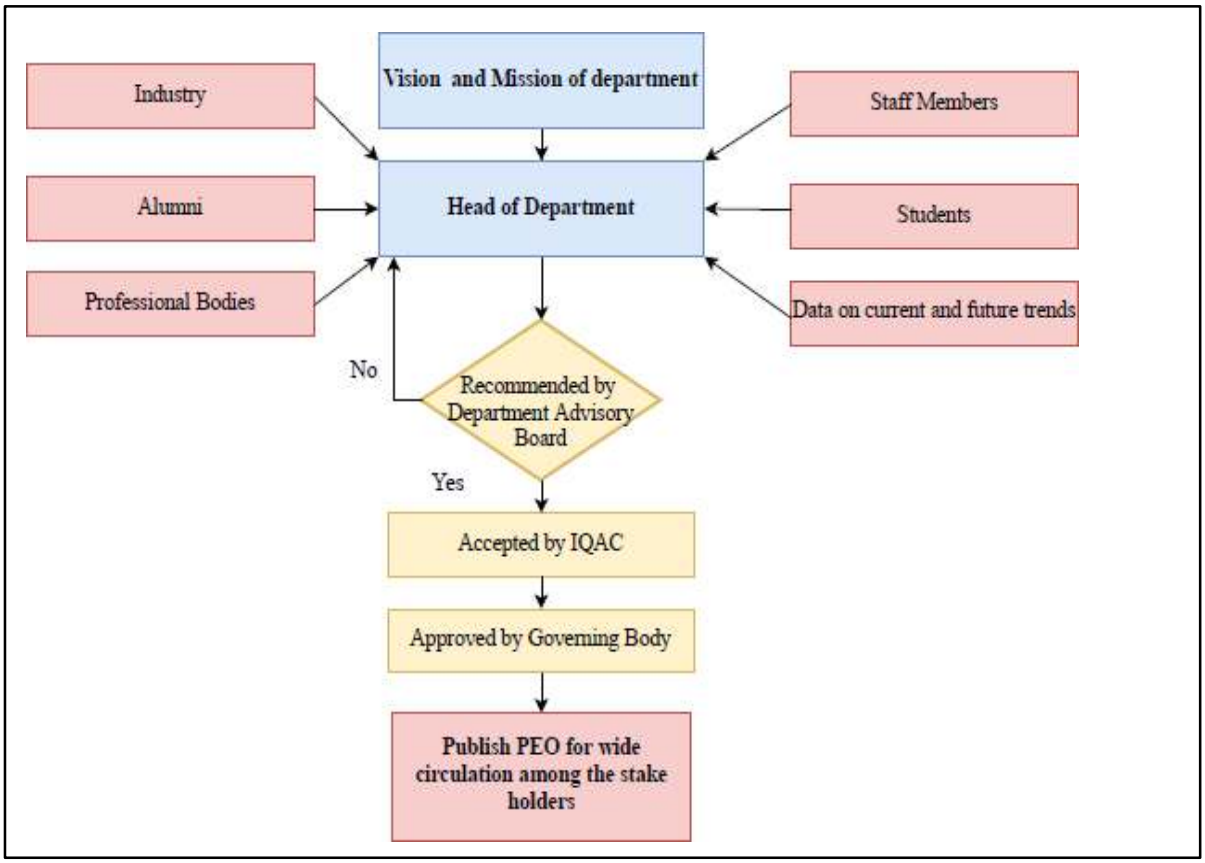


Fig 1.4 b: Process of defining PEOs of the program

The process of defining PEOs is in conjunction with Vision, Mission of program and inputs received from a committee constituting representatives of all internal & external stakeholders as shown in Fig 1.4 b. The PEOs are established through following steps.

- **Step 1:** PEOs were created by HoD comprising of students, staff members, alumni, industrial experts, professional bodies and data on current and future trends.
- **Step 2:** The formulated PEOs are forwarded to Departmental Advisory Board (DAB) for recommendation or suggestions in formulated PEOs. It is in continuous flow HoD to Departmental Advisory Board & vice versa till the final recommendation from DAB.
- **Step 3:** Recommended PEOs statements from DAB are sent to the IQAC to coordinate with governing body. Once it is accepted by IQAC, the governing body has approved it in coordination with IQAC.

- **Step 4:** Finally, the Program Educational Outcomes (PEOs) statements are published to internal & external stakeholders through digital & print media.

  The following documents are maintained at the department

  1. Committee minutes of meeting
  2. Stakeholder's feedback/form
  3. Parents feedback
  4. Alumni inputs
  5. DAB: Minutes of meeting

1.5. Establish consistency of PEOs with Mission of the Department (15)

The Program Educational Objectives are consistent with the Mission statement of the department which is stated in following tables.

PEO and Mission Statement Consistency

PEO Statements	M1	M2	M3
PEO1: The graduates will be able to analyze and solve industry problems by applying basics of mathematics and algorithms	3	2	1
PEO2: The graduates will be able to develop solutions using modern engineering tools and techniques to solve real-life problems	2	3	1
PEO3:The graduates will become ethical professionals in IT industries contributing to societal progress and respect environment.	1	2	3

PEO Statements	**M1**	**M2**	**M3**	
	M1: To produce IT professionals with intellectual ability by imparting quality education.	M2: To induce competency among the students by engaging them in requisite skills and aptitude.	M3: To develop consciousness of societal and ethical needs in the field of computer science and engineering.	
PEO1: The graduates will be able to analyze and solve industry problems by applying basics of mathematics and algorithms.	3	2	1	M1 is highly correlates with PEO1 as quality education through intellectual ability based on the utilization of basics of mathematics analyze and algorithms to solve industrial problems
				M2 moderately correlates with PEO1 as the basics of requisite skills through algorithms and basics of mathematics are essential for aptitude.
				M3 slightly correlates with PEO1 since it is consciousness of societal and ethical needs where slight use of mathematics & algorithms. Hence, there are slight co-

				relations between PEO1 and M3.
PEO2: The graduates will be able to develop solutions using modern engineering tools and techniques to solve real-life problems	2	3	1	M1 moderately correlates with PEO2 as the modern tools and techniques are necessary for the quality education but cannot totally depend on modern tools at all time.
				M2 is highly correlates with PEO2 as it deals with the requisite skills & reasoning knowledge with creative thinking through modern engineering tools to solve real life problems.
				M3 slightly correlates with PEO2 as modern techniques that slightly covers ethical values, respect for the environment, and social responsibility among the students.

PEO3: The graduates will become ethical professionals in IT industries contributing to societal progress and respect environment	1	2	3	M1 slightly correlates with PEO3 as it emphasizes on quality education however the PEO3 focuses on awareness of ethical, societal & environmental issues.
				M2 moderately correlates with PEO3 as it inculcates professional skills among the students to serve the society with ethical values.
				M3 is highly correlates with PEO3 as it emphasizes on imbibing ethical values, environmental and social awareness among students.

PEOs	Mission Component		
	M1 To produce IT professionals with intellectual ability by imparting quality education	M2 To induce competency among the students by engaging them in requisite skills & aptitude.	M3 To develop consciousness of societal & ethical needs in the field of computer science & engineering.
PEO-1 The graduate will be able to analyze and solve industry problems by applying basics of mathematics and algorithms.	3 PEO- applying basics of mathematics and algorithms M- imparting quality education	2 PEO- analyses and solve industry problems M- Requisite skills & aptitude.	1 PEO- solve industry problems M- consciousness of societal & ethical needs
PEO-2 The graduate will be able to develop solutions using modern engineering tools and techniques to solve real life problems.	2 PEO- able to develop solutions M- IT professionals with intellectual ability	3 PEO- using modern engineering tools and techniques M-. induce competency among the students	1 PEO- to solve real life problems. M- consciousness of societal & ethical needs in the field of computer science & engineering

PEO-3 The graduate will become ethical professionals in ITES industries contributing to societal progress and respect environment.	1 PEO- become ethical professionals in IT industries M- Imparting quality education.	2 PEO- To develop awareness towards ethical issues M- engaging them in requisite skills & aptitude	3 PEO- contributing to societal progress and respect environment M- societal & ethical needs in the field of computer science & engineering.

PEOs	Mission Component
PEO-1 The graduate will be able to analyse and solve industry problems by applying basics of mathematics and algorithms.	**M1 -** To enrich intellectual ability by imparting quality education.
	M2 - To nurture requisite skills & aptitude among the students for successful personal and professional career.
	M3 – To develop consciousness of societal & ethical needs
PEO-2 The graduate will be able to develop solutions using modern engineering tools and techniques to solve real life problems. .	**M1 -** To enrich intellectual ability by imparting quality education
	M2 - To nurture requisite skills & aptitude among the students for successful personal and professional career.
	M3 - To develop consciousness of societal & ethical needs
PEO-3 The graduate will become ethical professionals in ITES industries contributing to societal progress and respect environment	**M1 -** To enrich intellectual ability by imparting quality education
	M2 - To nurture requisite skills & aptitude among the the students for successful personal and professional career.
	M3 - To develop consciousness of societal & ethical needs

Level 3- Above 70%, **Level 2-** 50 To 70%, **Level 1-** 30 To 50%

PEOs	Mission Component
PEO-1 The graduate will be able to analyse and solve industry problems by applying basics of mathematics and algorithms.	**M1 -** To enrich intellectual ability by imparting quality education.
	M2 - To nurture requisite skills & aptitude among the students for successful personal and professional career.
	M3 – To develop consciousness of societal & ethical needs
PEO-2 The graduate will be able to develop solutions using modern engineering tools and techniques to solve real life problems. .	**M1 -** To enrich intellectual ability by imparting quality education
	M2 - To nurture requisite skills & aptitude among the students for successful personal and professional career.
	M3 - To develop consciousness of societal & ethical needs
PEO-3 The graduate will become ethical professionals in ITES industries contributing to societal progress and respect environment	**M1 -** To enrich intellectual ability by imparting quality education
	M2 - To nurture requisite skills & aptitude among the the students for successful personal and professional career.
	M3 - To develop consciousness of societal & ethical needs

CRITERION 02	**Program Curriculum & Teaching Learning Process**	**120**

2.1.1. State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

Arvind Gavali College of Engineering, Satara is affiliated with Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere Maharashtra. Computer Science & Engineering department follows the scheme and syllabus of DBATU University.The scheme follows the semester pattern and is divided into eight semesters for a four-year graduation program. The curriculum contains basic sciences, social sciences, humanities, professional and elective courses.

According to the university curriculum, each course is mapped with 12 Program Outcomes (POs) and 2 Program Specific Outcomes (PSOs), and the evaluation of each PO and PSO is done. The university's recommended courses adhere strictly to all Pos and PSOs. Faculty from the Computer Program actively participate in developing and implementing University curricula. By setting up several skill-oriented certified add-on courses and industry-sponsored competitions for the student's overall development, academic flexibility is accomplished. To help students fulfill the demands and expectations of the industry, the programme offers a variety of supplemental courses. Following table summarizes categorization of entire curriculum in various course.

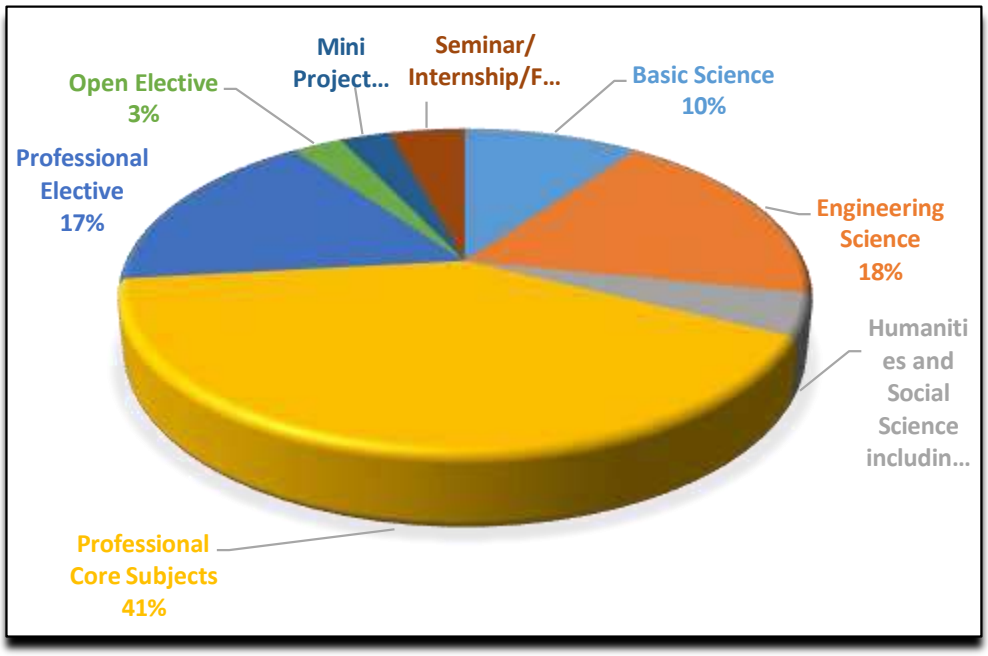


Fig B 2.1.1a Curriculum Components

Table B 2.1.1a Curriculum Component Categorization.

Sr. No.	Type of Courses Offered	Number of Subjects Mapped	Number of Credits allotted	Weightage in percentage
1.	Basic Science	07	22	14
2.	Engineering Science	13	19	12
3	Humanities and Social Science including Management Courses	03	03	2
4	Professional Core Subjects	29	68	42
5	Professional Elective	12	28	17
6	Open Elective	02	06	4
6	Mini Project /Major Projects	02	13	8
7	Seminar/ Internship/Field Training	03	03	2
Total		71	162	100

Table B 2.1.1 b UniversityCurriculum Structure

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Semester - I
Group A

Sr. No.	Course Code	Course Title	Weekly Teaching hrs			Evaluation Scheme			Credit
			L	T	P	CA	MSE	ESE	
1	**Mandatory**	**Induction Program**	**3 weeks duration in the beginning of the semester**						
2	BTBS101	Engineering Mathematics – I	3	1	-	20	20	60	4
3	BTBS102	Engineering Physics	3	1	-	20	20	60	4
4	BTES103	Engineering Graphics	2	-	-	20	20	60	2
5	BTHM104	Communication Skills	2	-	-	20	20	60	2
6	BTES105	Energy and Environment Engineering	2	-	-	20	20	60	2
7	BTES106	Basic Civil and Mechanical Engineering	2	-	-	50	-	-	Audit
8	BTBS107L	Engineering Physics Lab	-	-	2	60	-	40	1
9	BTBS108L	Engineering Graphics Lab	-	-	4	60	-	40	2
10	BTHM109L	Communication Skills Lab	-	-	2	60	-	40	1
		TOTAL	**14**	**2**	**8**	**330**	**100**	**420**	**18**

Semester - II
Group B

Sr. No.	Course Code	Course Title	Weekly Teaching hrs			Evaluation Scheme			Credit
			L	T	P	CA	MSE	ESE	
1	BTBS201	Engineering Mathematics – II	3	1	-	20	20	60	4
2	BTBS202	Engineering Chemistry	3	1	-	20	20	60	4
3	BTES203	Engineering Mechanics	2	1	-	20	20	60	3
4	BTES204	Computer Programming in C	2	-	-	20	20	60	2
5	BTES205	Workshop Practices	-	-	4	60	-	40	2
6	BTES206	Basic Electrical and Electronics Engineering	2	-	-	50	-	-	Audit
7	BTES207L	Computer Programming Lab	-	-	2	60	-	40	1
8	BTBS208L	Engineering Chemistry Lab	-	-	2	60	-	40	1
9	BTES209L	Engineering Mechanics Lab	-	-	2	60	-	40	1
10	BTES210P	Mini Project	-	-	2	60	-	40	1
11	BTES211P	Field Training / Internship / Industrial Training (minimum of 4 weeks which can be completed partially in First Semester and Second Semester or in at one time).	-	-	-	-	-	-	Credit to be evaluated in III Sem
		TOTAL	**12**	**3**	**12**	**430**	**80**	**440**	**19**

Semester - III

Sr. No.	Course Code	Course Title	Weekly Teaching hrs			Evaluation Scheme			Credit
			L	T	P	CA	MSE	ESE	
1	BTBSC301	Engineering Mathematics – III	3	1	-	20	20	60	4
2	BTCOC302	Discrete Mathematics	2	1	-	20	20	60	3
3	BTCOC303	Data Structures	2	1	-	20	20	60	3
4	BTCOC304	Computer Architecture & Organization	2	1	-	20	20	60	3
5	BTCOC305	Digital Electronics & Microprocessors	2	1	-	20	20	60	3
6	BTHM3401	Basic Human Rights	2	-	-	50	-	-	Audit
7	BTCOL306	Python Programming	1	-	2	60	-	40	2
8	BTCOL307	HTML and JavaScript	1	-	2	60	-	40	2
9	BTCOL308	Data Structures Lab	-	-	2	60	-	40	1
10	BTCOL309	Digital Electronics & Microprocessor Lab	-	-	2	60	-	40	1
11	BTES211P	Field Training / Internship / Industrial Training Evaluation	-	-	-	-	-	50	1
		TOTAL	**15**	**5**	**8**	**390**	**100**	**510**	**23**

Semester - IV

Sr. No.	Course Code	Course Title	Weekly Teaching hrs			Evaluation Scheme			Credit
			L	T	P	CA	MSE	ESE	
1	BTCOC401	Design & Analysis of Algorithms	2	1	-	20	20	60	3
2	BTCOC402	Probability & Statistics	2	1	-	20	20	60	3
3	BTCOC403	Operating Systems	2	1	-	20	20	60	3
4	BTCOE404	**Elective - I** (A) Object Oriented Programming in Java (B) Object Oriented Programming in C++	2	1	-	20	20	60	3
5	BTID405	Product Design Engineering	1	-	2	60	-	40	2
		Elective - II							
6	BTBS405A	Physics of Engineering Materials	2	1	-	20	20	60	3
	BTCOE406B	Numerical Methods							
	BTHM3402	Soft skills and Personality Development							
7	BTCOL407	Design & Analysis of Algorithms Lab	-	-	2	60	-	40	1
8	BTCOL408	Introduction to Data Science with R	1	-	2	60	-	40	2
9	BTCOL409	Object Oriented Programming Lab	-	-	2	60	-	40	1
10	BTCOL410	Operating System Lab	-	-	2	60	-	40	1
11	BTCOF411	Field Training / Internship / Industrial Training Evaluation	-	-	-	-	-	-	Credit to be evaluated in V Sem.
		TOTAL	**12**	**5**	**10**	**400**	**100**	**500**	**22**

Semester – VI

Sr. No.	Course Code	Course Title	Weekly Teaching hrs			Evaluation Scheme			Credit
			L	T	P	CA	MSE	ESE	
1	BTCOC601	Compiler Design	3	1	-	20	20	60	4
2	BTCOC602	Computer Networks	3	1	-	20	20	60	4
3	BTCOE603	**Elective – V** (A) Human Computer Interaction (B) Artificial Intelligence (C) Object-Oriented Analysis Design	2	1	-	20	20	60	3
4	BTCOE604	**Elective – VI** (A) Geographical Information System (B) Biology (C) Internet of Things	2	-	-	20	20	60	2
5	BTCOE605	**Elective – VII** (A) Development Engineering (B) National Social Service (C) Consumer Behaviour	2	-	-	20	20	60	2
6	BTCOC606	Competitive Programming-II	1	-	2	60	-	40	2
7	BTCOL607	(A) Mobile Application Development **OR** (A) Internet of Things Laboratory	1	-	2	60	-	40	2
8	BTCOL608	Computer Networks Laboratory	-	-	2	60	-	40	1
9	BTCOF609	Field Training / Internship / Industrial Training	-	-	-	-	-	-	Credit to be Evaluated in VII Sem.
		TOTAL	**14**	**3**	**6**	**280**	**100**	**420**	**20**

Semester – VI

Sr. No.	Course Code	Course Title	Weekly Teaching hrs			Evaluation Scheme			Credit
			L	T	P	CA	MSE	ESE	
1	BTCOC601	Compiler Design	3	1	-	20	20	60	4
2	BTCOC602	Computer Networks	3	1	-	20	20	60	4
3	BTCOE603	**Elective – V** (A) Human Computer Interaction (B) Artificial Intelligence (C) Object-Oriented Analysis Design	2	1	-	20	20	60	3
4	BTCOE604	**Elective – VI** (A) Geographical Information System (B) Biology (C) Internet of Things	2	-	-	20	20	60	2
5	BTCOE605	**Elective – VII** (A) Development Engineering (B) National Social Service (C) Consumer Behaviour	2	-	-	20	20	60	2
6	BTCOC606	Competitive Programming-II	1	-	2	60	-	40	2
7	BTCOL607	(A) Mobile Application Development **OR** (A) Internet of Things Laboratory	1	-	2	60	-	40	2
8	BTCOL608	Computer Networks Laboratory	-	-	2	60	-	40	1
9	BTCOF609	Field Training / Internship / Industrial Training	-	-	-	-	-	-	Credit to be Evaluated in VII Sem.
		TOTAL	**14**	**3**	**6**	**280**	**100**	**420**	**20**

Semester - VII

Sr. No.	Course Code	Course Title	Weekly Teaching hrs			Evaluation Scheme			Credit
			L	T	P	CA	MSE	ESE	
1	BTCOC701	Software Engineering	3	-	-	20	20	60	3
2	BTCOE702	**Elective - VIII** (A) Big Data Analytics (B) Distributed System (C) Fundamental of Digital Image Processing	3	-	-	20	20	60	3
3	BTCOE703	**Elective - IX** (A) Cloud Computing (B) Business Intelligence (C) Natural Language Processing	3	-	-	20	20	60	3
4	BTCOE704	**Open Elective - X** (A) Blockchain Technology (B) Computer Graphics (C) Embedded Systems (D) Design Thinking	3	-	-	20	20	60	3
5	BTCOL705	Full Stack Development (LAMP / MEAN)	1	-	2	60	-	40	2
6	BTCOL706	System Administration	1	-	2	60	-	40	2
7	BTCOL707	Elective – VIII Lab	-	-	2	60	-	40	1
8	BTCOL708	Elective – IX Lab	-	-	2	60	-	40	1
9	BTCOP709	Project phase - I	-	-	2	60	-	40	1
10	BTCOF609	Field Training / Internship / Industrial Training	-	-	-	-	-	50	1
		TOTAL	**14**	**-**	**10**	**380**	**80**	**490**	**20**

Semester – VIII

Sr. No.	Course Code	Course Title	Weekly Teaching hrs			Evaluation Scheme			Credit
			L	T	P	CA	MSE	ESE	
1	BTCOE801	**Elective – XI ***	3	-	-	20	20	60	3
2	BTCOE802	**Open Elective – XII ***	3	-	-	20	20	60	3
3	BTCOE803	Project phase - II (In-house) $ / Internship and project in the Industry	-	-	24	60	-	40	12
		TOTAL	**6**	**-**	**24**	**100**	**40**	**160**	**18**

These subjects are to be studied on self–study mode using SWAYAM / NPTEL. The list of self-study online courses is given below.

The list of self-study online courses

BTCOE801: **Elective – XI ***	BTCOE802: **Open Elective – XII ***
(A) Deep Learning	(A) Introduction to Industry 4.0 and Industrial Internet of Things
(B) Social Networks	(B) Cryptography and Network Security ##
(C) Randomized Algorithms ##	(C) Model Checking

* Six months of Internship and Project in the industry.

The department has a well-defined process in implementation to achieve the Program Outcomes (PO) and Program Specific Outcomes(PSO). If some components, to attain Cos/POs are not included in the curriculum provided by DBATU, then the department makes additional efforts to impart this knowledge.

Following processes are used to identify the extent of compliance for attaining the Program Outcomes and Program Specific Outcomes

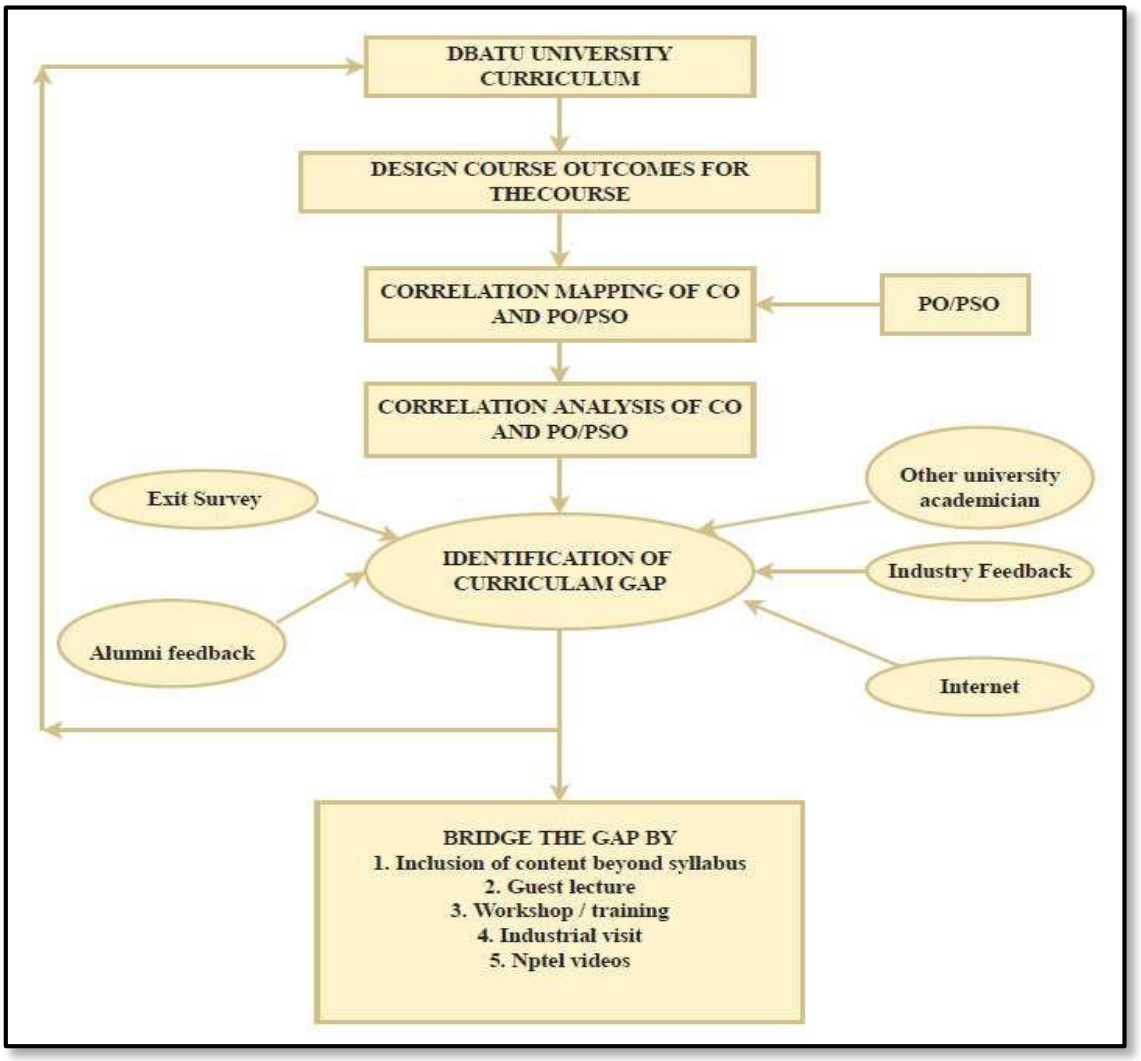


Figure B 2.1.1 b Process to Identify Curriculum Gaps

1. The University publishes the curriculum annually in June if changed or updated. The curriculum provides the syllabus of each course.
2. Faculty members update and design the course outcomes for the course allotted to them. The teaching plan with course objectives and course outcomes is prepared by the individual faculty member of the department before the commencement of a semester.

The plan is duly presented and confirmed in DAB. The plan ensures the coverage of the complete syllabus before the end of the semester

3. For each course, a course file is prepared by the concerned faculty member. The Co-relation matrix of CO with PO/ PSOs is also designed and analyzed by Academic Monitoring Committee.
4. The feedback from the alumni, industry experts, and academicians from other Universities and students is regularly taken. Gaps are identified based on the CO attainment of individual courses and feedback from different stakeholders.
5. The data collected is then presented before Program Evaluation and Review Committee. The gaps are discussed in the AMC meeting. To bridge gaps, seminars, workshops, guest lectures, industrial visits, etc. are arranged by our department/ institute to provide knowledge beyond the syllabus. The following table shows correlation matrix courses to program outcomes and program specific outcome.

Table B.2.1.1.c Mapping of the courses to program outcomes

SR. No	Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	BTBS101	Engineering Mathematics- I	Y	Y	Y	Y		Y					Y	Y	Y	Y
2	BTBS102	Engineering Physics	Y	Y	Y	Y		Y	Y					Y	Y	Y
3	BTES103	Engineering Graphics	Y	Y	Y	Y	Y					Y		Y	Y	
4	BTHM104	Communication Skills	Y				Y	Y		Y		Y		Y		Y
5	BTES105	Energy and Environment Engineering	Y	Y	Y	Y		Y	Y	Y		Y	Y			
6	BTES106	Basic Civil and Mechanical Engineering	Y	Y	Y	Y		Y	Y			Y	Y			
7	BTBS107L	Engineering Physics Lab	Y	Y	Y	Y		Y	Y		Y			Y	Y	Y
8	BTES108L	Engineering Graphics Lab	Y	Y	Y	Y	Y				Y	Y		Y	Y	
9	BTHM109L	Communication Skills Lab.	Y				Y	Y		Y		Y		Y		
10	BTBS201	Engineering Mathematics-II	Y	Y	Y	Y		Y					Y	Y	Y	Y

SR. No	Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
11	BTBS202	Engineering Chemistry	Y	Y				Y	Y		Y					
12	BTES203	Engineering Mechanics	Y	Y	Y			Y			Y					
13	BTES204	Computer Programming in C	Y	Y	Y						Y	Y			Y	
14	BTES205	Workshop Practices	Y				Y				Y	Y			Y	Y
15	BTES206	Basic Electrical and Electronics Engineering	Y					Y	Y						Y	Y
16	BTES207L	Computer Programming Lab	Y	Y	Y						Y	Y			Y	
17	BTBS208L	Engineering Chemistry Lab	Y	Y				Y	Y		Y					
18	BTES209L	Engineering Mechanics Lab	Y	Y	Y			Y	Y		Y	Y				
19	BTES210P	Mini Project	Y	Y			Y	Y	Y	Y	Y	Y		Y	Y	Y
20	BTBS301	Engineering Mathematics – III	Y	Y	Y										Y	
21	BTCOC302	Discrete Mathematics	Y	Y	Y	Y								Y	Y	Y
22	BTCOC303	Data Structures	Y	Y	Y		Y							Y	Y	
23	BTCOC304	Computer Architecture & Organization	Y	Y	Y									Y	Y	
24	BTCOC305	Digial electronics and microprocessor.	Y	Y	Y	Y		Y							Y	Y
25	BTHM3401	Basic human rights		Y	Y			Y						Y	Y	
26	BTCOL306	Pyhon Programming	Y	Y	Y		Y				Y				Y	
27	BTCOL307	HTML & Java Script	Y	Y	Y						Y				Y	
28	BTCOS308	Data Structures LAB	Y	Y	Y		Y		Y		Y				Y	Y
29	BTCOL309	Digial electronics and microprocessor.	Y	Y	Y		Y	Y		Y	Y	Y	Y		Y	
30	BTES211P	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time).	Y	Y	Y		Y	Y	Y	Y	Y		Y	Y	Y	Y
31	BTCOC401	Design & Analysis of Algorithms	Y	Y	Y	Y		Y							Y	Y

SR. No	Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
32	BTCOC402	Probability & Statastics	Y	Y	Y	Y		Y							Y	Y
33	BTCOC403	Operating Systems	Y	Y	Y	Y									Y	Y
34	BTCOE404	Elective-I (A) Object oriented Programming	Y	Y	Y			Y		Y				Y	Y	Y
35	BTID405	Product Design Engineering	Y	Y	Y	Y								Y	Y	
36	BTCOE406B	ELECTIVE-II NUMERICAL METHODS	Y	Y	Y	Y	Y							Y	Y	Y
37	BTCOL407	Design and analysis of algorithm	Y	Y	Y		Y							Y	Y	Y
38	BTCOL408	Introduction to data science with R	Y	Y	Y		Y		Y	Y	Y	Y		Y	Y	Y
39	BTCOL409	Object Oriented Lab	Y	Y	Y		Y		Y						Y	Y
40	BTCOL410	OPERATING SYSTEM LAB	Y	Y	Y		Y				Y	Y			Y	Y
41	BTCOC501	Database Systems	Y	Y	Y		Y								Y	Y
42	BTCOC502	Theory of Computation	Y	Y	Y		Y								Y	Y
43	BTCOC503	Machine Learning	Y	Y	Y		Y								Y	Y
44	BTCOE504	Elective-III (A) Introduction to Research	Y					Y		Y		Y				
45	BTCOE505	Elective-IV(B) Business Communication		Y	Y										Y	Y
46	BTCOC506	Competitive Programming-I	Y	Y	Y		Y		Y					Y	Y	Y
47	BTCOL507	Database System Laboratory	Y	Y	Y		Y				Y	Y			Y	Y
48	BTCOL508	Machine Learning Laboratory	Y	Y			Y				Y	Y			Y	Y
49	BTCOS509	Seminar	Y		Y		Y			Y	Y	Y		Y		
50	BTCOF411	Internship/Industrial Training	Y	Y	Y		Y	Y			Y	Y		Y	Y	Y
51	BTCOC601	Compiler Design	Y	Y	Y		Y								Y	Y
52	BTCOC602	Computer Networks	Y	Y	Y		Y								Y	Y
53	BTCOE603	Elective-V (B) Artificial Intelligence	Y	Y	Y		Y								Y	Y
54	BTCOE604	Elective-VI(C) Internet of Things	Y	Y	Y										Y	Y

SR. No	Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
55	BTCOE605	Open Elective-VII B) National Social Service	Y	Y	Y			Y	Y						Y	Y
56	BTCOC606	Competitive Programming-II	Y	Y				Y			Y	Y	Y		Y	
57	BTCOL607	(B) Internet of Things Laboratory	Y	Y			Y				Y	Y			Y	Y
58	BTCOL608	Computer Networks Laboratory	Y	Y			Y				Y	Y			Y	Y
59	BTCOC701	Software Engineering	Y	Y	Y		Y							Y	Y	Y
60	BTCOE702	Elective - VIII (A) Big Data Analytics	Y	Y	Y		Y								Y	Y
61	BTCOE703	Elective - IX (B) Business Intelligence	Y	Y	Y		Y							Y	Y	Y
62	BTCOE704	Open Elective - X (B) Computer Graphics	Y	Y	Y		Y								Y	Y
63	BTCOL705	Full Stack Development (LAMP / MEAN)	Y	Y	Y		Y				Y	Y			Y	Y
64	BTCOL706	System Administration	Y	Y			Y				Y	Y			Y	Y
65	BTCOL707	Elective – VIII Lab	Y	Y			Y				Y	Y			Y	Y
66	BTCOL708	Elective – IX Lab	Y	Y			Y				Y	Y			Y	
67	BTCOP709	Project phase – I	Y				Y				Y	Y		Y	Y	Y
68	BTCOF609	Field Training / Internship /Industrial Training	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
69	BTCOE801	Elective –XI Deep learning/ Social Networks	Y	Y	Y		Y	Y						Y	Y	Y
70	BTCOE802	Open Elective – XII Introduction to Industry 4.0 and Industrial Internet of Things	Y	Y	Y		Y	Y	Y			Y	Y	Y	Y	Y
71	BTCOE803	Project phase - II (In-house) /Internship and project in the Industry	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
		Total (71)	**69**	**64**	**55**	**17**	**42**	**29**	**18**	**12**	**31**	**30**	**10**	**29**	**61**	**48**
		Percentage	**97**	**90**	**77**	**24**	**59**	**41**	**25**	**17**	**44**	**42**	**14**	**41**	**86**	**68**

Curricular Gaps

The following table list the identified gaps in the syllabus of DBATU for the attainment of Program Outcomes and Program Specific Outcomes as per the above mapping.

Table B 2.1.1.d Gaps in Program Outcomes of University Curriculum

Sr. No.	PO's	Description
1	PO4	Investigation of complex problem
2	PO7	Environment & Sustainability
3	PO8	Ethics
4	PO11	Project Management & Finance

Following are the year wise curriculum gap identified:

CAYm1(2022-23):

Table B.2.1.1e Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Internet of Things (BTCOE604)	Programming RaspberryPi with Python	PO1,PO5,PSO1
2	Full Stack Development (BTCOL705)	User Experience(UX) Design	PO1,PO3,PO5,PSO1
3	Software Engineering (BTCOC701)	Jira tools,agile model,selenium tools	PO1,PO2,PO5,PSO1
4	Big Data Analytics (BTCOE702)	Big data ecosysytem AWS	PO1,PO2,PO3,PO5,PSO1
5	HTMLand Java Scipt BTCOL(307)	PHP with AJAX	PO1,PO3,PO5,PSO1
6	Business Communication (BTCOE505)	Ethics in Business communication	PO8,PO9,PO10,PSO1

CAYm2 (2021-22):

Table B.2.1.1.f Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Big Data Analytics (BTCOE702)	Hadoop, Yarn	PO1,PO2,PO3,PO5, PSO1
2	Business Intelligence (BTCOE703)	Dimensional Modeling	PO1,PO3,PO5, PSO1
3	Full Stack Development (BTCOL705)	Front end development	PO1,PO3, PSO1
4	Machine learning (BTCOC603)	MLOPs Practices	PO1,PO3,PO5, PSO1
5	Database Systems (BTCOC501)	Advanced SQL	PO1,PO3,PO5, PSO1
7	Industry Essential Skills	Industrial Culture	PO8, PO12,PSO2
8	Soft skill & Personality Development	Communication Skill, Presentation Skill	PO8,PO9,PO10,PO12 PSO1, PSO2
9	Entrepreneur Skills	Leadership Skill	PO8,PO9,PO10,PO11,PO12 PSO1, PSO2
10	Social Health & Safety Issues	Awareness about social health and safety measures	PO6, PO7, PSO2
11	Awareness of Higher Education	Various higher education opportunities	PO12, PSO1
12	Awareness of Education Support Scheme	Various higher education financial support schemes	PSO1

CAYm3 (2020-21)

Table B.2.1.1g Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Software Engineering (BTCOC701)	Test Driven Development	PO3, PO5,PSO1
2	Internet of Things (BTCOE604)	IoT application transport methods	PO2, PO3, PO5,PSO1
3	Object-oriented programming (BTCOE404)	Programs on STL Container & Iterators	PO1, PO2, PO5, PSO1

2.1.2. State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs. (10)

CAY m1(2022-23):

Sl. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No. of Students	Relevance to Pos, PSOs
1	Ethics in Business communication	Industrial Visit	12-10-2022	Acme Infovision Systems Pvt. Ltd	55	PO1 PO8, PSO1
2	User Experience (UX) Design	Expert Lecture Series on Core Java Programing	14-11-2022 To 13-12-2023	Mr. Sanket Jambhure	35	PO3, PO5, PSO1
3	Project Management	University Level Project Competition-Aavishkar	18-11-2022	Mr. S.V Khobragade	41	PO2, PO3, PO5, PSO1
4	Ethics in Business communication	Guest lecture on Management Studies	14-12-2022	Dr. Pranjali Ankule	116	PO1, PO3, PSO1, PSO2
5	Ethics in Business communication	Industrial Tour	17-12-2022	IIT Bombay	154	PO2, PO3, PSO1
6	& Industry Readiness	Alumni Guest Lecture on Interview Techniques	22-12-2022	Mr. Swaroop Dongare	22	PO3, PO5, PSO1

7	Technical &soft skills in line with the requirements of the industry	Skill Based Training Program	6-01-2023	Symboisis Skills and Professional University	34	PO2, PO3, PO5, PSO1
8	Recent Trends & Industry Readiness	Corporate Grooming	21-02-2023 To 23-02-2023	Mr. George	35	PO1, PO3, PO5, PSO1, PSO2
9	Technical Skills in line with the requirements of the industry	Alumni Guest Lecture Recent Technologies in IT	21-02-2023	Mr. Harshad Prashant Shinde & Mr. Kunal Sandeep Jirage	54	PO2, PO3, PO4, PSO1
10	Technical Skills in line with the requirements of the industry	Alumni Guest Lecture Project Based Learning	22-02-2023	Ms. Swarupa Ghorpade	55	PO1 PO3, PO5, PSO1
11	Technical Skills in line with the requirements of the industry	Alumni Guest Lecture Preparation for Placement	23-02-2023	Ms. Aarti Vilas Katkar	14	PO2, PO3, PO5, PSO1
12	Ethics in Business communication	Industrial visit	03-03-2023	Nebula Technologies Pune	51	PO10, PSO2

13	Technical Skills in line with the requirements of the industry	Guest lecture IT Career in digital marketing (AJDM)	10-03-2023	Mr. Ajinkya Pawar (AJDM, India)	55	PO2, PO3, PO4, PSO1
14	User Experience(UX) Design	Guest lecture Full stack Development	31-03-2023	Sanket Gharge do IT Infosystems	61	PO3, PO5, PSO1
15	Technical Skills in line with the requirements of the industry	Guest lecture Opportunities in IT Industry & Japan	3-05-2023	Mr.Bipin Kadam	73	PO2, PO3, PO5, PSO1
16	Jira tools,agile model,selenium tools	Guest lecture on software Testing	05-05-2023	Mr.Suraj Sawant & Mr. Omkar Mali	140	PO1, PO3, PO5, PSO1, PSO2
17	Recent Trends	International Conference	13-05-2023 To 14-05-2023	Dr. Zehila Selamoglu	60	PO2, PO3, PO4, PSO1
18	Big data ecosysytem AWS	Guest Lecture on Data & Analytics for IoT	19-05-2023	Mrs. Suruchi Degaonkar	58	PO3, PO5, PSO1
19	Technical Skills in line with the requirements of the industry	Recent Trends and opportunities in IT	19-05-2023	Mr. Shivraj Gaikwad (Rapportsoft Consulting Pune)	67	PO2, PO3, PO5, PSO1

20	Programming RaspberryPi with Python	Guest Lecture on IoT Physical devices Arduiono & Rasberry Pi	22-05-2023	Dr. Ratnmala Bhimanpallewar	55	PO1, PO3, PO5, PSO1, PSO2
21	PHP with AJAX	Five Days workshop on web designing and development	14-06-2023 To 19-06-2023	Mr. Nikhil Kambale Code Culture Pune	62	PO2, PO3, PO4, PSO1

CAY m2(2021-22):

Sl. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No of Students	Relevance to Pos, PSOs
1	Industry Software Test Cases, Black Box Testing, Categories of Testing	A career in Software Testing: Prerequisite & Opportunities	9-5-2021	Mr. Sushant Sankpal Quality Kiosks Mumbai	76	PO2, PO3, PO4, PSO1
2	IoT application transport methods	Online Guest lecture on IoT	20-03-21	Mr. Vivek Mohite,Genesis Tech Pvt Ltd, Pune	52	PO3, PO5, PSO1
3	Test Driven Development in Software Engineering	Online Guest lecture on Software Development	1-2-2021	Ms. AishwaryaMane,Matrix Education Pune,	48	PO2, PO3, PO5, PSO1
4	Technical Skills in line with the requirements of the industry	Online Guest lecture on OOP concepts and interview techniques	03-04-2021	Mr. Bhosale Suraj	60	PO1, PO3, PO5, PSO1, PSO2

5	Technical Skills in line with the requirements of the industry	Online Guest lecture on Project Domains	27-03-2021	Mr. Desai Akshay	56	PO1, PO3, PO5, PSO1, PSO2
6	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on Automation Testing	28-11-2020	Mr. Aniket Mendgule	55	PO1, PO3, PO5, PSO1, PSO2
7	Awareness of Higher Education	Prepare yourself for Abroad opportunities (M.S./ M.B.A) by	26-11-2020	Mr. Shekhar Bidwai, Director Chinmay Educational Consultancy, Pune	65	PO1, PO3, PO5, PSO1, PSO2
8	Awareness of Higher Education	How to Crack Gate Examination	5-12-2020	Mr.Sumit Acharya (Gate Academy Pune)	50	PO1, PO3, PO5, PSO1, PSO2
9	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on Java Framework	26-12-2020	Mr. Satish Udgave	40	PO1, PO3, PO5, PSO1, PSO2
10	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on Web Development	23-01-2021	Mr. RohitBhole	55	PO1, PO3, PO5, PSO1, PSO2

11	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on E-commerce SAP Hybris	20-02-2021	Ms. Poonam Bankar	45	PO1, PO3, PO5, PSO1, PSO2
12	Recent Trends & Industry Readiness	Online Alumni guest lecture on IT industry Overview, Automation Testing	27-03-2021	Ms. Yojana Gaikwad	55	PO6, PO8, PO9, PO10, PO11, PSO2
13	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on Software Development Cycle	24-04-2021	Ms.Priyanka Balaso Shinde	44	PO1, PO3, PO5, PSO1, PSO2
14	Technical Skills in line with the requirements of the industry	A career in Software Testing, Prerequisites, and Opportunities	09-05-2021	Mr. Sushant Sankpal	36	PO1, PO3, PO5, PSO1, PSO2
15	Technical Skills in line with the requirements of the industry	Online webinar on Intellectual property rights	28-05-2021	Dr. B.K Sarkar	43	PO1, PO3, PO5, PSO1, PSO2
16	Management & Leadership Skill	Importance of Management Studies and Career Opportunities	16-05-2021	Mr. Omkar Tembe	39	PO9, PO10, PO11, PO12

17	Awareness of Higher Education	How to Crack Gate Examination	5-12-2020	Mr. Akash Pushkar (Gate Academy Pune	41	PO12, PSO1
18	Awareness of Higher Education	Abroad career opportunities after engineering	7-12-2020	Mr. Shubham Sasane *(Elevitics, USA)*	38	PO12, PSO1

CAY m3 (2020-21):

Sr. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No of Students	Relevance to Pos, PSOs
1	Industry Software Test Cases, Black Box Testing, Categories of Testing	A career in Software Testing: Prerequisite & Opportunities	9-5-2021	Mr. Sushant Sankpal Quality Kiosks Mumbai	76	PO2, PO3, PO4, PSO1
2	IoT application transport methods	Online Guest lecture on IoT	20-03-21	Mr. VivekMohite,Genesis Tech Pvt Ltd, Pune	52	PO3, PO5, PSO1
3	Test Driven Development in Software Engineering	Online Guest lecture on Software Development	1-21-2021	Ms. AishwaryaMane ,Matrix Education Pune,	48	PO2, PO3, PO5, PSO1
4	Technical Skills in line with the requirements of the industry	Online Guest lecture on OOP concepts and interview techniques	03-04-2021	Mr. Bhosale Suraj	60	PO1, PO3, PO5, PSO1, PSO2

5	Technical Skills in line with the requirements of the industry	Online Guest lecture on Project Domains	27-03-2021	Mr. Desai Akshay	56	PO1, PO3, PO5, PSO1, PSO2
6	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on Automation Testing	28-11-2020	Mr. Aniket Mendgule	55	PO1, PO3, PO5, PSO1, PSO2
7	Awareness of Higher Education	Prepare yourself for Abroad opportunities (M.S./ M.B.A)	26-11-2020	Mr. Shekhar Bidwai, Director Chinmay Educational Consultancy, Pune	65	PO1, PO3, PO5, PSO1, PSO2
8	Awareness of Higher Education	How to Crack Gate Examination	5-12-2020	Mr.Sumit Acharya (Gate Academy Pune)	50	PO1, PO3, PO5, PSO1, PSO2
9	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on Java Framework	26-12-2020	Mr. Satish Udgave	40	PO1, PO3, PO5, PSO1, PSO2
10	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on Web Development	23-01-2021	Mr. Rohit Bhole	55	PO1, PO3, PO5, PSO1, PSO2
11	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on E-commerce SAP Hybris	20-02-2021	Ms. Poonam Bankar	45	PO1, PO3, PO5, PSO1, PSO2

12	Recent Trends & Industry Readiness	Online Alumni guest lecture on IT industry Overview, Automation Testing	27-03-2021	Ms. Yojana Gaikwad	55	PO6, PO8, PO9, PO10, PO11, PSO2
13	Technical Skills in line with the requirements of the industry	Online Alumni guest lecture on Software Development Cycle	24-04-2021	Ms.Priyanka Balaso Shinde	43	PO1, PO3, PO5, PSO1, PSO2
14	Technical Skills in line with the requirements of the industry	A career in Software Testing, Prerequisites, and Opportunities	09-05-2021	Mr. Sushant Sankpal	41	PO1, PO3, PO5, PSO1, PSO2
15	Technical Skills in line with the requirements of the industry	Online webinar on Intellectual property rights	28-05-2021	Dr. B.K Sarkar	33	PO1, PO3, PO5, PSO1, PSO2
16	Management & Leadership Skill	Importance of Management Studies and Career Opportunities.	16-05-2021	Mr. Omkar Tembe	38	PO9, PO10, PO11, PO12
17	Awareness of Higher Education	How to Crack Gate Examination	5-12-2020	Mr. Akash Pushkar (Gate Academy Pune	34	PO12, PSO1
18	Awareness of Higher Education	Abroad career opportunities after engineering	7-12-2020	Mr. Shubham Sasane *(Elevitics, USA)*	35	PO12, PSO1

2.2. Teaching - Learning Processes (100)

2.2.1. Describe Processes followed to improve the quality of Teaching & Learning (25)

A. Adherence to Academic Calendar (03)

- The institute adheres to the academic calendar of DBATU, Lonere. The academic calendar constitutes the academic activities of the institute and the department.
- The institute prepares its academic calendar after the university academic calendar announcement at the beginning of each semester.
- In line with Institute academic calendar, the department prepares an annual activity calendar separately and shares it with the faculties and students
- All facultiesand students follow the department activity calendar
- It includes the following details:

  i. Schedule of Guest lecturers, Industrial visits, Cultural Events, and Sports activities organized by the department.
  ii. Commencement of Semester
  iii. Exam form filling date
  iv. Internal Examination Schedule
  v. Tentative dates of commencement of University practical and theory end semester examinations.
  vi. Dates of public holidays

- Sample University, Institute, Department academic calendar is shown below

डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ, लोणेरे

Dr. Babasaheb Ambedkar Technological University, Lonere

(Established under Act No XXIX of 2014 by government of Maharashtra)

विद्याविहार, लोणेरे-सवाल-४०२ १०३ (महाराष्ट्र) Vidyavihar, Lonere - Raigad 402 103 (Maharashtra)

Tel: (02140) 275142 Student Helpline: 02140-275212

Website: www.dbatu.ac.in, E-mail: registrar@dbatu.ac.in

Dr. Bhagwan F. Jogi
Registrar

डॉ. भगवान फ. जोगी
कुलसचिव

Dated: 12/ 08/2022

Academic Calendar 2022-23 (Odd Semester) (Engineering)

Sl. No.	Activity	Commencement Date	Concluding Date	Total Days	Engineering
1	Admissions: B.Tech. Second, Third and Final Year; M.Tech. Second year.	September 01, 2022	September 10, 2022	10	UG and PG
2	Commencement of Classes of Second, Third and Final Year	September 01, 2022	December 19, 2022	110	UG and PG
3	Dissertation Examination of the Academic Year 2021-2022	September 01, 2022	September 10, 2022	10	PG
4	Mid-Semester Examinations	October 12, 2022	October 21, 2022	09	UG and PG
5	Submission of Dissertation Proposal to University	October 18, 2022	October 21, 2022	04	PG
6	Display of Mid-Semester Examination Marks	October 28, 2022	October 31, 2022	04	UG and PG
7	Scrutiny of Master's Level Dissertation Work Proposal	November 01, 2022	November 03, 2022	03	PG
8	Exam Form Filling for Regular & Supplementary Examinations	November 01, 2022	November 08, 2022	08	UG and PG
9	Exam Form Filling for Regular & Supplementary Examinations with Late Fee	November 09, 2022	November 15, 2022	07	UG and PG
10	University Tech Fest 2021	November 17, 2022	November 19, 2022	03	UG and PG
11	End of Classes	–	December 19, 2022	110	UG and PG
12	Practical/Project/Seminar Examinations	December 20, 2022	December 23, 2022	04	UG and PG
13	Uploading Internal, Mid Semester, Practical, Project and Seminar marks on University portal	December 22, 2022	December 24, 2022	03	UG and PG
14	End Semester Regular & Supplementary Examination	December 26, 2022	January 21, 2023	26	UG and PG
15	Internship/Industrial Training#				
16	Vacation	January 1, 2023	January 20, 2023	20	Faculty and Staff

डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ, लोणेरे

Dr. Babasaheb Ambedkar Technological University, Lonere

(Established under Act No XXIX of 2014 by Government of Maharashtra)

विद्याविहार, लोणेरे-सवाल-४०२ १०३ (महाराष्ट्र) Vidyavihar, Lonere - Raigad 402 103 (Maharashtra)

Tel : (02140) 275142 Student Helpline : 02140-275212

Dr. Bhagwan F. Jogi
Registrar

डॉ. भगवान फ. जोगी
कुलसचिव

DBATU BS/(AC / 2022-23)/A Dated: 27/10/2022

Academic Calendar–UG Sem. VI & VIII Revised(AY 2022–23)

Sr. No.	Activity	Commencement Date	Concluding Date	Total Days	Level
1	Commencement of Classes	20th Feb 23	30th May 23	100	UG
2	Mid Semester Examination	10th April 2023	15th Apr 23	05	UG
3	End of Classes		30th May 23		UG
4	End Semester Examination	1st June 23	10th June 23	10	UG
5	Practical/Project/Seminar Examination	11th June 23	20th June 23	03	UG
6	Result Declaration		15th July 23		
7	Commencement of Classes for Next semester	20th July 23			
Holiday	18 Feb – Mahashivratri 19 Feb – Chatrapati Shivaji Maharaj Jayanti 7 March – Dhulivandan 22 March – Gudi Padwa 30 March – Ram Navami 4 April – Mahavir Jayanti 7 April – Good Friday		14 April – Dr Babasaheb Ambedkar Jayanti 22 April – Ramzan Eid 1 May – Maharashtra Din 5 May – Buddha Pournima 29 June – Bakari Eid		

Dr. B. F. Jogi
Registrar
REGISTRAR
Dr. Babasaheb Ambedkar Technological University
LONERE 402 103
Tal. Mangaon, Dist. Raigad, (Maharashtra)

Copy submitted for information: Office of Hon'ble Vice-Chancellor

Copy to:
1. All heads of departments
2. Affiliated Institutes
3. Academic Section
4. Controller of Examinations

Web Site : www.dbatu.ac.in E-mail: registrar@dbatu.ac.in

Fig. B.2.2.1a.: Academic calendar of the University 2022-23

Samarth Educational Trust's
Arvind Gavali College of Engineering, Satara
Academic Calendar 2022-23
Term-I

Samarth Educational Trust's
Arvind Gavali College of Engineering, Satara
Academic Calendar 2022-23
Term-II

Fig. B.2.2.1b.:Institute Academic Calendar 2022-23

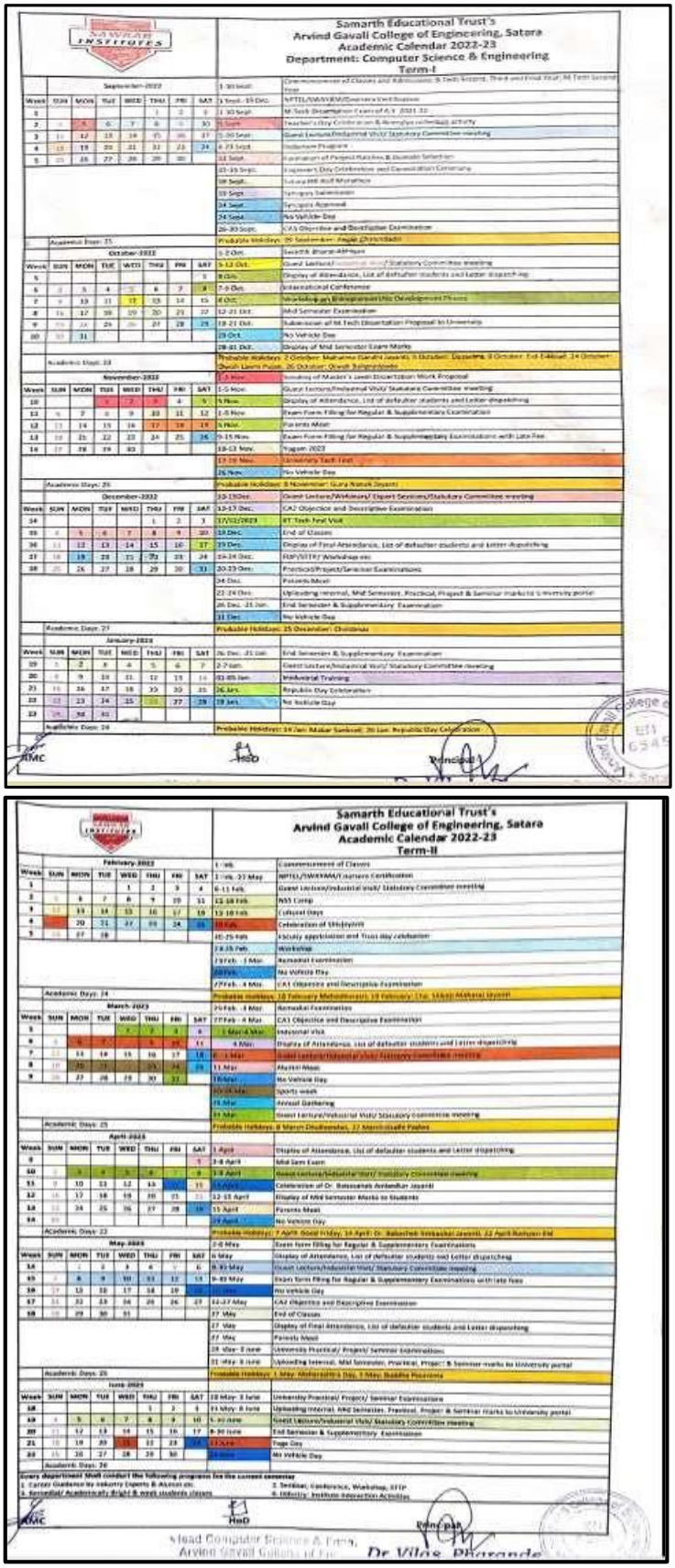


Fig. B.2.2.1c.:Department Academic Calendar 2022-23

B. Use of various instructional methods and pedagogical initiatives (03)

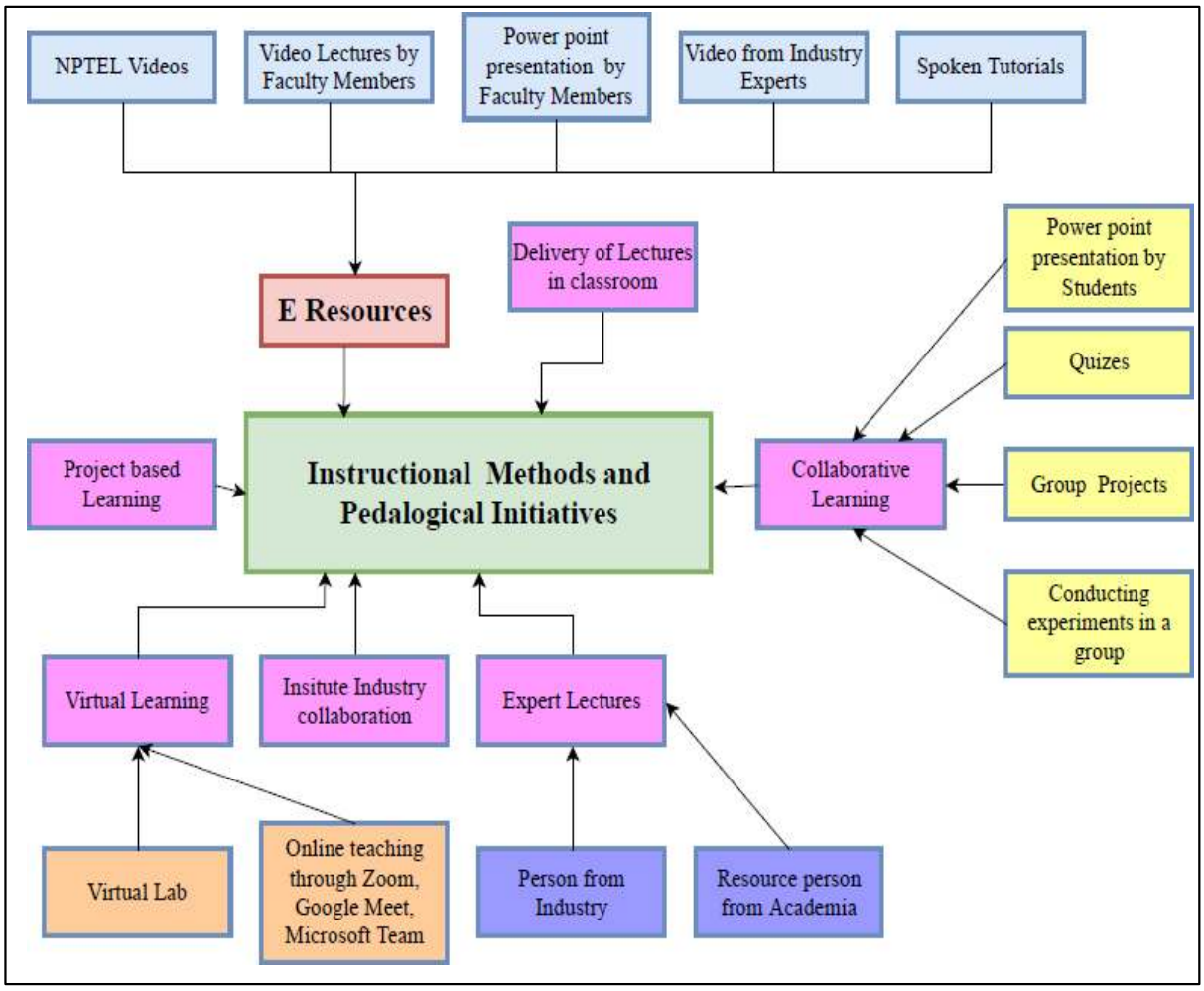


Fig. B.2.2.1d.:Instructional methods & pedagogy

Delivery

Teachers employ a variety of tools in the classroom, including intelligent interactive panel, whiteboards, projectors, and black board. During lectures, each student is permitted to ask any question about the subject. Faculty members answer questions from students that they are asked during lectures.

Use of e-resources:

For all courses, professors use powerpoint presentations to help students understand the concept. Additionally, they use videos from many MOOC platforms, including those from the National Programme on Technology Enhanced Learning (NPTEL), MIT Open-Source Video, and videos from Industry Experts.

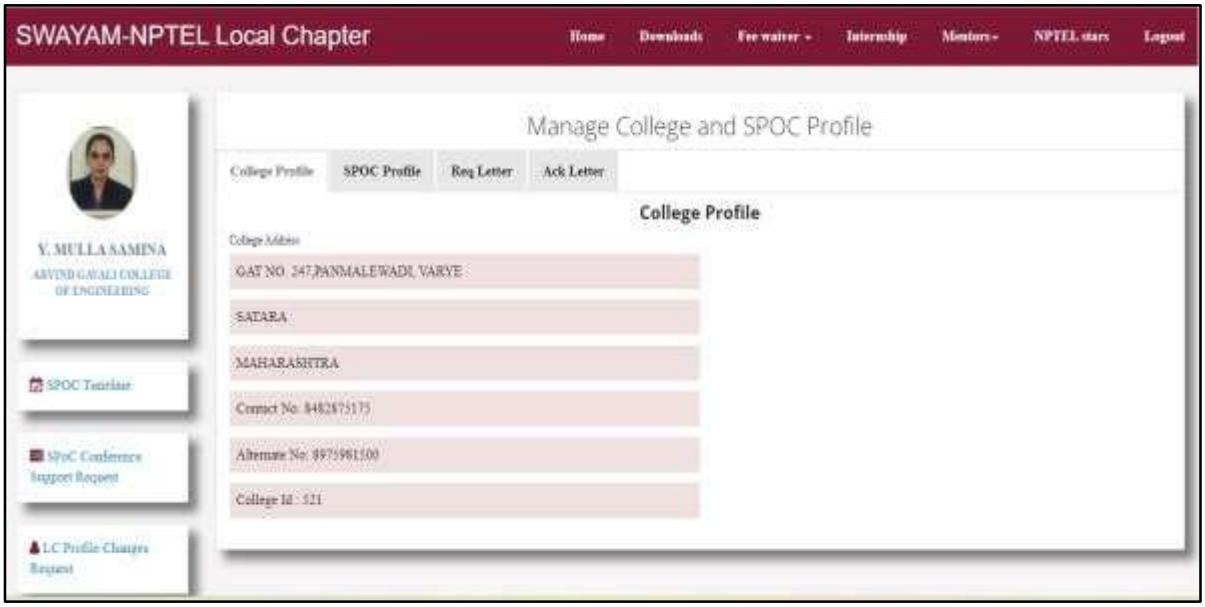


Fig. B.2.2.1e.Swayam NPTEL Local Chapter

Collaborative Learning:

- Collaborative learning is the educational strategy that makes use of groups to improve learning by cooperating. Learners who are in groups of two or more collaborate to solve issues, finish tasks, or understand new ideas. It encourages hearing other people's points of view, listening to criticism and suggestions, and improving cooperation while also fostering public speaking and active listening abilities.
- The curriculum covers topics including seminars, mini projects, and major projects, where groups of three to five students are created and a mentor is assigned to oversee and guide the progress of the work.
- The approaches utilized for group learning are as follows:
  1. Small modules are divided into project work, and a subset of students work on various modules.
  2. In groups of 3-5 students, preparation activities for seminars and PowerPoint presentations were also carried out.
  3. In a group of 3-5 students, laboratory experiments are carried out for a subject like IoT.
  4. Moodle is a significant ICT project of the computer department that is helpful for group learning. Quiz, assignments, and resource sharing are among the many activities carried out online.

Fig. B.2.2.1f.:Moodle Web

Project Based Learning:

- During the period of study, many real-time projects are given to the students on the latest technologies and they are guided by faculty members. In the seventh and eighth semesters, a final year project is developedby a group of students. For some academic courses, students have been encouraged to do some projects

Fig. B.2.2.1 g Project Demonstartion

Expert Lectures:

- Experts from Industries and renowned academic institutions are regularly invited to deliver Guest/Expert Lectures for our students

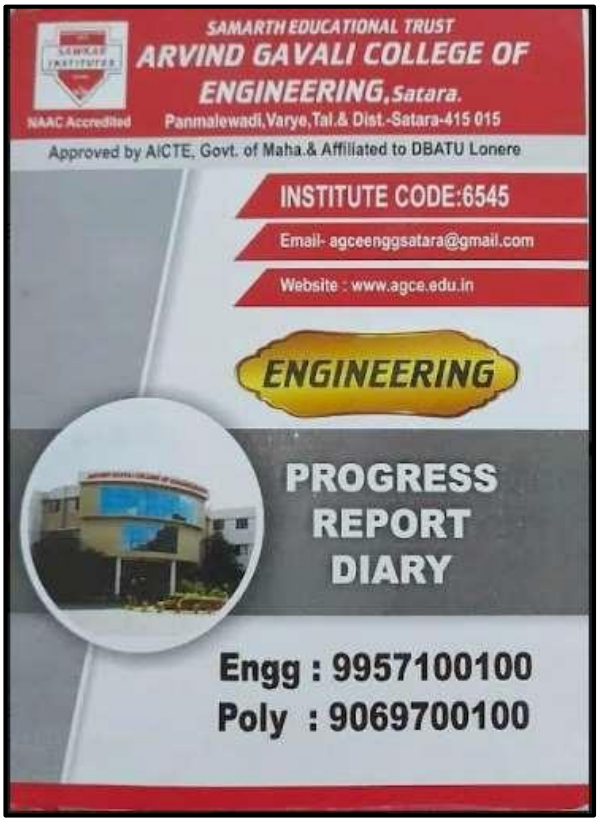
Virtual Learning:

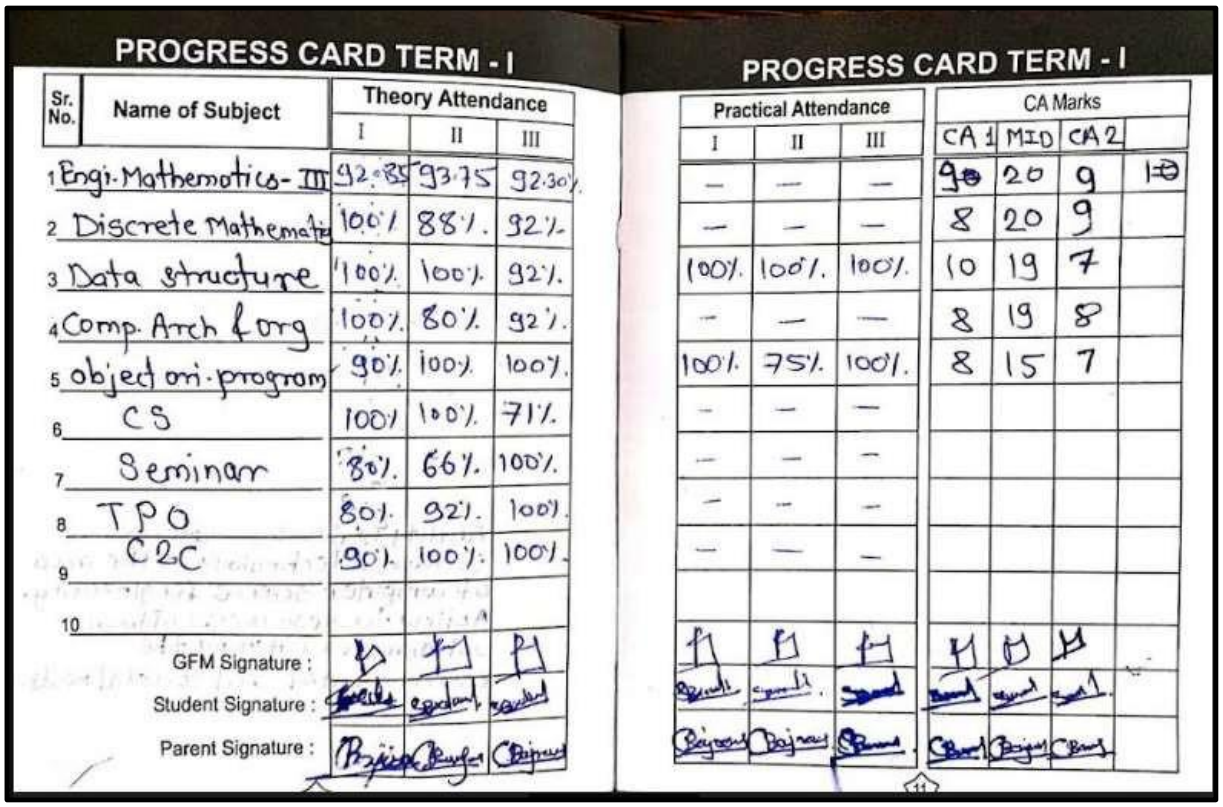
- Virtual laboratories: Faculty members use virtual laboratories of different IITs to conduct some experiments beyond the syllabus of the respective laboratories. Instruction manuals about the conduction of experiments are given in virtual labs,students follow these instruction materials to complete the experiments.
- Online teaching through MS Teams, Google Meet, and Zoom: Faculty members use software like MS team, Google meet, zoom,etc. to take lectures, tutorials, and laboratories online. Some faculty members also run their own created video lectures, NPTEL, and YouTube videos during online lectures using MS teams, Google meets, and zoom.

Fig. B.2.2.1 h :Online Learning on Google Meet

C. Methodologies to support weak students and encourage bright students (04)

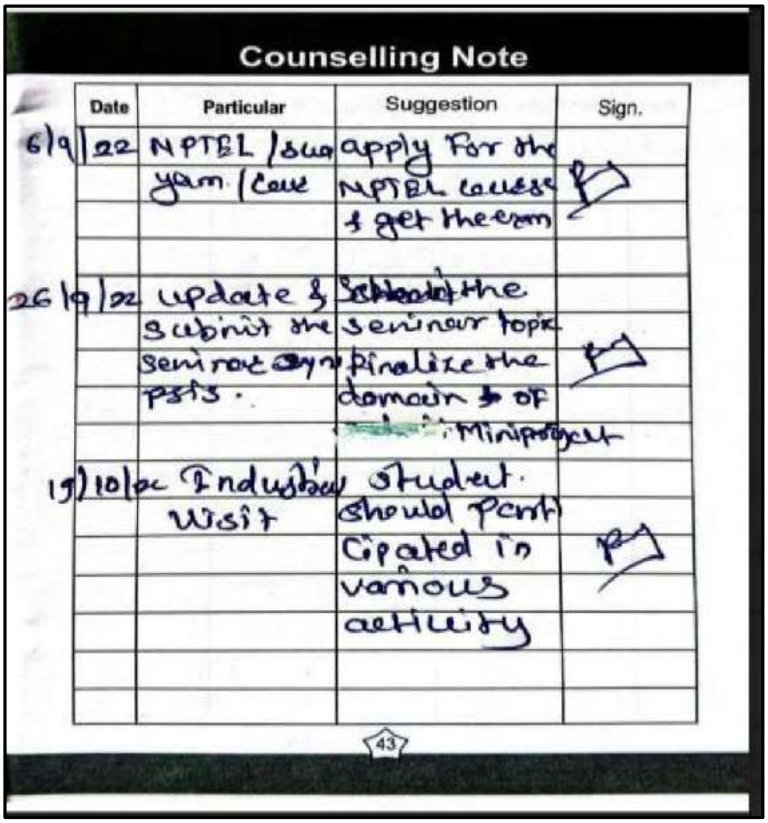
Departments have a proper mechanism to support the weak-performing student as well as encourage bright students. Identification of weak and bright students is carried out by considering their previous academic performance and feedback from Guardian Faculty members. For every batch of 20 students, one faculty is appointed as a guardian faculty member (GFM) who takes care of all these students as a guardian. This faculty member listens to all personal problems of student, council them, and help them to sort out their issues. Based on counseling department identifies areas of improvement and do the necessary plan which involves remedial classes, improvement test, and extra assignment, this enables the weak students to participate and perform better in understanding the concepts, internal assessment, and university exams.





PROGRESS CARD TERM - I

Sr. No.	Name of Subject	Theory Attendance I	Theory Attendance II	Theory Attendance III	Practical Attendance I	Practical Attendance II	Practical Attendance III	CA Marks CA 1	CA Marks MID	CA Marks CA 2	
1	Engi. Mathematics- III	92.85	93.75	92.30%	—	—	—	9	20	9	10
2	Discrete Mathematics	100%	88%	92%	—	—	—	8	20	9	
3	Data structure	100%	100%	92%	100%	100%	100%	10	19	7	
4	Comp. Arch & org	100%	80%	92%	—	—	—	8	19	8	
5	object ori. program	90%	100%	100%	100%	75%	100%	8	15	7	
6	CS	100%	100%	71%	—	—	—				
7	Seminar	80%	66%	100%	—	—	—				
8	TPO	80%	92%	100%	—	—	—				
9	C2C	90%	100%	100%	—	—	—				
10											
	GFM Signature :										
	Student Signature :										
	Parent Signature :										



Counselling Note

Date	Particular	Suggestion	Sign.
6/9/22	NPTEL / Sua yam / Cour	apply for the NPTEL course & get the exam	
26/9/22	update & submit the seminar syn psis.	Schedule the seminar topic finalize the domain of Miniproject	
19/10/22	Industrial visit	student should participated in various activity	

Fig. B.2.2.1 i : Student Progress Diary 2022-23

SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

NAAC Accredited

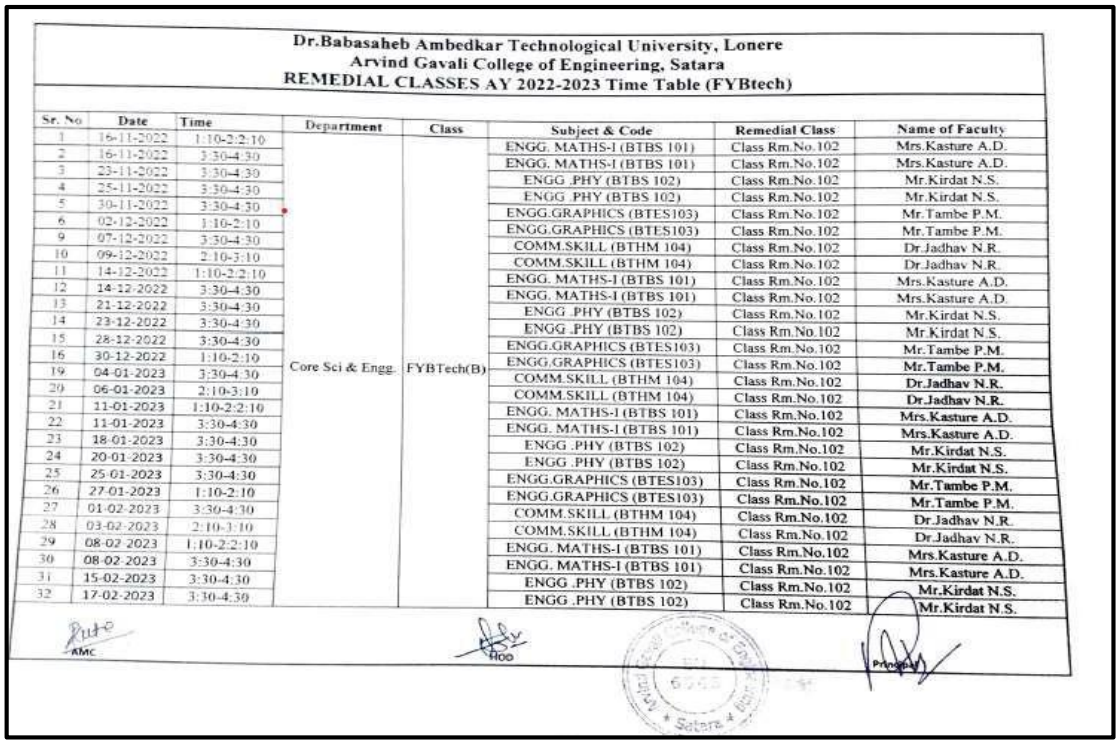
Remedial Classes For

FYBTECH AY 2022-23

- Remedial classes for the students have been planned in the timetable.
- Remedial Classes will conducted from 14 Nov 2022 to 28 Feb 2023 .
- Weekly 2Hrs of Classroom Coaching, practice sessions and doubt solving was done during semester I.
- All doubts of students were cleared by the subject teacher.
- Attendance was maintained for the same.

AMC HOD Principal

Fig. B.2.2.1 j : Notice of Remedial Classes



Dr.Babasaheb Ambedkar Technological University, Lonere
Arvind Gavali College of Engineering, Satara
REMEDIAL CLASSES AY 2022-2023 Time Table (FYBtech)

Sr. No	Date	Time	Department	Class	Subject & Code	Remedial Class	Name of Faculty
1	16-11-2022	1:10-2:2:10	Core Sci & Engg.	FYBTech(B)	ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
2	16-11-2022	3:30-4:30			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
3	23-11-2022	3:30-4:30			ENGG .PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
4	25-11-2022	3:30-4:30			ENGG .PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
5	30-11-2022	3:30-4:30			ENGG.GRAPHICS (BTES103)	Class Rm.No.102	Mr.Tambe P.M.
6	02-12-2022	1:10-2:10			ENGG.GRAPHICS (BTES103)	Class Rm.No.102	Mr.Tambe P.M.
9	07-12-2022	3:30-4:30			COMM.SKILL (BTHM 104)	Class Rm.No.102	Dr.Jadhav N.R.
10	09-12-2022	2:10-3:10			COMM.SKILL (BTHM 104)	Class Rm.No.102	Dr.Jadhav N.R.
11	14-12-2022	1:10-2:2:10			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
12	14-12-2022	3:30-4:30			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
13	21-12-2022	3:30-4:30			ENGG .PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
14	23-12-2022	3:30-4:30			ENGG .PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
15	28-12-2022	3:30-4:30			ENGG.GRAPHICS (BTES103)	Class Rm.No.102	Mr.Tambe P.M.
16	30-12-2022	1:10-2:10			ENGG.GRAPHICS (BTES103)	Class Rm.No.102	Mr.Tambe P.M.
19	04-01-2023	3:30-4:30			COMM.SKILL (BTHM 104)	Class Rm.No.102	Dr.Jadhav N.R.
20	06-01-2023	2:10-3:10			COMM.SKILL (BTHM 104)	Class Rm.No.102	Dr.Jadhav N.R.
21	11-01-2023	1:10-2:2:10			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
22	11-01-2023	3:30-4:30			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
23	18-01-2023	3:30-4:30			ENGG .PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
24	20-01-2023	3:30-4:30			ENGG .PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
25	25-01-2023	3:30-4:30			ENGG.GRAPHICS (BTES103)	Class Rm.No.102	Mr.Tambe P.M.
26	27-01-2023	1:10-2:10			ENGG.GRAPHICS (BTES103)	Class Rm.No.102	Mr.Tambe P.M.
27	01-02-2023	3:30-4:30			COMM.SKILL (BTHM 104)	Class Rm.No.102	Dr.Jadhav N.R.
28	03-02-2023	2:10-3:10			COMM.SKILL (BTHM 104)	Class Rm.No.102	Dr.Jadhav N.R.
29	08-02-2023	1:10-2:2:10			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
30	08-02-2023	3:30-4:30			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
31	15-02-2023	3:30-4:30			ENGG .PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
32	17-02-2023	3:30-4:30			ENGG .PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.

AMC HOD Principal

Fig. B.2.2.1 k : Remedial Classes Time Table

Brighten students are encouraged to learn content beyond thesyllabus through MOOC platforms NPTEL courses, Coursera, also MIT Open-source online education. Institute has a separate NPTEL Local Chapter (LC-ID 521), through which various advanced courses in various sectors like project management, software engineering,etc. aremade available to bight students.

This enables the bright students:

a) Update themselves with the latest tools and technologies

b) Demonstrate critical thinking and take up innovative projects

c) Taking up higher studies in the field of research and development enhances their skill andmanagerial quality to become successful entrepreneurs/employees.

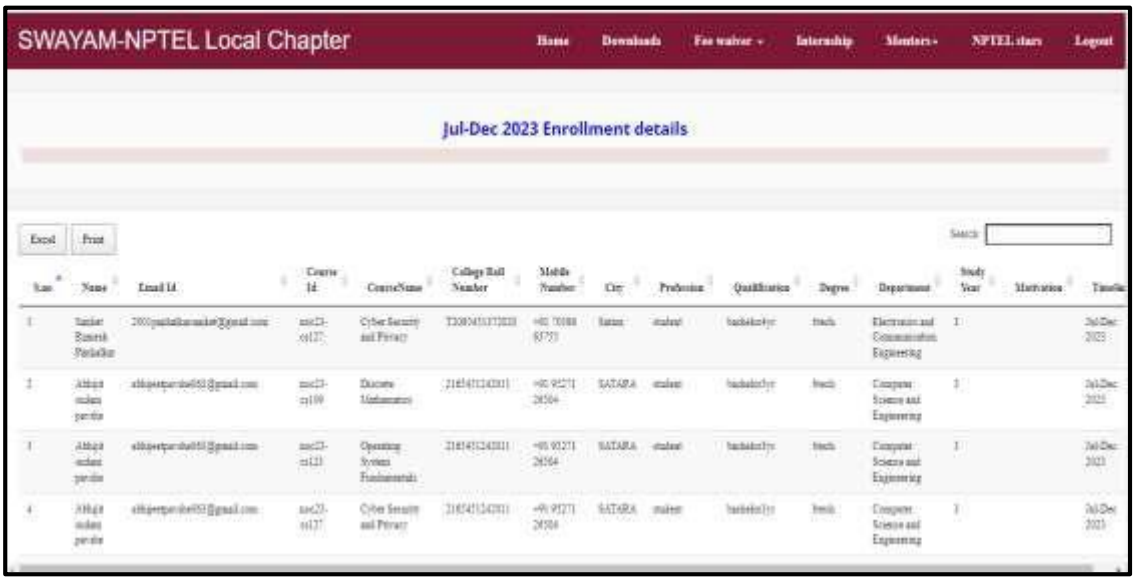


Fig. B.2.2.1 l : NPTEL Enrollment

Fig. B.2.2.1 m :NPTEL Certificate

Department announces every year the "Best outgoing student" of the program. Selection iscarried out based on one's continuous quality performance in all sorts of activities which include curricular, extracurricular, internships, competitions, innovative projects undertaken and completed, MOOC courses studied, and university marks, following table shows the last three years' best outgoing students.

Table B.2.2.1a: Best outgoing student

Sr. No.	Name of Student	Academic Year
1	Ms. Rupali Mulik	2022-23
2	Mr. Vishvanath Metkari	2021-22
3	Ms. Swati Jagtap	2020-21

D. Quality of classroom teaching (03)

- Teachers are properly assigned courses and practical sessions before the semester even begin, which enhances both the quality of the information students get and their performance.
- Before the start of the semester, every faculty member prepares lesson plans, session plans, and lecture notes. They then post the study materials on MOODLE.
- Faculty members use common textbooks to prepare their notes. When creating the session plan, chapters from these textbooks are emphasized so that students are compelled to consult them.
- To keep students' interest throughout lectures, professors employ brainteasers, quizzes, and engaging movies and PowerPoints linked to the subject.
- Various educational efforts and instructional techniques & tools are used to engage student in learning

Fig. B.2.2.1 n. :Student's Learning on Intelligent Interactive Panel

E. Conduct of experiments:

All laboratories of the computer science & engineering department are equipped with enough number of computers with essential software.

1. Each student performs experiments on anindividual computer.
2. All laboratory experiments have accompanying laboratory manuals.
3. Before the laboratory session, students are urged to read up on the theory underlying the experiments and the steps necessary to carry them out.
4. A concerned professor explains how the experiment was conducted.
5. It is suggested that students consult laboratory manuals for assistance.
6. A faculty member supervises and assists each student while they undertake experiments.
7. The laboratory performance record is to be submitted by the students for evaluation.
8. Internal marks are given according to the experiment's understanding, neatness, and timely journal submission.

Fig. B.2.2.1 o. :Laboratory Session

F. Continuous Assessment in the laboratory (03)

Laboratory Evaluation:

A continuous assessment system is implemented for the assessment of laboratory work. Assessment is carried out for each student experiment in the laboratory as per demonstrated by the course in charge. This assessment is done based on

1. Timely Submission
2. Neatness
3. Understanding

Following is a sample laboratory work assessment sheet.

SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING AGCE NAAC Accredited

Panmalewadi, Varye, Tal.& Dist.-Satara - 415 015

Approved by AICTE, New Delhi, Recognised by Govt. of Maharashtra, Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere

Continuous Assessment Sheet (CAS)

Name of Candidate: manali m gosavi Class & Department: Computer Science.

Roll No: 216545129012 Subject: operating system.

Exp No.	Exp Name	Date of Conduction	Laboratory Assessment				
			Timely submission (02)	Neatness (04)	Understanding (04)	Total (10)	Faculty Sign with Date
1.	Hands on unix commands	10/9	2	3	3	8	
2.	Shell Programming for file handling	29/09	2	4	3	9	
3.	shell script programming using commands	8/05	2	4	3	9	
4.	Implementation of various CPU scheduling algo.	15/05	2	3	3	8	
5.	Implementation of various page replacement algo.	22/05	2	4	3	9	
6.	(concurrent Process) use of Thread Processes system	29/05	2	3	3	8	
7.	Studying Pthread and implement a program	5/06	2	4	5	10	
	CA1	Average marks of laboratory experiment (10)					
8.	Implementation using JD reads as compared with	12/06	2	3	4	9	
9.	Hyper quick sort, merge sort, travelling	19/06	2	3	3	8	
10.	Implementation of synchronization facilities	26/06	2	3	3	8	
11.	Implementation of producer-consumer Bounce	26/06	2	4	3	9	
12.	Implementation of various memory allocation	3/07	2	3	3	8	
13.	scheduling algorithm	3/07	2	4	3	9	
14.	Kernel reconfiguration and device drivers and system administration of OS.	3/07	2	4	3	9	
	CA2	Average marks of laboratory experiment (10)					

	Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)
CA1	9	03	7	4	23

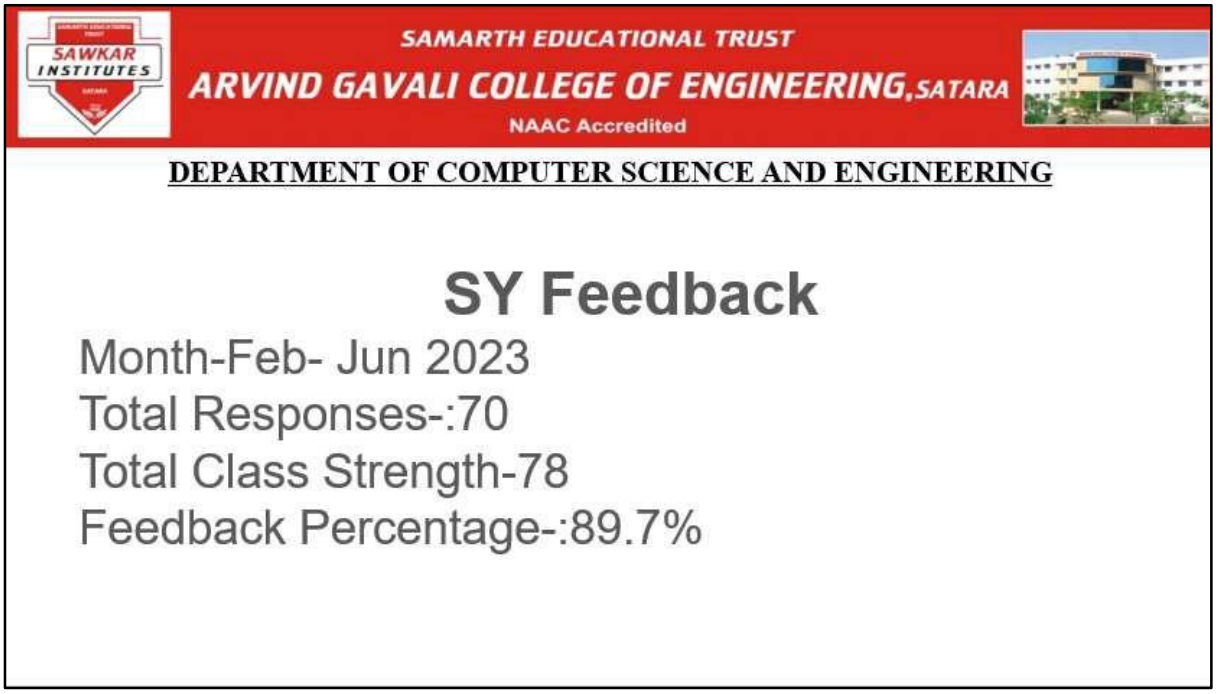
	Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)
CA2	9	03	8	3	23

Student Sign. Faculty Sign.

Fig.2.2.1 p. Laboratory Evaluation Sheet

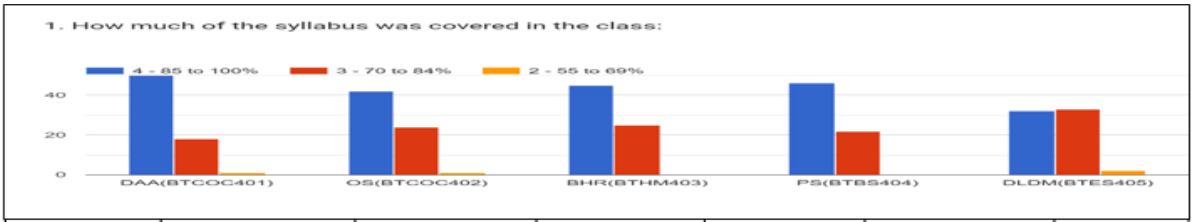
G. Student feedback of teaching-learning process and actions taken (06)

The department collects student feedback to identify areas for development. The Head of the Department (HoD) also examines feedback to evaluate faculty performance. Before course completion, a prescribed structure is used to collect student feedback on the course and the faculty member instructing it (attached below).

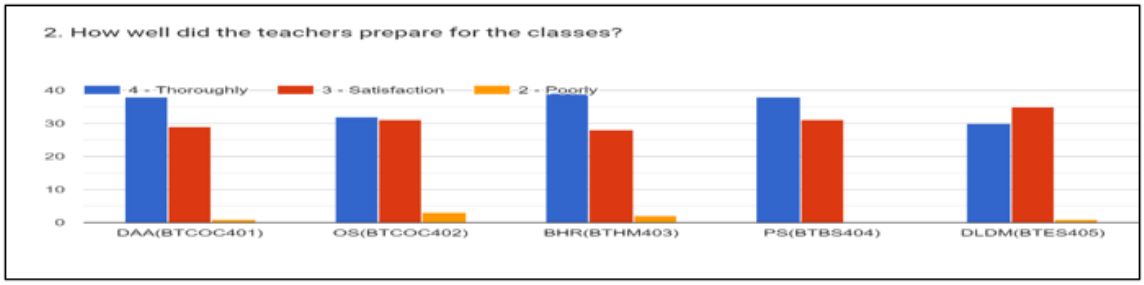


Faculty-Subject Distribution

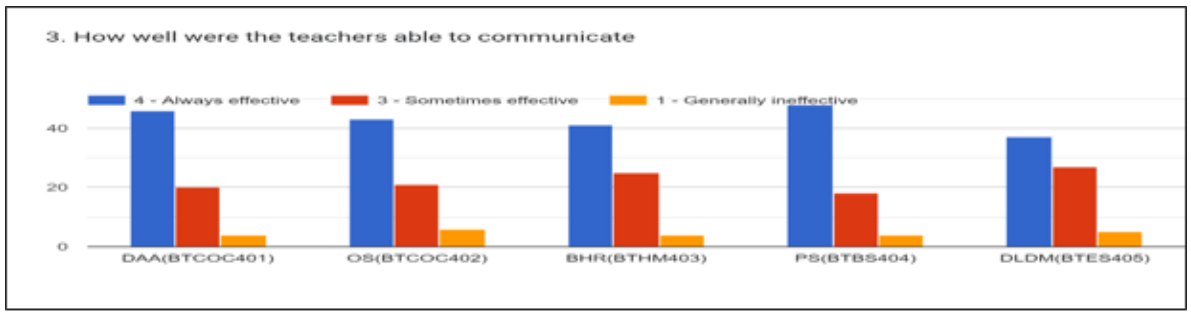
Sl.No	Subject	Abb.	Name of the Faculty	Abb.
1	DAA(BTCOC401)	DAA	Mrs. Mandhare R.M.	MRM
2	OS(BTCOC402)	OS	Mr. Gujar V.B.	GVB
3	BHR(BTHM403)	BHR	Mr. Dixit D.C.	DDC
4	PS(BTBS404)	PS	Ms Mulla S.Y.	MSY
5	DLDM(BTCOE305)	DLDM	Dr Shaha M.M	SMM



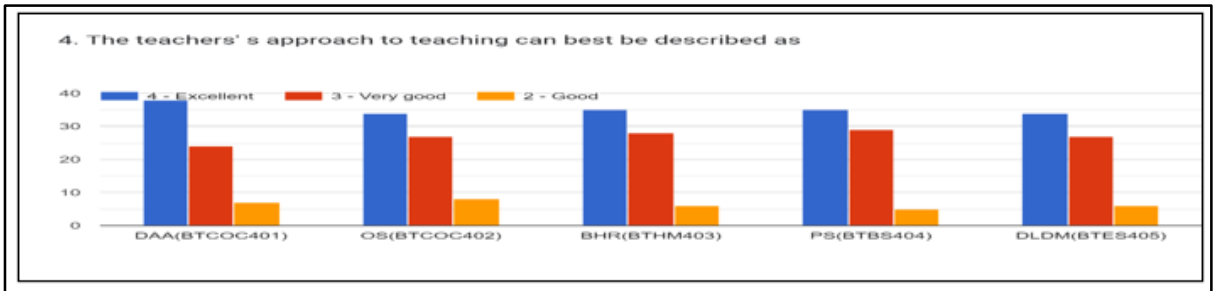
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
85 to 100%	50	43	46	46	34	62.57%
70 to 84%	18	25	24	24	34	35.71%
55 to 69%	2	2	0	0	2	1.72%
Total	70	70	70	70	70	100%



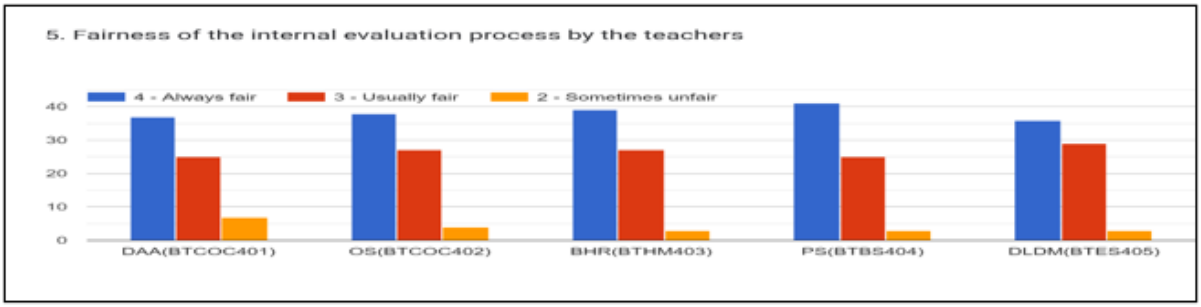
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Thoroughly	40	35	40	38	34	53.43%
Satisfaction	29	31	28	32	35	44.29%
Poorly	1	4	2	0	1	2.28%
Total	70	70	70	70	70	100%



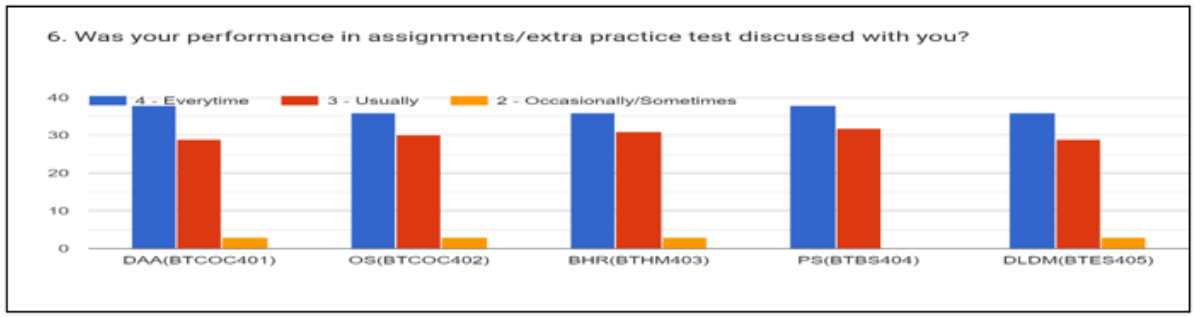
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Always Effective	45	44	40	48	38	61.43%
Sometimes Effective	20	20	25	18	26	31.14%
Generally ineffective	5	6	5	4	6	7.43%
Total	70	70	70	70	64	100%



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE305)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Excellent	40	34	35	36	37	52
Very Good	24	28	29	29	27	39.14
Good	6	8	6	5	6	8.86
Total	70	70	70	70	64	100%

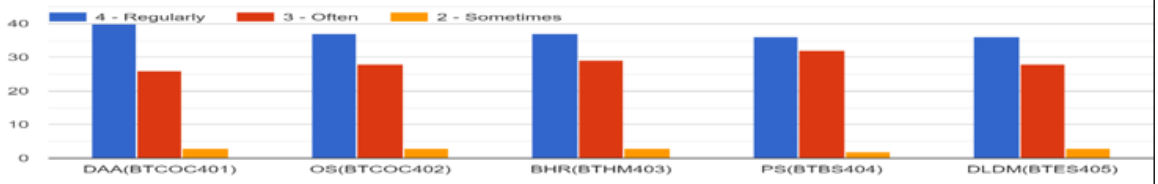


Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Always Fair	38	39	40	41	37	55.71%
Usually Fair	25	27	26	25	29	37.72%
Sometimes Unfair	7	4	4	4	4	6.57%
Total	70	70	70	70	64	100%



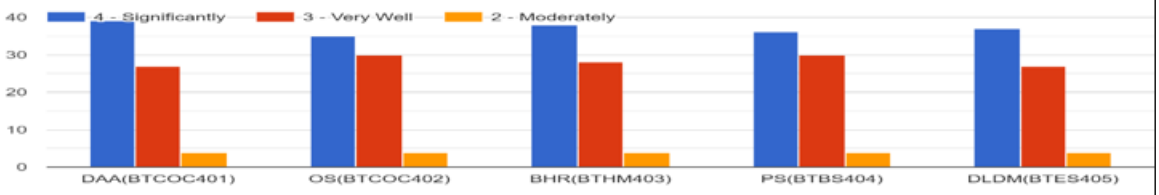
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE305)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Everytime	38	35	35	38	38	52.57%
Usually	29	30	30	32	28	42.57%
Ocassionally/ sometimes	3	5	5	0	4	4.86%
Total	70	70	70	70	64	100%

7. The faculty takes active interest in promoting internship, student exchange, field visit opportunities for students. *

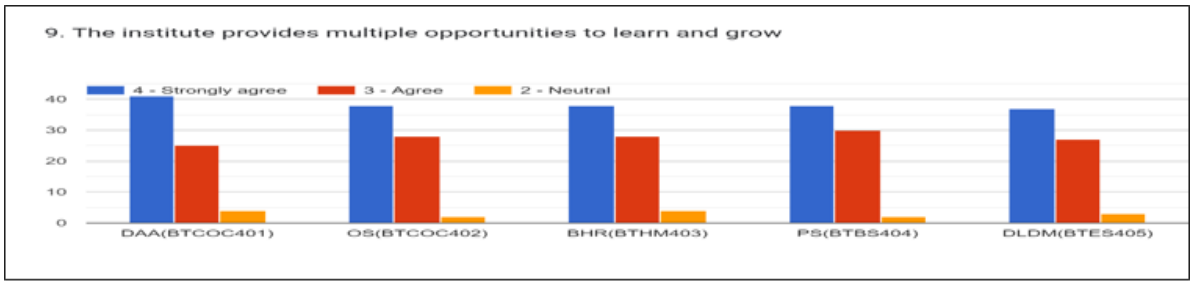


Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M .	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Regularly	40	38	37	35	38	53.71%
Often	26	28	29	32	28	40.83%
Sometimes	4	4	4	3	4	5.46%
Total	70	70	70	70	70	100%

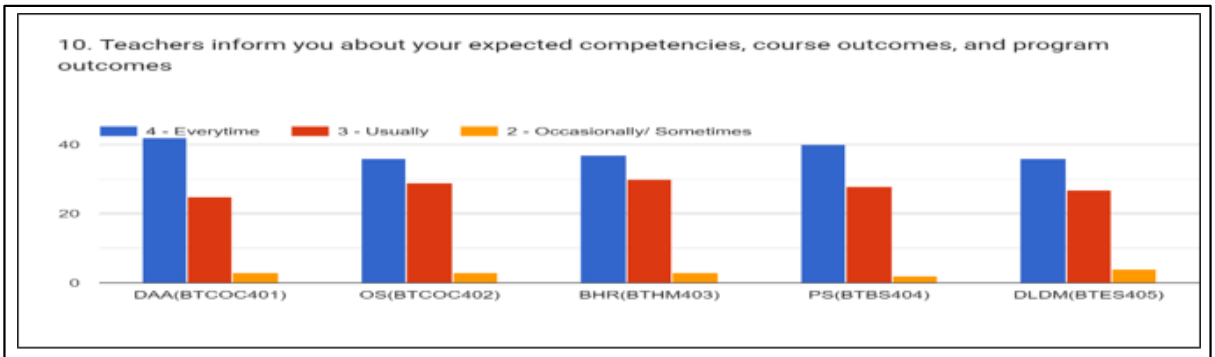
8. The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.



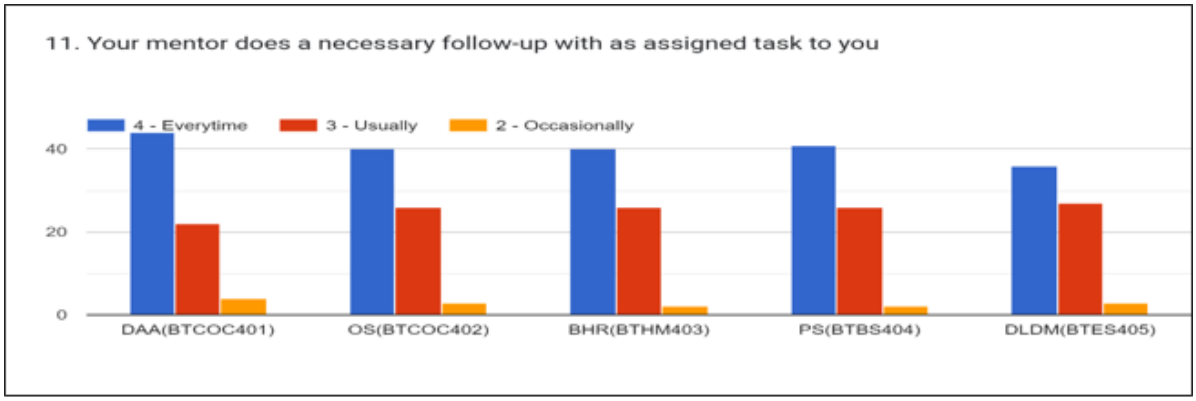
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Significantly	40	35	38	36	39	53.71%
Very Well	26	31	28	30	27	40.58%
Moderately	4	4	4	4	4	5.71%
Total	70	70	70	70	70	100%



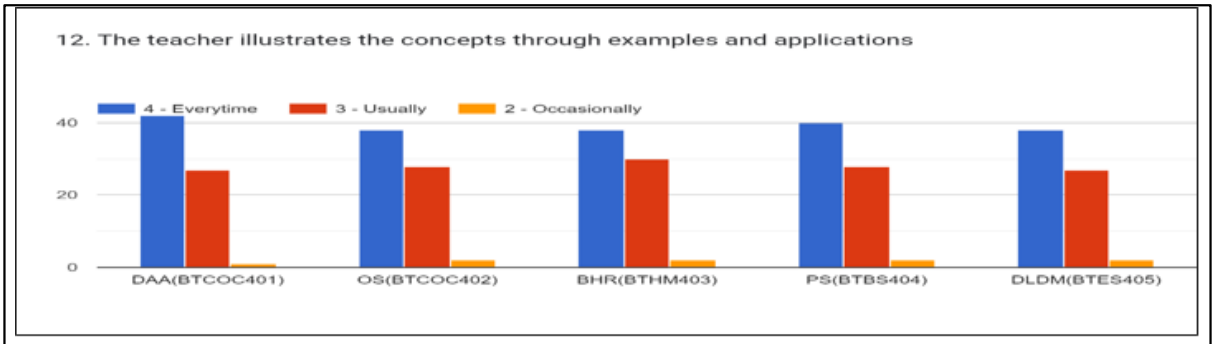
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Strongly Agree	40	38	38	38	39	55.14%
Agree	26	30	28	30	27	40.29%
Neutral	4	2	4	2	4	4.57%
Total	70	70	70	70	70	100%



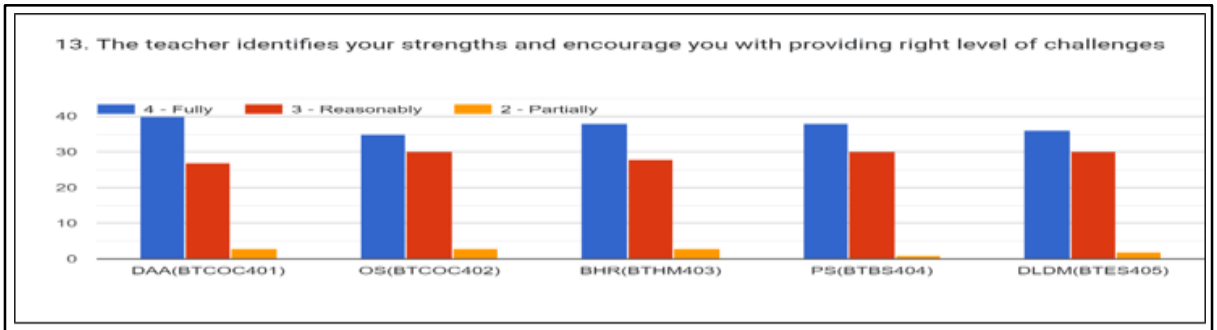
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Everytime	42	36	36	40	36	54.28%
Usually	24	28	30	26	26	38.29%
Ocassionally/ sometimes	4	6	4	4	8	7.43%
Total	70	70	70	70	70	100%



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Every time	44	40	40	40	38	57.71%
Usually	22	25	25	25	28	35.72%
Ocassionally	4	5	5	5	4	6.57%
Total	70	70	70	70	70	100%



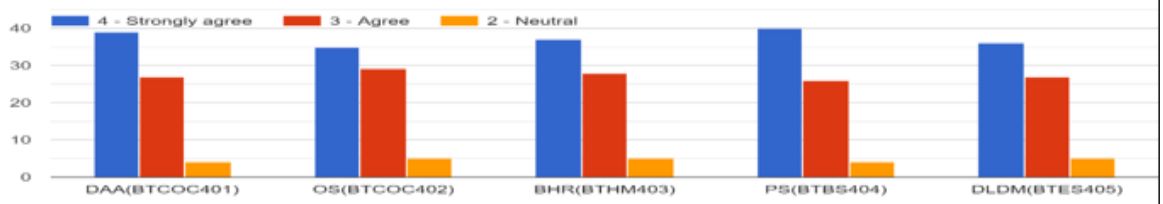
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M .	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Everytime	42	38	38	40	38	56%
Usually	26	28	30	28	28	40%
Ocassionally	2	4	2	2	4	4%
Total	70	70	70	70	70	100%



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Fully	40	35	38	38	36	53.43%
Reasonably	26	30	28	30	30	41.14%
Partially	4	5	4	2	4	5.43%
Total	70	70	70	70	70	100%

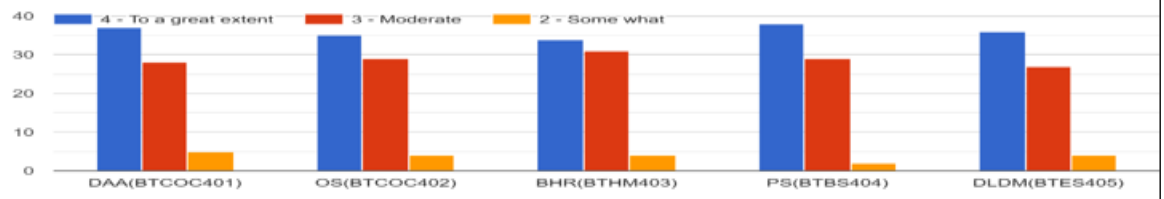
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Everytime	40	33	36	37	35	51.71%
Usually	25	33	30	29	30	42%
Ocassionally	5	4	4	4	5	6.29%
Total	70	70	70	70	70	100%

15. The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.

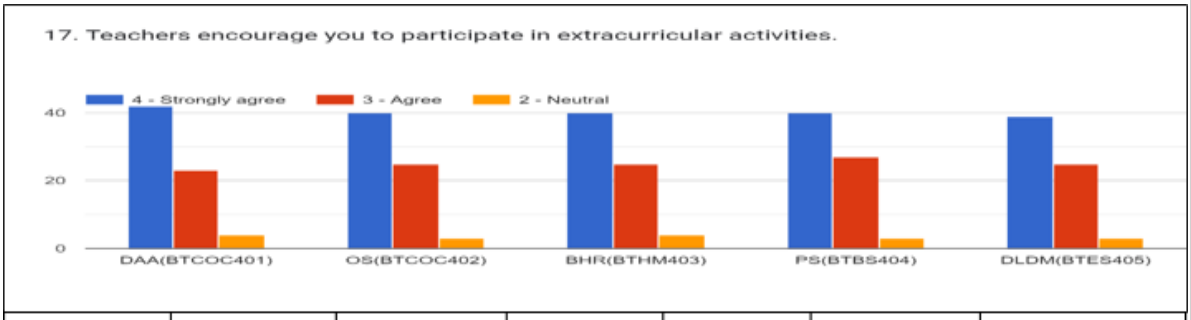


Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Strongly Agree	40	35	37	40	36	53.71%
Agree	25	30	27	25	28	38.58%
Neutral	5	5	6	5	6	7.71%
Total	70	70	70	70	70	100%

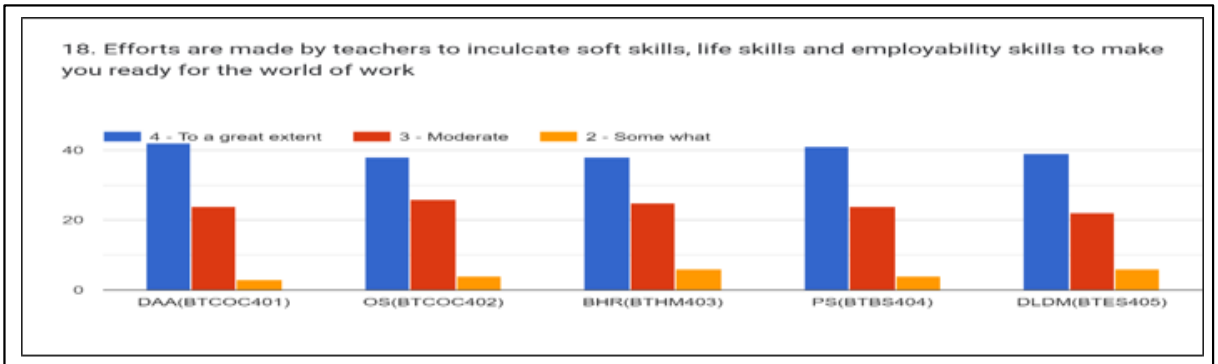
16. The institute/ teachers use student-centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences



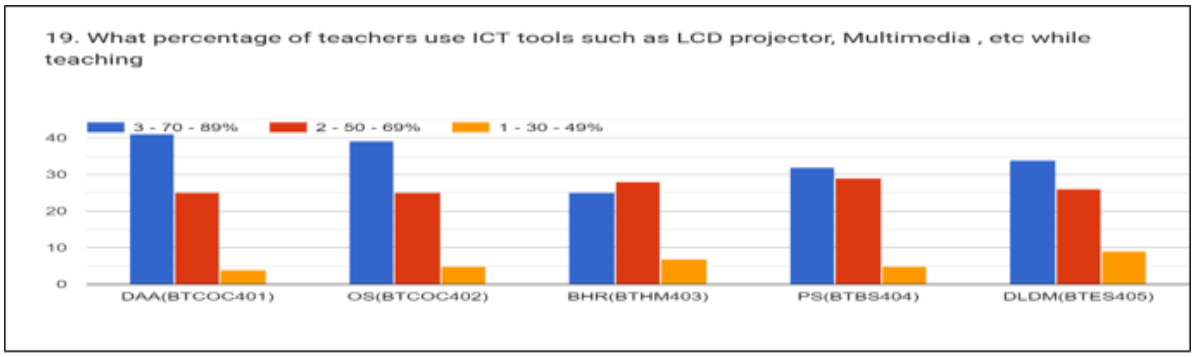
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
To a great extent	38	35	35	38	37	52.28%
Moderate	27	30	30	28	28	40.86%
Some what	5	5	5	4	5	6.86%
Total	70	70	70	70	70	100%



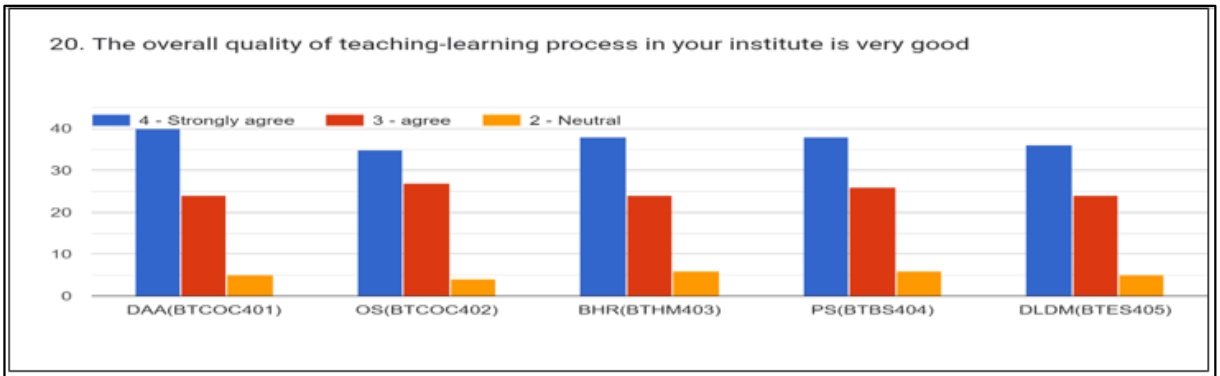
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Strongly Agree	42	40	40	40	40	57.71%
Agree	24	25	25	25	25	35.43%
Neutral	4	5	5	5	5	6.86%
Total	70	70	70	70	70	100%



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
To a great extent	40	38	38	40	38	55.43%
Moderate	25	25	25	25	26	36%
Some what	5	7	7	5	6	8.57%
Total	70	70	70	70	70	100%



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
70 to 89%	40	40	35	36	35	53.14%
50 to 69%	25	25	28	29	26	38%
30 to 49%	5	5	7	5	9	8.86%
Total	70	70	70	70	70	100%



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Strongly Agree	40	38	38	38	36	54.29%
Agree	25	27	24	26	28	37.14%
Neutral	5	5	8	6	6	8.57%
Total	70	70	70	70	70	100%

Fig.2.2.1 q. Online Feedback Form

Give 3 Observation/Suggestion to improve the overall teaching learning experience of respective teachers

1. We need industrial experts for teaching , more guest lectures , workshops should be arranged for interview training.
2. Communicate with every students.
3. Teaching Learning Process is good.
4. Learning experience are wonderful for all subjects.
5. Increase soft skills program.

Overall Analysis

Subject	Faculty	Appreciation	Suggestion for improvement	Sign
DAA(BTCOC401)	Mrs. Mandhare. R.M	1. Good teaching Process. 2. Encourage to participate in extra curricular activities. 3. Illustrate the concept through example and application.	1. Need to use student centric method. 2. Need to discuss test performance with students.	
OS(BTCOC402)	Mr. Gujar V.B.	1. Covered syllabus with in timeline. 2. Take student follow-up regularly. 3. Provide multiple opportunities to learn and grow.	1. Need to take efforts to make students ready for world work. 2. Need to illustrate the concept through examples. 3. Need to inform student about Co's and Po's.	
BHR(BTHM403)	Mr. Dixit D.C.	1. Encourage students to participate in extra curricular activities. 2. Take student follow-up regularly. 3. Conduct fair internal evaluation.	1. Need to improve teaching process. 2. Need to use ICT tools at the time of teaching. 3. Need to provide multiple opportunities to learn and grow.	

AMC

Arvind Gavali College of Engineering EN 6545 Satara

H.O.D.
Head Computer Science & Engg.
Arvind Gavali College of F
Panmalewadi

Overall Analysis

Subject	Faculty	Appreciation	Suggestion for improvement	Sign
PS(BTBS404)	Ms Mulla S.Y.	1. Illustrate concept through example and application. 2. Take efforts to make student for work world ready. 3. Use student centric method.	1. Need to take student follow up regularly. 2. Need to identify student weakness and help to overcome them. 3. Need to encourage student to participate in extra curricular activities.	
DLDM(BTCOE305)	Dr Shah M.M.	1. Encourage to participate in extra curricular activities. 2. Illustrate concept through examples and application. 3. Provide multiple opportunities to learn and grow.	1. Need to use ICT tools. 2. Need to inform student about Co's and Po's. 3. Need to take efforts to make students ready for world work.	

AMC

Arvind Gavali College of Engineering EN 6545 Satara

H.O.D.

Head Computer Science & Engg.
Arvind Gavali College of E...
Panmalewadi

Action Taken

	Subject	Faculty	Suggestion for improvement	Action	Remark HOD
1	DAA(BTCOC401)	Mrs. Mandhare R.M.	1. Need to use student centric method. 2. Need to discuss test performance with students.	More problem solving sessions in DAA are planned for slow learners	More problem solving sessions in DAA are conducted to for slow learners
2	OS(BTCOC402)	Mr. Gujar V.B.	1. Need to take efforts to make students ready for world work. 2. Need to inform student about Co's and Po's.	A separate session is planned to illustrate students course outcome and objectives of operating systems.	A separate session is conducted to illustrate students course outcome and objectives of operating systems
3	BHR(BTHM403)	Mr. Dixit D.C	1. Need to improve teaching process. 2. Need to use ICT tools at the time of teaching.	Chapter wise study material including notes is provided	Chapter wise material is shared to students

AMC

Head Computer Science & Engg.
Arvind Gavali College of Engg.
Panmalewadi

Arvind Gavali College of Engineering EN 6545 Satara

Dr. Vilas Pharande
Principal
Arvind Gavali College of Engineering
Panmalewadi, SATARA

Fig.2.2.1 r. Feedback Analysis and Action Taken

2.2.2. Quality of Internal Semester Question papers, Assignments and Evaluation (20)

A. Process for internal semester question paper setting and evaluation and effective process implementation (05)

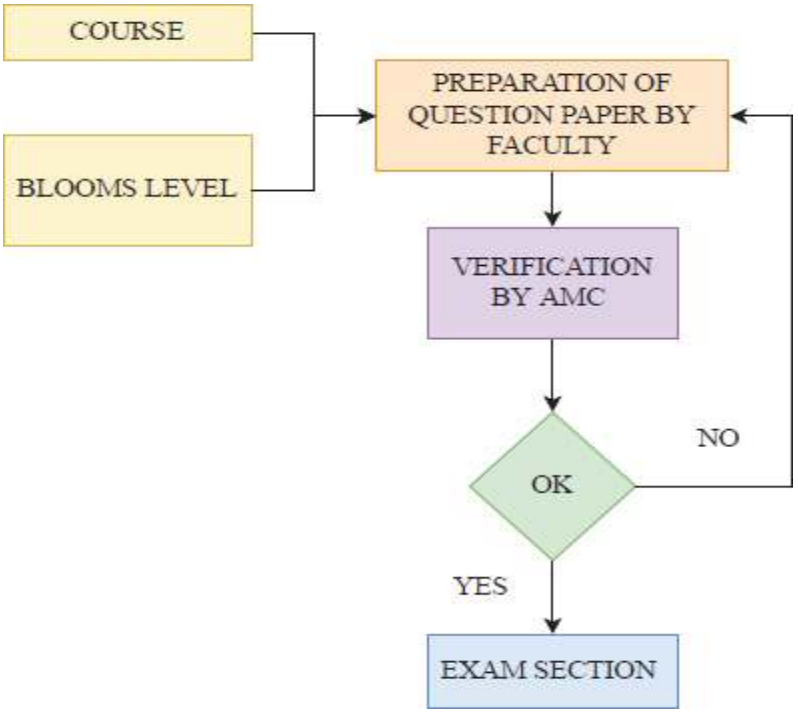


Fig B.2.2.2.a: Internal Question Paper Setting and Evaluation Process

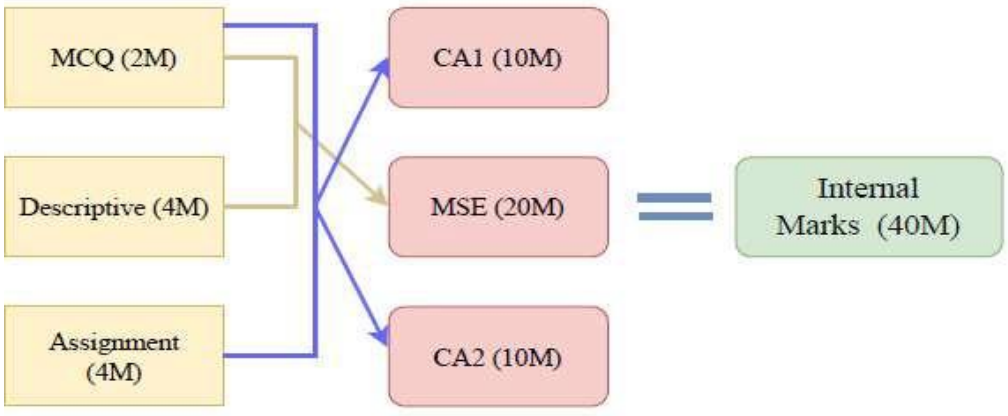


Fig B.2.2. 2.b: Internal Examination Question Paper Pattern

Computer Science & Engineering department follows the evaluation of the scheme of DBATU,Lonere.

- Internal and external exams are the main medium for PO attainment. Three tests continuous assessment test 1, continuous assessment test 2, and mid-semester examination are conducted during the semester as per the Institute Academic Calendar.
- The students are informed of the evaluation process during their orientation program itself.
- The institute forms an Academic and Examination committee for question paper quality checking, evaluation, and effective process implementation.

9/12/23, 3:44 PM Gmail - Approval for Question Paper of Midsem Examination

Gmail rajani mandhare <exam.cseagceenggsatara@gmail.com>

Approval for Question Paper of Midsem Examination

3 messages

rajani mandhare <exam.cseagceenggsatara@gmail.com> 23 April 2023 at 17:01
To: ankurnirmalkar21@gmail.com

Respected Sir,
Myself Mrs. Rajani Mandhare working as a Assistant Professor & departmental examination coordinator in the department of computer science & engineering (CSE) of Arvind Gavali College of Engineering , satara which is affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad. As Midsem examination is going to start from 24th April, 2023, it is requested to you please have a look at the attached question papers & curriculum syllabus and give your approval as you are a member of the Departmental Advisory Board(DAB).

Thanks and Regards.

10 attachments

- **CN Mid Sem Set I.docx** 16K
- **CN Mid Sem Set III.docx** 16K
- **CN Mid Sem Set II.docx** 16K
- **ML_Mid_Set1.docx** 17K
- **ML_Mid_Set31.docx** 68K
- **ML_Mid_Set2.docx** 68K
- **Mid term paper 2.docx** 9K
- **Mid term paper 3.docx** 9K
- **Mid term paper 1.docx** 9K
- **Revised-Computer-Engg-Syllabus-wef-2021 (2).pdf** 965K

Ankur Nirmalkar <ankurnirmalkar21@gmail.com> 23 April 2023 at 17:06
To: rajani mandhare <exam.cseagceenggsatara@gmail.com>

Hi Ranjani,

I have gone through the exam papers, it looks good to me, Please go ahead for further process

Regards
Ankur

https://mail.google.com/mail/u/2/?ik=1eff82c916&view=pt&search=all&permthid=thread-a:r4326029938880070617&simpl=msg-a:r5537023136272... 1/2

Fig.2.2.2 b. Paper quality evaluation by DAB member

- Three sets of question papers for each course are prepared by the faculty members and submitted to the Academic Monitoring Committee. The committee member selects one copy based on the quality of question's and relevance to COs.
- After approval from the committee, the final paper is printed, one hour before the scheduled class test to maintain confidentiality.
- The examination department schedules the examination timetable, test invigilation allotment, and room allotment and coordinates in smooth execution of the examination. The examination timetable and seating arrangement documents are displayed on the notice board and posted on what-app group of students.
- The questions for theory examination are aligned with bloom's taxonomy. COs and bloom's level are incoporated by the course coordinators and verified by the Academic Monitoring Committee. The duration of the test is 1 hr.
- The minimum 20% syllabus is covered before the continuous assessment test-I, the minimum 50% syllabus is covered before the mid semester examination, and the 100% syllabus is covered before the continuous assessment test-II by course coordinator.

Evaluation:

a) The faculty member evaluates the test books as per the scheme of evaluation.

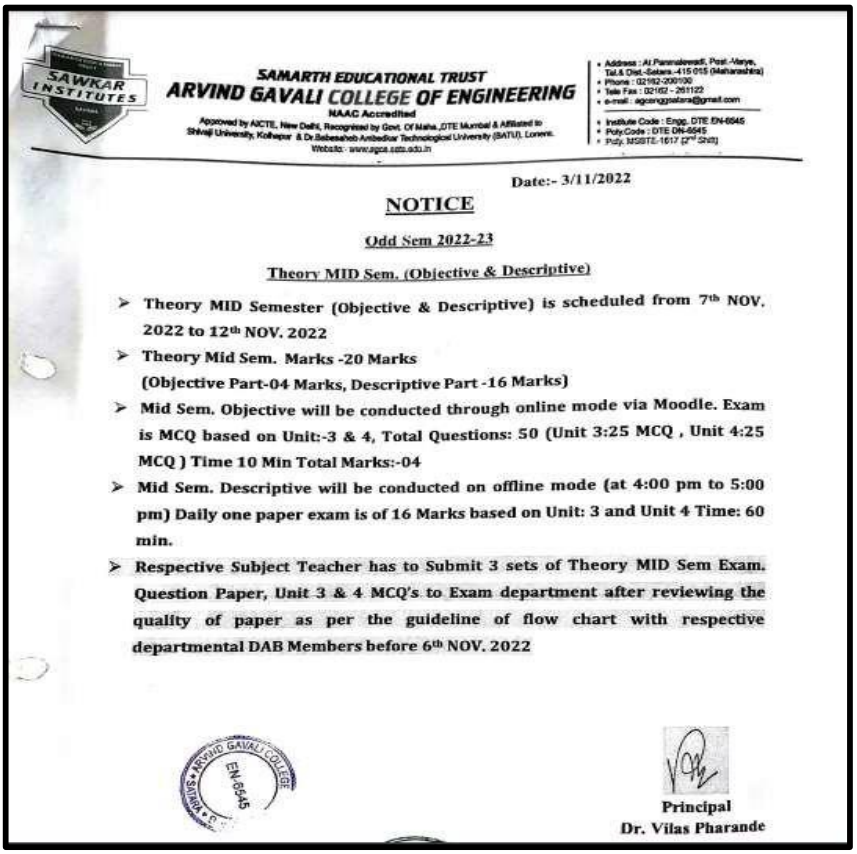
b) The standard question paper solution is discussed with the students in class room.

c) For any genuine reason if a student was unable to perform well in the given three internal assessment tests or students are interested for class improvement, remedial test facility is available for him/her.

d) The best of two test marks obtained is chosen for the internal assessment marks.

e) Assignments are used to learn, practice and demonstrate the learning goals only. As actual evaluation is based purely on internal assessment test.

Figures B.2.2.2.e shows the sample question papers.



SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
NAAC Accredited

Date:- 3/11/2022

NOTICE

Odd Sem 2022-23

Theory MID Sem. (Objective & Descriptive)

- Theory MID Semester (Objective & Descriptive) is scheduled from 7th NOV. 2022 to 12th NOV. 2022
- Theory Mid Sem. Marks -20 Marks
  (Objective Part-04 Marks, Descriptive Part -16 Marks)
- Mid Sem. Objective will be conducted through online mode via Moodle. Exam is MCQ based on Unit:-3 & 4, Total Questions: 50 (Unit 3:25 MCQ , Unit 4:25 MCQ) Time 10 Min Total Marks:-04
- Mid Sem. Descriptive will be conducted on offline mode (at 4:00 pm to 5:00 pm) Daily one paper exam is of 16 Marks based on Unit: 3 and Unit 4 Time: 60 min.
- Respective Subject Teacher has to Submit 3 sets of Theory MID Sem Exam. Question Paper, Unit 3 & 4 MCQ's to Exam department after reviewing the quality of paper as per the guideline of flow chart with respective departmental DAB Members before 6th NOV. 2022

Principal
Dr. Vilas Pharande

Fig B.2.2.2.c: Examination Notice

Dr.Babasaheb Ambedkar Technological University, Lonere
Arvind Gavali Co[illegible] of Engineering,Satara (Inst. Code:6545)
(Odd Sem: 2022-23)
Department: Computer Science and Engineering
Theory CA-I (Objective & Descriptive) Exam.
TIME -TABLE (10 - 15 Oct 2022)

Day & Date	Class	Subject Code	Subject Name	Objective Exam Time (Moodle)	Descriptive Exam Time
Monday, October 10, 2022	S. Y. B. Tech	BTBSC301	Engineering Mathematics- III	10:00 AM to 11:59 PM	4:30 PM to 5:00 PM
	T. Y. B. Tech	BTCOC501	Database Systems		
Tuesday, October 11, 2022	S. Y B. Tech	BTCOC302	Discrete Mathematics	10:00 AM to 11:59 PM	4:30 PM to 5:00 PM
	T. Y. B. Tech	BTCOC502	Theory of Computations		
Wednesday, October 12, 2022	S. Y B. Tech	BTCOC303	Data Structures	10:00 AM to 11:59 PM	4:30 PM to 5:00 PM
	T. Y. B. Tech	BTCOC503	Software Engineering		
Thursday, October 13, 2022	S. Y B. Tech	BTCOC304	Computer Architecture & Organization	10:00 AM to 11:59 PM	4:30 PM to 5:00 PM
	T. Y. B. Tech	BTCOE504B	Numerical Methods		
Friday, October 14, 2022	S. Y B. Tech	BTCOC305A	Elective –I	10:00 AM to 11:59 PM	4:30 PM to 5:00 PM
	T. Y. B. Tech	BTCOE505B	Business Communication		

Note:
1 CA- I theory examination (Descriptive)will be conducted in offline mode only & objective examination will be conducted in online mode through MOODLE
2 As per guidelines from DHATU , all Students should attend the CA-I examination as per the above mentioned time table schedule
3 If any student will not be appeared for the test then he/she will be treated as absent .

Mrs. Mandhare R. M.
Departmental Examination Coordinator

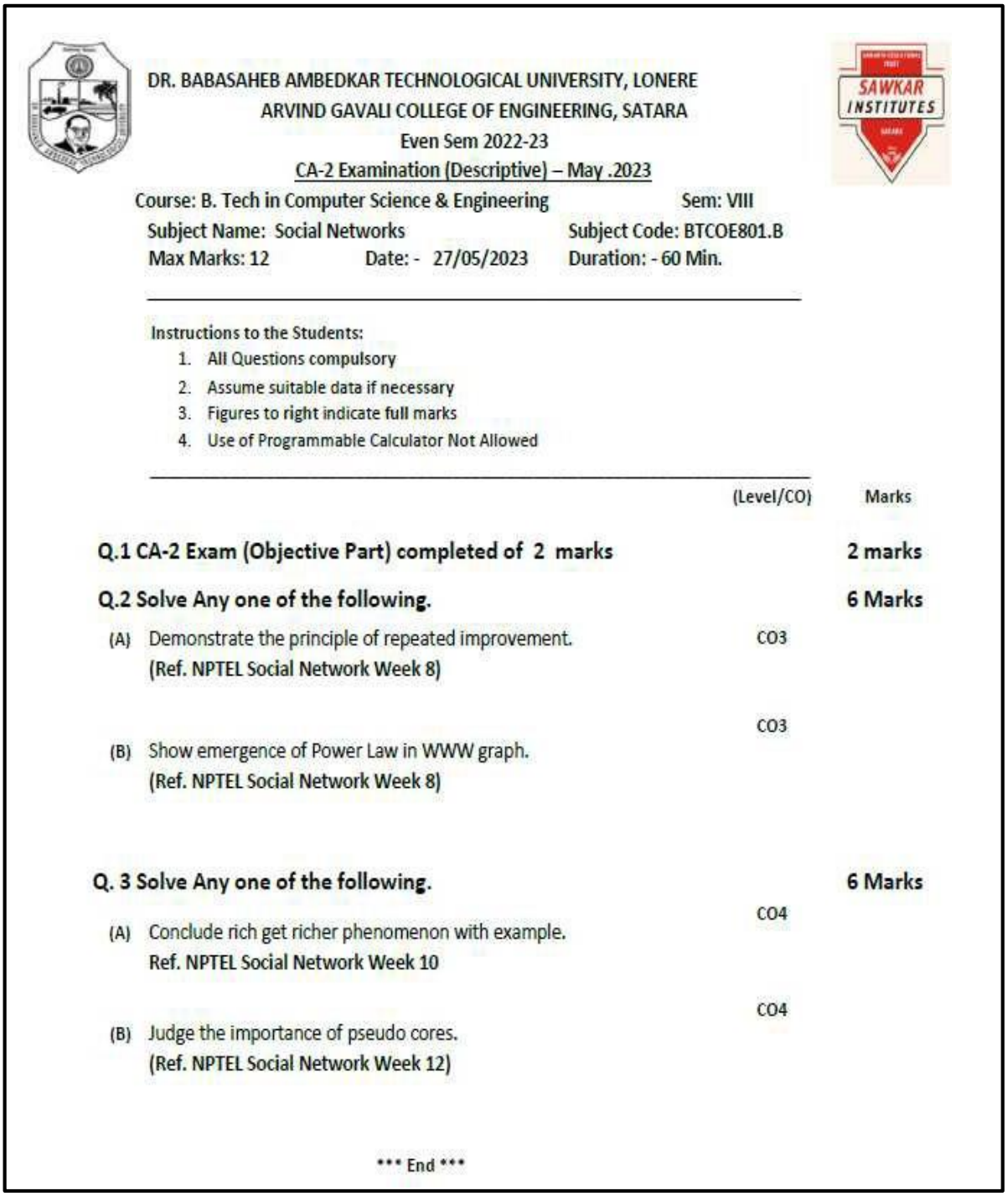
Prof. Dr. Shinde S. B.
H. o. D

Dr. Kadam A. A.
Controller of Examination

Prof. Dr. Vilas Pharande
Principal

Head Computer Science & Engg.
Arvind Gavali College of Engg.

Fig. B.2.2.2.d: Examination Time Table



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
Even Sem 2022-23
CA-2 Examination (Descriptive) – May .2023

Course: B. Tech in Computer Science & Engineering Sem: VIII
Subject Name: Social Networks Subject Code: BTCOE801.B
Max Marks: 12 Date: - 27/05/2023 Duration: - 60 Min.

Instructions to the Students:
1. All Questions compulsory
2. Assume suitable data if necessary
3. Figures to right indicate full marks
4. Use of Programmable Calculator Not Allowed

	(Level/CO)	Marks
Q.1 CA-2 Exam (Objective Part) completed of 2 marks		**2 marks**
Q.2 Solve Any one of the following.		**6 Marks**
(A) Demonstrate the principle of repeated improvement. **(Ref. NPTEL Social Network Week 8)**	CO3	
(B) Show emergence of Power Law in WWW graph. **(Ref. NPTEL Social Network Week 8)**	CO3	
Q. 3 Solve Any one of the following.		**6 Marks**
(A) Conclude rich get richer phenomenon with example. **Ref. NPTEL Social Network Week 10**	CO4	
(B) Judge the importance of pseudo cores. **(Ref. NPTEL Social Network Week 12)**	CO4	

*** End ***

Fig B.2.2.2.e: CA2 Question Paper

B. Process to ensure questions from outcomes/learning level perspective (05)

- Using Bloom's taxonomy internal exam questions papers are set.
- The questions in the internal test are based on the course outcomes to find attainment.
- The course coordinator ensures that the learning objectives and potential results.
- Each internal theory test, whether it be online or offline, is administered as a means of evaluation.
- The questions are formed with the COs and Bloom's level.

C. Evidence of CO coverage in class test/mid-term tests (05)

- The institute has defined the following tools for the attainment of the course outcomes.
- The theory courses are assessed with the following tools for the attainment of course outcomes.
- The internal assessment tools of the program are as follows.

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Arvind Gavali College Of Engineering, Satara.

Even Semester 2022-23

Mid Semester Examination (Descriptive) – May 2023

Course: B. Tech in Computer Science and Engineering **Semester: IV**

Subject Name: Operating Systems . **Subject Code: BTCOC402**

Max Marks: 20 **Date: - 25/05/2023** **Duration:- 60 Min.**

Instructions to the Students:

1. **All** Questions **compulsory**
2. Assume suitable data if **necessary**
3. Figures to **right** indicate **full** marks
4. Use of Programmable Calculator **Not** Allowed

		(Level/CO)	Marks
Q.1	Solve four objective questions on moodle.		**4 Marks**
Q.2	**Solve Any two of the following.**		**8 Marks**
(A)	Paraphrase Real time operating systems.	(Remember/CO2)	
(B)	Write note on inter process communication	(Understand/CO2)	
(C)	Illustrate multithreading model.	(Apply/CO3)	
Q. 3	**Solve Any one of the following.**		**8 Marks**
(A)	Demonstrate thread scheduling.	(Apply/CO3)	
(B)	Paraphrase critical section.	(Analyze/CO3)	

*** End ***

Fig B.2.2.2.f: Mid Sem Question Paper

Internal assessment tools (Direct) are:

Table 2.2.2a Direct Internal Assessment Tools

Course Outcome	Internal Assessment Tools
CO 1	CA1, MSE, ESE
CO 2	CA1,MSE, ESE
CO 3	CA2,MSE ,ESE
CO 4	CA2, ESE

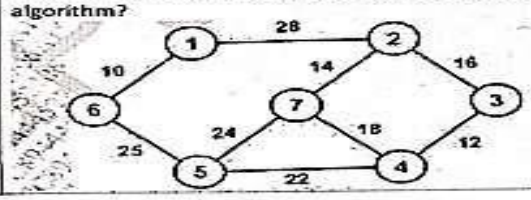
D. Quality of Assignments and its relevance to Cos (05)

- Faculty members prepare COs for the allocated subjects. They then prepare assignments according to these COs using Bloom's Taxonomy levels. Academic monitoring member verifies checks mapping of assignments with the defined COs.
- The faculty prepares a total of five-six assignments by considering coverage of all course outcomes. Certain time duration is given to the students to submit the assignment. The assignments submitted by the students are evaluated by the faculty members. Marks are given as per student's performance and a record is maintained in the course files.

Dr. Babasaheb Ambedkar Technological University, Lonere
Arvind Gavali College of Engineering,Satara
(Inst. Code: 6545)
ODD Sem (2021-22)
Department: CSE
Class: SY BTech
Subject: Discrete Mathematics (BTC0C302)

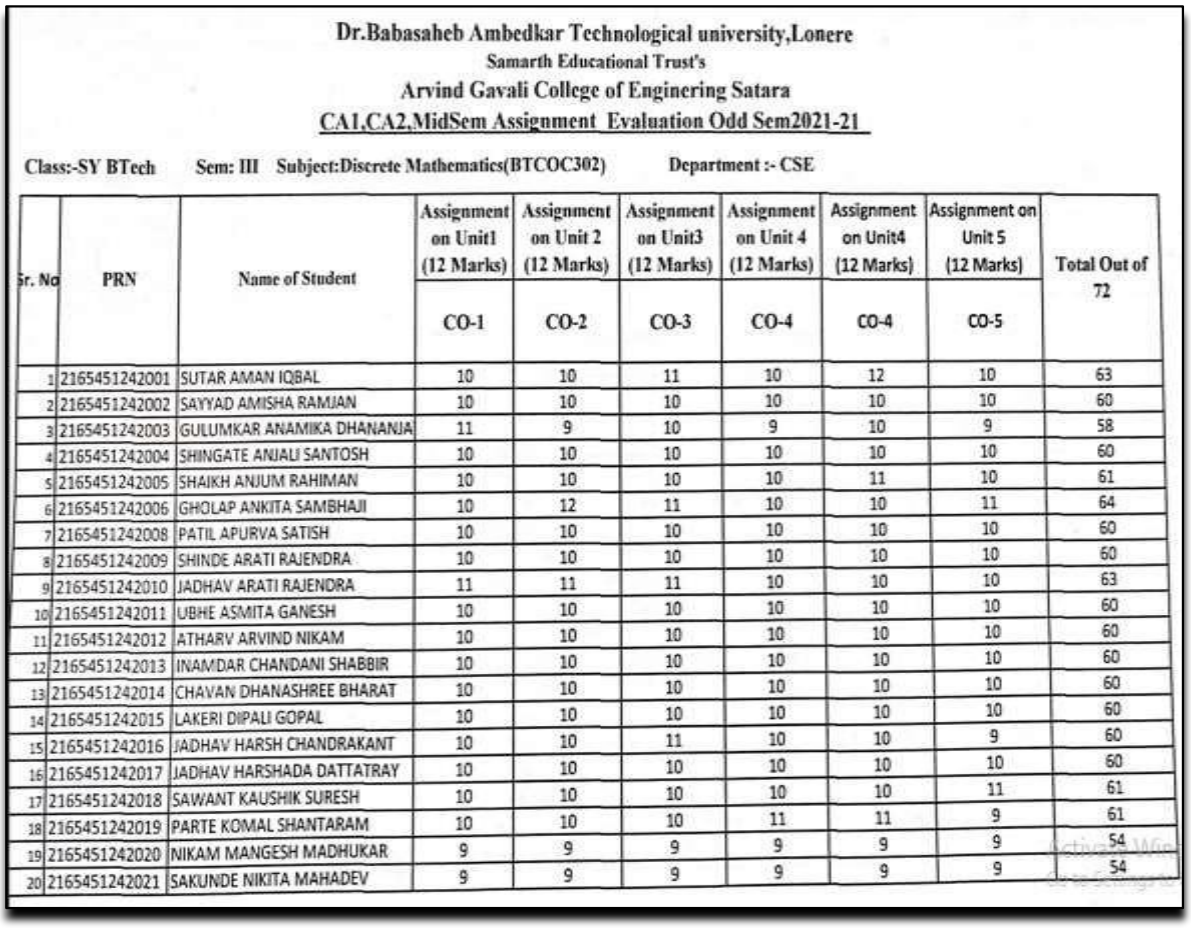
Assignment No: 4

Published Date: 1/12/2021
Submission Date: 7/12/2021

Q.1)	Define following with respect to tree a]Minimum spanning tree b)Eccentricity of vertex c]M-array tree d]Level and Height of tree	Remember Level/CO1	[6 Marks]
Q.2)	Find Minimum spanning tree for the given graph using Kruskal's algorithm? 	Understand Level/CO2	[6 Marks]

Name & Sign of Faculty
Mrs Mandhare R.M.
Assistant Professor,
CSE

Fig B.2.2.2.g Assignment with CO relevance



Dr.Babasaheb Ambedkar Technological university,Lonere

Samarth Educational Trust's

Arvind Gavali College of Enginering Satara

CA1,CA2,MidSem Assignment Evaluation Odd Sem2021-21

Class:-SY BTech Sem: III Subject:Discrete Mathematics(BTCOC302) Department :- CSE

Sr. No	PRN	Name of Student	Assignment on Unit1 (12 Marks) CO-1	Assignment on Unit 2 (12 Marks) CO-2	Assignment on Unit3 (12 Marks) CO-3	Assignment on Unit 4 (12 Marks) CO-4	Assignment on Unit4 (12 Marks) CO-4	Assignment on Unit 5 (12 Marks) CO-5	Total Out of 72
1	2165451242001	SUTAR AMAN IQBAL	10	10	11	10	12	10	63
2	2165451242002	SAYYAD AMISHA RAMJAN	10	10	10	10	10	10	60
3	2165451242003	GULUMKAR ANAMIKA DHANANJA	11	9	10	9	10	9	58
4	2165451242004	SHINGATE ANJALI SANTOSH	10	10	10	10	10	10	60
5	2165451242005	SHAIKH ANJUM RAHIMAN	10	10	10	10	11	10	61
6	2165451242006	GHOLAP ANKITA SAMBHAJI	10	12	11	10	10	11	64
7	2165451242008	PATIL APURVA SATISH	10	10	10	10	10	10	60
8	2165451242009	SHINDE ARATI RAJENDRA	10	10	10	10	10	10	60
9	2165451242010	JADHAV ARATI RAJENDRA	11	11	11	10	10	10	63
10	2165451242011	UBHE ASMITA GANESH	10	10	10	10	10	10	60
11	2165451242012	ATHARV ARVIND NIKAM	10	10	10	10	10	10	60
12	2165451242013	INAMDAR CHANDANI SHABBIR	10	10	10	10	10	10	60
13	2165451242014	CHAVAN DHANASHREE BHARAT	10	10	10	10	10	10	60
14	2165451242015	LAKERI DIPALI GOPAL	10	10	10	10	10	10	60
15	2165451242016	JADHAV HARSH CHANDRAKANT	10	10	11	10	10	9	60
16	2165451242017	JADHAV HARSHADA DATTATRAY	10	10	10	10	10	10	60
17	2165451242018	SAWANT KAUSHIK SURESH	10	10	10	10	10	11	61
18	2165451242019	PARTE KOMAL SHANTARAM	10	10	10	11	11	9	61
19	2165451242020	NIKAM MANGESH MADHUKAR	9	9	9	9	9	9	54
20	2165451242021	SAKUNDE NIKITA MAHADEV	9	9	9	9	9	9	54

Fig B.2.2.2.h Assignment Evaluation Record

2.2.3. Quality of student projects (25)

A. Identification of projects and allocation methodology to Faculty Members (03)

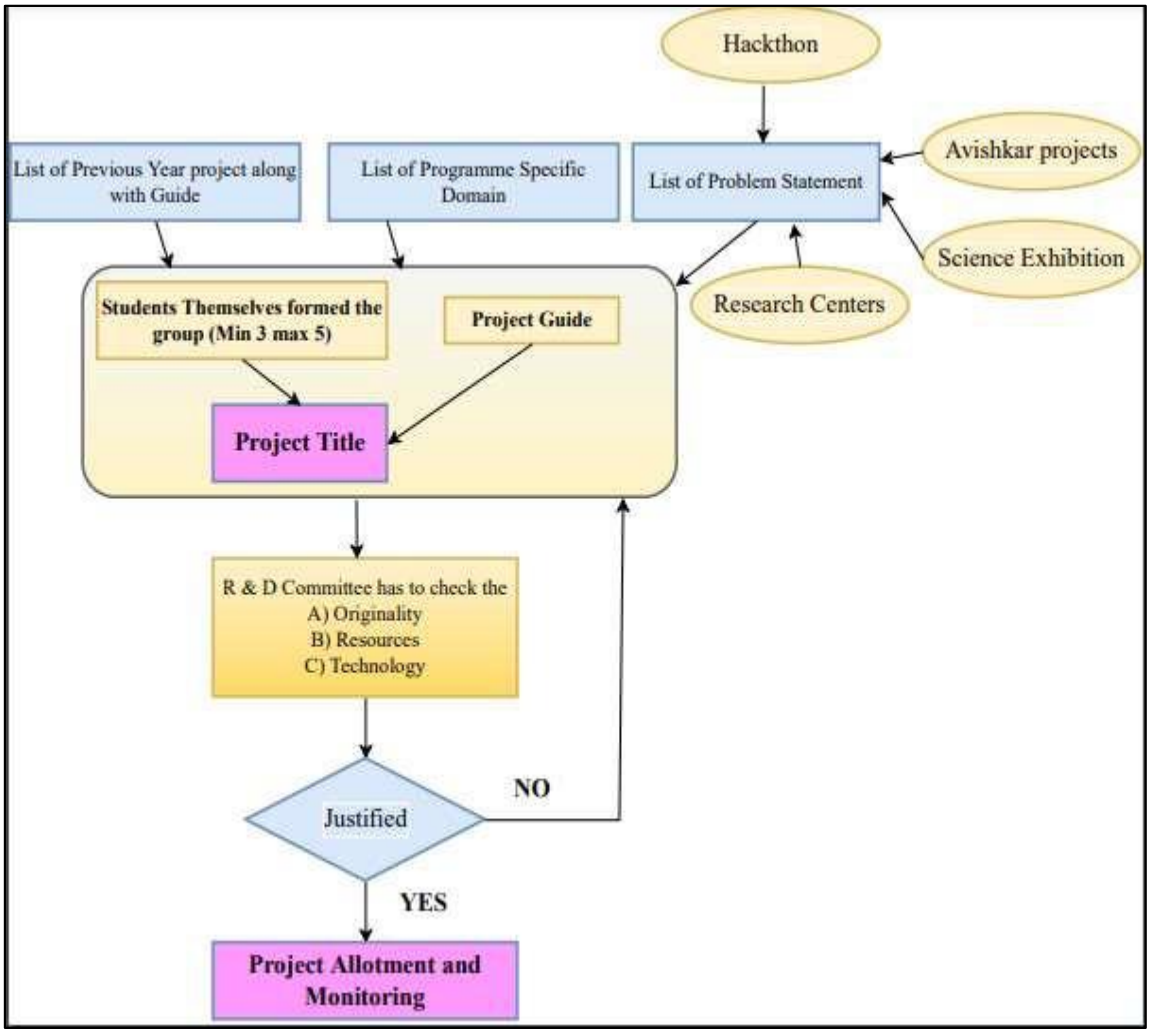


Fig B.2.2.3.a: Project Identification & allocation method

Students carry out a mini project in the fourth semester and a major project in the seventh and eighth semesters. Department follows standard procedures to ensure the quality of the project. The student selects a project domain in line with their interest. Students are encouraged to do a real-time project. Department and R& D head guides,the student to select domain by sharing with them various project domains like (not limited to)

a) Web Technology

b) Information Retrieval

c) Internet of Things

d) Machine Learning

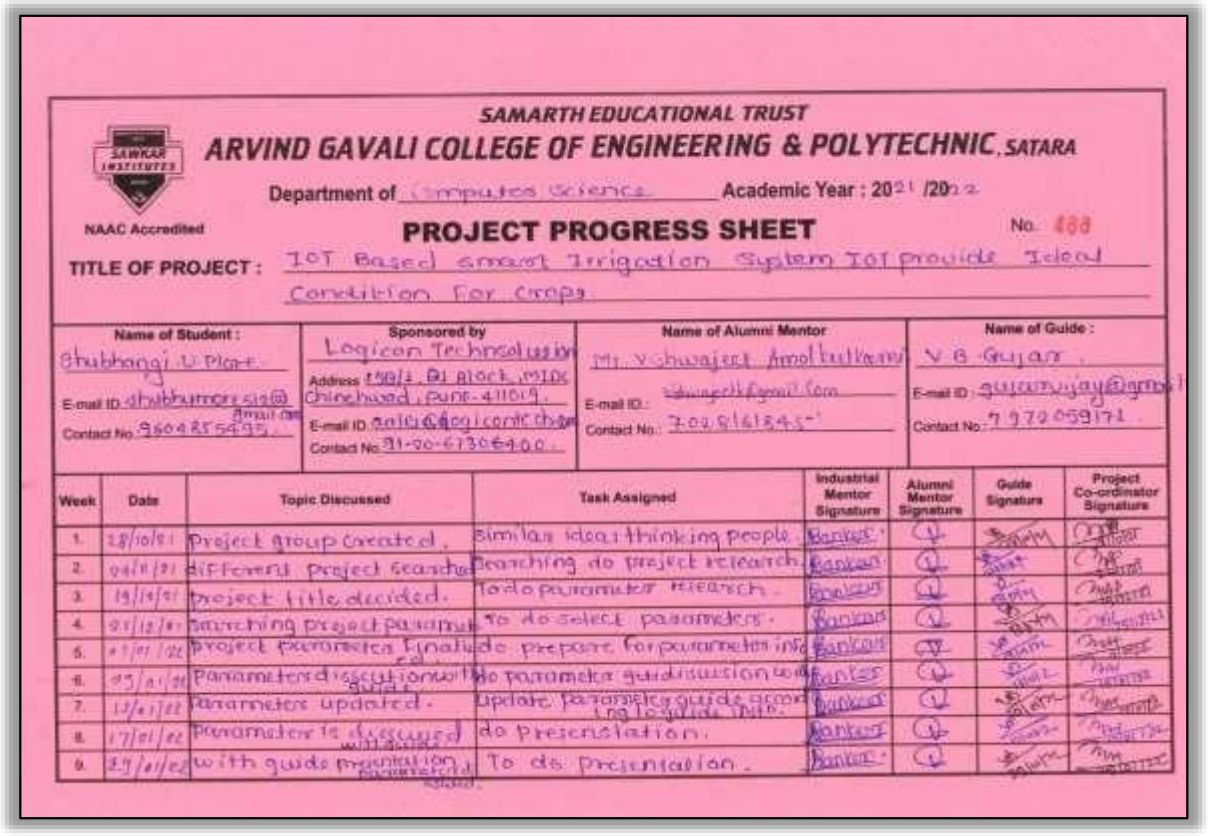
e) Artificial Intelligence

Project groups are formed by the student themselves accordingly to their area of interest, if they are not able to form a group then the project coordinator helps them to form a group.

A. Project Identification & guide allocation methodology (03)

The project coordinator and project assessment committee (PAC) ensure the quality of students' projects. The PAC follows the guidelines set by the department in the following manner:

1. The R & D committee displays a list of faculty members along with their areas of expertise on the notice board.
2. A list of previous year's projects is displayed onthe notice board and also available in the departmental library, which ensures no repetition of project work.
3. Students select the suitable area, form their group of a minimum of three and a maximum of five, and contact the concerned faculty member.
4. If any group is failing to submit the guide name then the project coordinator will assign the guide to the group.
5. Students can identify a problem statement for the project. If they are not able to find the problem statement, then the supervisor will give a problem statement to the students for the execution of problem solutions through the project work.
6. Committee finally allows the projects by considering various parameters like a relevance to POs, originality, feasibility, technology used, patentability and resource required.
7. The guide monitors the progress of the project work regularly and keeps a track record. In case, the performance of the student's group is not satisfactory, the matter is reported to PAC for required action.
8. The guide ensures documentation with the university format for submission of the project report.



SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING & POLYTECHNIC, SATARA

NAAC Accredited

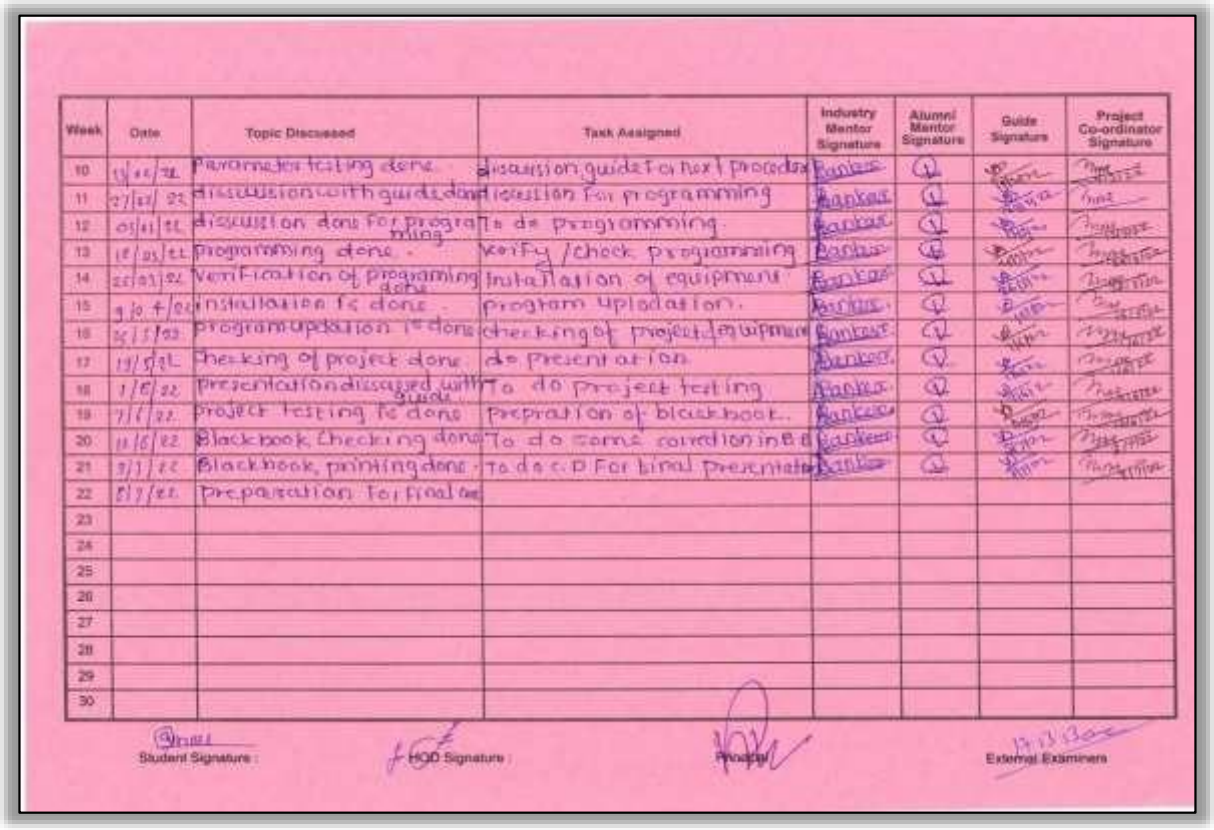
Department of Computer Science Academic Year : 2021 /2022

PROJECT PROGRESS SHEET No. 488

TITLE OF PROJECT : IOT Based smart Irrigation System IOT provide Ideal Condition For Crops

Name of Student :	Sponsored by	Name of Alumni Mentor	Name of Guide :
Shubhangi U Plate E-mail ID: shubhumore512@gmail.com Contact No. 9604855495	Logicon Technsolution Address: 159/2, B1 Block, MIDC Chinchwad, Pune-411019. E-mail ID: sales@logicontech.com Contact No. 91-20-67306400	Mr. Vishwajeet Amolkulkarni E-mail ID: vishwajeet@gmail.com Contact No. 7028161345	V B Gujar E-mail ID: gujarvijay@gmail Contact No. 7972059171

Week	Date	Topic Discussed	Task Assigned	Industrial Mentor Signature	Alumni Mentor Signature	Guide Signature	Project Co-ordinator Signature
1.	28/10/21	Project group created.	Similar ideas thinking people.	Bankar			
2.	04/11/21	different project searched	Searching do project research.	Bankar			
3.	19/11/21	project title decided.	To do parameter research.	Bankar			
4.	21/12/21	Searching project parameter	To do select parameters.	Bankar			
5.	01/01/22	project parameter finalized	do prepare for parameter info	Bankar			
6.	05/01/22	Parameter discussion with guide	do parameter guide discussion with	Bankar			
7.	12/01/22	Parameter updated.	Update parameter guide according to guide info.	Bankar			
8.	17/01/22	Parameter is discussed with guide	do presentation.	Bankar			
9.	29/01/22	with guide presentation parameter discussed.	To do presentation.	Bankar			



Week	Date	Topic Discussed	Task Assigned	Industry Mentor Signature	Alumni Mentor Signature	Guide Signature	Project Co-ordinator Signature
10	13/02/22	Parameter testing done	discussion guide for next procedure	Bankar			
11	27/02/22	discussion with guide done	discussion for programming	Bankar			
12	05/01/22	discussion done for programming	To do programming	Bankar			
13	18/03/22	programming done.	verify / check programming	Bankar			
14	25/03/22	Verification of programing done	Installation of equipment	Bankar			
15	9/04/22	installation is done.	program uplodation.	Bankar			
16	26/5/22	program updation is done	checking of project equipment	Bankar			
17	19/5/22	checking of project done	do presentation	Bankar			
18	1/6/22	presentation discussed with guide	To do project testing	Bankar			
19	7/6/22	project testing is done	prepration of blackbook.	Bankar			
20	11/6/22	Blackbook checking done	To do some correction in B.B	Bankar			
21	3/7/22	Blackbook printing done.	To do C.D For final presentation	Bankar			
22	8/7/22	preparation for final case					
23							
24							
25							
26							
27							
28							
29							
30							

Student Signature : HOD Signature : Principal External Examiners

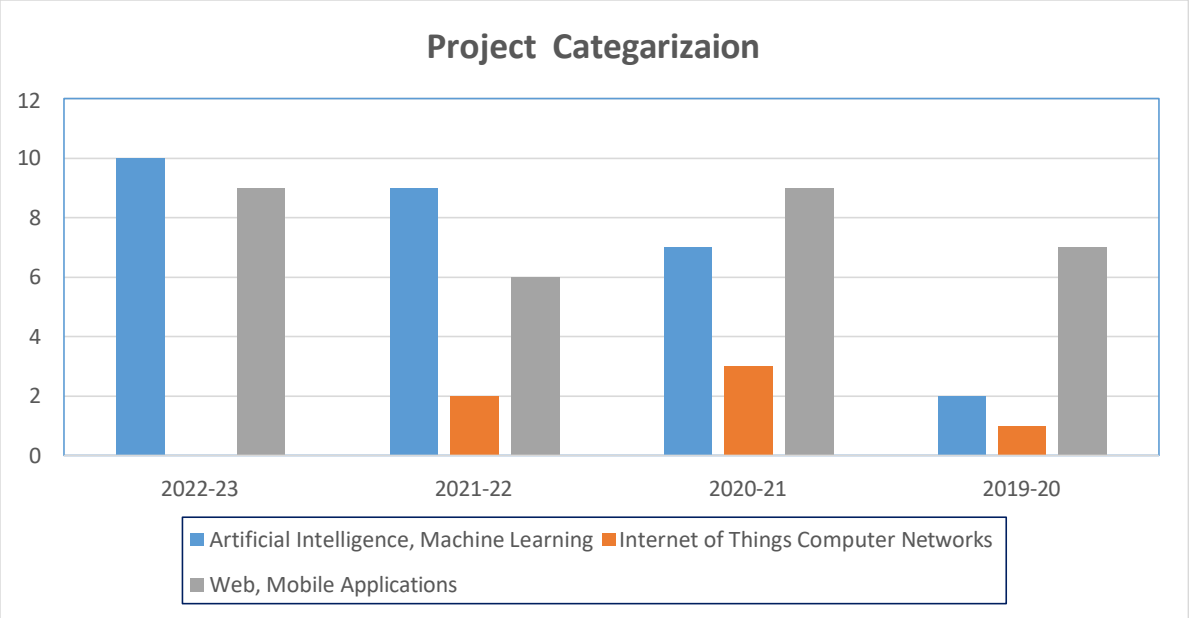
Fig B.2.2.3.b :Sample Project Progress Sheet

B. Types and relevance of projects and their contribution towards attainment of POs and PSO (05)

Artificial intelligence, machine learning, data mining, computer networks,the internet of things, the web, and mobile applications arethe major domain of project development in the computer science and engineering department.

Table 2.2.3.a Project Categories

Project Domain	**No. of Project in each domain**		
	2022-23	**2021-22**	**2020-21**
Artificial Intelligence, Machine Learning	10	09	07
Internet of Things Computer Networks	00	02	04
Web, Mobile Applications	09	06	09
Total Projects	19	17	20



To ensure the relevance of projects, the need for the development of the project in the current technological context should be verified by the team consisting of the project guide and project assessment committee members, and also the projects are mapped to POs and PSOs.

Course Outcomes:

1. Improve professional competency and research aptitude in the relevant area.
2. Develop work practices in students to apply theoretical and practical tools/techniques to solve real-life problems related to industry and current research.
3. Clearly understand the value of achieving perfection in project implementation and completion.
4. Learn to accept challenges and work in a team to solve problems with a multidisciplinary approach.
5. Enable the student to implement the project planning in their industrial In plant training work
6. Demonstrate professionalism with ethics, present effective communication skills, and relate engineering issues to the broader social context of

Table 2.2.3.b Project CO-PO Mapping

CO - PO Mapping Of Project												
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	3	3	3							
CO 2	3	3	3	3	3	3	3					
CO 3	3	3	3	3								3
CO 4						3		3	3			3
CO 5											3	
CO 6						3		3		3		
Strength of Correlation: High – 3, Medium – 2, Low – 1												

The procedure of CO Attainment

1. All the performanceindicator parameters/ Rubrics are mapped with course outcomes.
2. The percentage of marks in each CO for every student is calculated.
3. The percentage of students securing more than a threshold percentage (increase every year for continuous improvement of performance) in internal and external evaluation is calculated which shows a certain level of CO achievement

CAYm1(2022-23) :

Table B.2.2.3c Mapping of Projects (PR1-PR19) with PO and PSO

Group NO	Project Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10	PO 11	P 12	PSO!	PSO2
PR1	Custom named entity recognition using spacy	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR2	Medicine donation software	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR3	Human activity and face recognition using machine learning and deep learning model	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	Inventory management system	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	Real Time Face Mask Detection	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
PR6	dengu maleriya prediction using cnn	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	women security system	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	RTO Service Management	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR9	Real estate search based on data mining.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR10	Product recommendation system	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR11	Personal health care	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
PR12	Voice Vault Using Python	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR13	computer vision based virtual Mouse system	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR14	Detection of plant leaf diseases detection using CNN	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
PR15	Sign Language Recognition using Machine Learning	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR16	E-Learning Management System	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y
PR17	Online Task management system	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

PR18	Clinical Report Extraction using NLP	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR19	Cotton leaf prediction using cnn	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

CAYm2(2021-22) :

Table B.2.2.3d Mapping of Projects (PR1-PR17) with PO and PSO

Group NO	Project Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
PR1	AI based touch less attendance system for school, colleges after covid-19 situation with temp, oxygen level, and face mask detection.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR2	Image Segmentation	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR3	Online Import and Export	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	Secret vault using AES SHA256 algorithm.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	Agriculture Management System	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
PR6	The New Era of Agriculture	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	Hand sign Elevator	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	Malnutrition Prediction Using Image Processing	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR9	Building Intelligence in Healthcare	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR10	Social Media Web Application	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR11	Text Summarization with AI	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
PR12	IoT-Based Smart Irrigation System to Provide Ideal Condition for Crops	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR13	Geo Tracking of Waste and Triggering Alerts and Mapping Areas with High Waste Index	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR14	Facial Emotion Detection using Machine Learning.	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
PR15	Student Attendance Using Barcode Scan	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR16	SPYDER BOT	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y
PR17	To Develop a web protral displaying KD automation product details.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

CAYm3(2020-21):

Table B.2.2.3e Mapping of Projects (PR1-PR20) with PO and PSO

Grp NO	Project Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PR1	Mask Detection	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y
PR2	Detecting Phishing Website Using Machine Learning	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR3	Online Grocery Market	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	Web Development of PTMPL Advertising	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	Soldier Health Monitoring and Tracking	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR6	Soldier Health Monitoring and Tracking	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	Website Development for Construction Site	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	Online Exam Management	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR9	Brain Tumor Classification Using Deep Learning Algorithms	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR10	A Machine Learning Model For Venue Exploration and Recommendation	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR11	Chest X-Ray Abnormalities Detection	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR12	Snake Bot	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR13	Campus Recruitment System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR14	Automatic Vehicle Accident Detection and Rescue System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR15	Smart Medicine Box + Healthcare	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR16	Forest Fire Detection and Control	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR17	Counting Number of People	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR18	BMC Performance Monitoring System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR19	Student Record System With Recruitment Update	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR20	Online assessment of outcomes	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

B. Process for project work monitoring and evaluation (05)

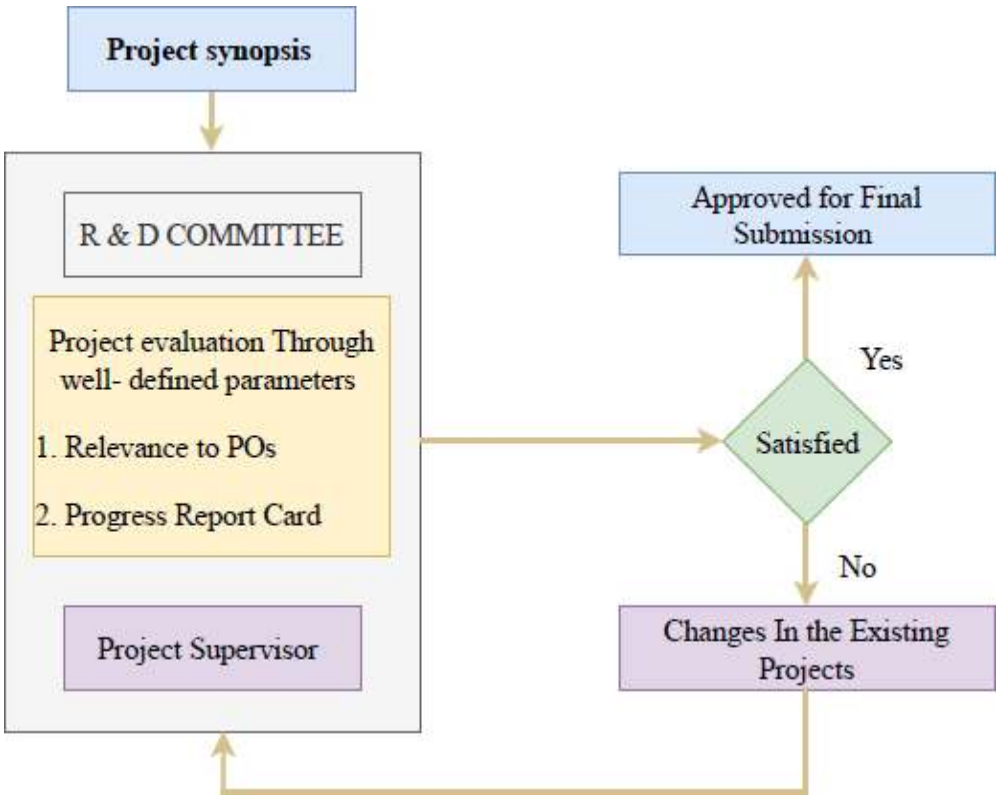


Fig B.2.2.3.d: Project Assessment Mechanism

Procedure for monitoring& evaluation:

a. Students have to submit the synopsis of the project work to the coordinators for feasibility checking.
b. The project work coordinators and the RR committee will scrutinize the synopsis and give suggestions for improvements in strengthening the synopsis.
c. In case, the group of students taking projects from the Public/Private sectors needs to take approval fromthe HOD and a Letter of Reference sent to the concerned sector. A faculty member of the department functions as an Internal Guide to such students and the scientist/researcher in the concerned sector functions as an External Guide.
d. Every week, the students should meet their concern guide and update their project work progress. The students/batch must give a presentation on the project in front of the project work review committee (RR Committee) as scheduled in Phase-1 & Phase-2.
e. Finally, the RR committee evaluates the projects for respective domains.

Evaluation by project assessment committee:

Phase 1:

Table B.2.2.3 g Project Evaluation Scheme

Sr. No	Performance Indicators/Rubrics	CO Mapping
1	Identification of Problem	CO1
2	Literature Review/ Feasibility of Project	CO2
3	Industry Sponsored/Research/Peer Review Paper Based	CO6
4	Synopsis	CO1,CO2,CO6
5	Objectives and Methodology of the Proposed Work	CO1,CO2
6	Planning of the Project Work and Team Structure	CO4
7	Presentation	CO6
8	Technical Knowledge and Awareness Related to the Project	CO1,CO2
9	Effectiveness of Communication	CO6
10	Working Within a Team	CO4

All above mentioned performance idiators are evelauated on scale of 1-5.

Excellent: 5

Very Good: 4

Good: 3

Satisfactory: 2

Not Satisfactory: 1

Phase 2:

Table B.2.2.3 h Project Evaluation Scheme

Sr. No	Performance Indicators/Rubrics	CO Mapping
1	Design Methodology	CO1,CO2
2	Experimental Setup/Laboratory Tests/Validation	CO2
3	Prototype Demonstration and Presentation	CO2
4	Incorporation of Suggestions	CO3
5	Project Budget and Finance	CO5
6	Final Project Demonatration	CO4
7	Effectiveness of Communication	CO6
8	Impact on Environment and Sustainability	CO6
9	Project Report	CO6
10	Results	CO6
11	Conclusion and Discussions	CO3
12	Modern Tool Usage	CO2
13	Participation in Competition	CO4
14	Self Motivation and Determination	CO6
15	Working Within a Team	CO4
16	Impact of Project on Society	CO6
17	Regularity	CO6
18	Applied Ethical Principles	CO6
19	Future Scope	CO1
20	References	CO1,CO2,CO3

All above mentioned performance idiators are evelauated on scale of 1-5.

Excellent: 5

Very Good: 4

Good: 3

Satisfactory: 2

Not Satisfactory: 1

Project Work Evaluation:

a) **Internal Evaluation:** The project work and the report will be evaluated by the internal committee at Phase-1, Phase-2

b) **External Evaluation:** The project work and the report will be evaluated by internal and external examiners appointed by the University.

c) The examiners will take a presentation and demonstration followed by Viva-Voce on the project work carried out by students. The students need to defend their project work. Based on the presentation and Viva-Voce, the marks will be awarded to the students, which will be sent to the university

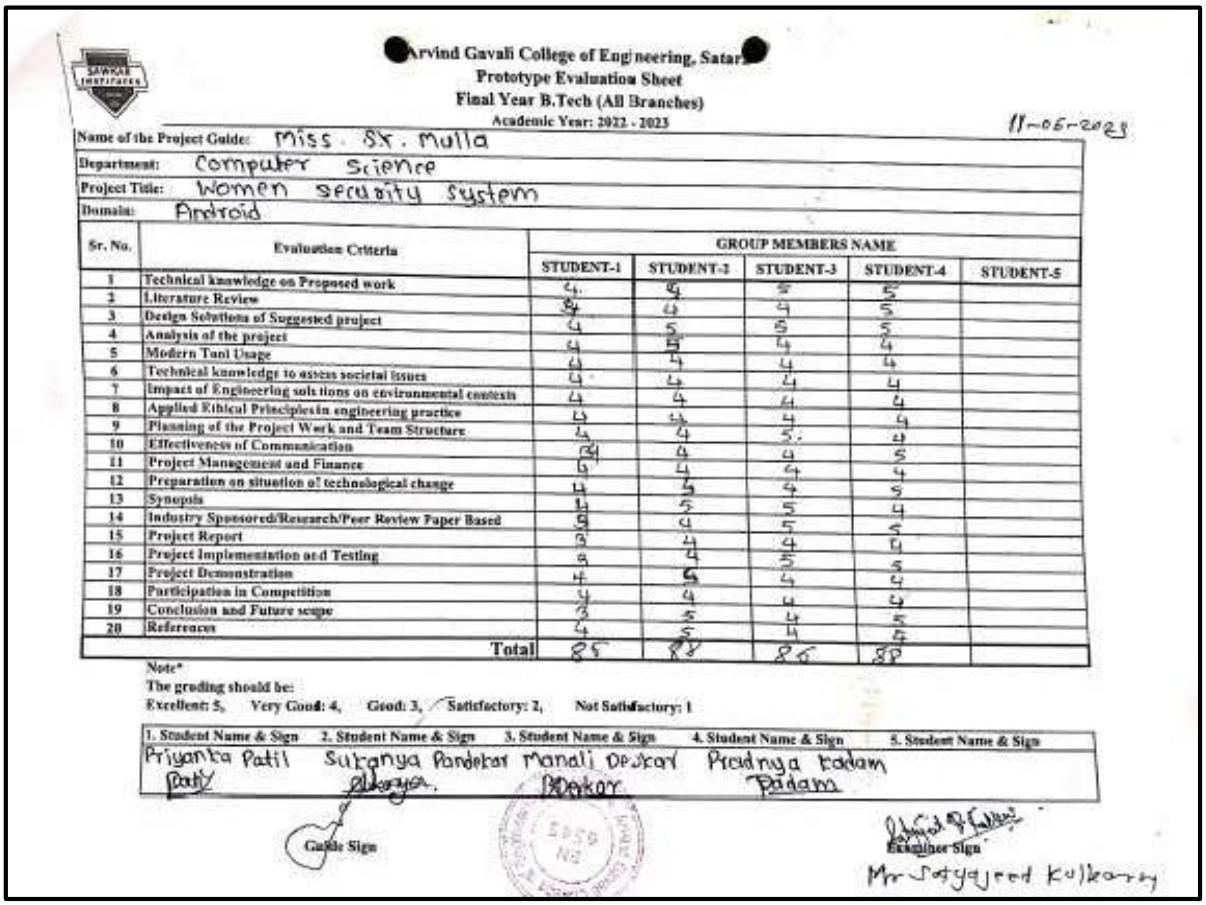
Samarth Educational Trust

Arvind Gavali College of Engineeering

Project Phase I Internal Evaluation Sheet 2022 - 2023

Computer Science and Engineering

Group No	Date of the Examination	Domain	Name	Title of the Project	1 Applied Engineering Knowledge (5)			2 Problem Analysis (5)			3 Effectiveness of Communication (5)			Total (15)	Total (50)
					Guide	HOD	Viewer	Guide	HOD	Viewer	Guide	HOD	Viewer		
1	18-01-2023	AI	Rahulkumar Varma	Custom named entity recognition using spacy	5	4	5	4	4	5	5	4	5	13.4	45
2		Web Development	Sanket Sunil Jambure	Medicine donation software	4	3	4	5	4	3	5	4	3	12	40
			Akanksha Gajanan kadam		5	5	3	3	5	3	5	3	3	11.2	37
			Shivani sunil jambkale		4	5	4	3	3	4	5	4	4	11.7	39
															0
3		AI	Rutwik Sayajirao Patil	Human activity and face recognition using machine learning and deep learning model	3	4	5	4	3	3	4	4	4	11.6	39
			Amruta Vyankat Chavan		4	4	4	4	4	3	5	3	4	12.9	43
			Tejaswini Santosh Pawar		4	4	3	3	4	4	5	4	3	11.4	38
			Anjali Shivaji Chavan		5	4	4	4	5	4	4	4	4	12.1	40
															0
4		Web Development	Trupti Dadaso Ghutukade	Inventory management system	3	4	4	4	4	4	5	4	4	12.2	41
			Rutuja Rajendra Deshmukh		4	4	4	3	4	4	4	5	3	11.6	39
			Rohan Rajendra Magare		3	4	4	4	5	3	4	4	5	11.2	37
			Harshal Bhimrao Waghmode		4	3	3	3	4	5	4	3	3	10.9	36
															0
5		AI	Rashmi Sadashiv Devkar	Real Time Face Mask Detection	3	3	4	4	3	4	5	3	3	11.8	39
			Pallavi Bharat Gujare		4	3	3	4	3	4	5	5	4	11.4	38
			Vedantika Hanmant Gurav		5	4	4	4	5	4	3	4	3	11.8	39
			Vaishnavi Gorakh Phadatare		4	5	3	4	5	5	4	3	4	12	40



Arvind Gavali College of Engineering, Satara
Prototype Evaluation Sheet
Final Year B.Tech (All Branches)
Academic Year: 2022 - 2023

11-05-2023

Name of the Project Guide: Miss. Sk. Mulla
Department: Computer Science
Project Title: Women security system
Domain: Android

Sr. No.	Evaluation Criteria	GROUP MEMBERS NAME				
		STUDENT-1	STUDENT-2	STUDENT-3	STUDENT-4	STUDENT-5
1	Technical knowledge on Proposed work	4	5	5	5	
2	Literature Review	4	4	4	5	
3	Design Solutions of Suggested project	4	5	5	5	
4	Analysis of the project	4	5	4	4	
5	Modern Tool Usage	4	4	4	4	
6	Technical knowledge to assess societal issues	4	4	4	4	
7	Impact of Engineering solutions on environmental contexts	4	4	4	4	
8	Applied Ethical Principlesin engineering practice	4	4	4	4	
9	Planning of the Project Work and Team Structure	4	4	5	4	
10	Effectiveness of Communication	4	4	4	5	
11	Project Management and Finance	4	4	4	4	
12	Preparation on situation of technological change	4	5	4	5	
13	Synopsis	4	5	5	4	
14	Industry Sponsored/Research/Peer Review Paper Based	4	4	5	5	
15	Project Report	4	4	4	4	
16	Project Implementation and Testing	4	4	5	5	
17	Project Demonstration	4	5	4	4	
18	Participation in Competition	4	4	4	4	
19	Conclusion and Future scope	4	5	4	5	
20	References	4	5	4	5	
	Total	85	89	86	89	

Note*
The grading should be:
Excellent: 5, Very Good: 4, Good: 3, Satisfactory: 2, Not Satisfactory: 1

1. Student Name & Sign	2. Student Name & Sign	3. Student Name & Sign	4. Student Name & Sign	5. Student Name & Sign
Priyanka Patil	Sukanya Pandekar	Manali Deokar	Preidnya Padam	

Guide Sign

Examiner Sign
Mr. Satyajeet Kulkarny

Fig B.2.2.3.e Project Evaluation Record

Process to assess individual and team performance (05)

Project assesment is the process of evaluating the performance of individual and an entire team. Performance evaluation is done to get a clear idea of how well the individual and team's skills are working together, motivating them and providing suggestion for improving individual and team performance.

The assesment evaluation can be done by using assesment method like individual and team performance questionnaires and present in front of RR committee. Students need to score more than 60% for continuing to content work otherwise consult with guide. After reworking again need to present infront of RR committee and will start to do further work.The process to assess individual and team performance is shown in Fig. 2.2.3e.

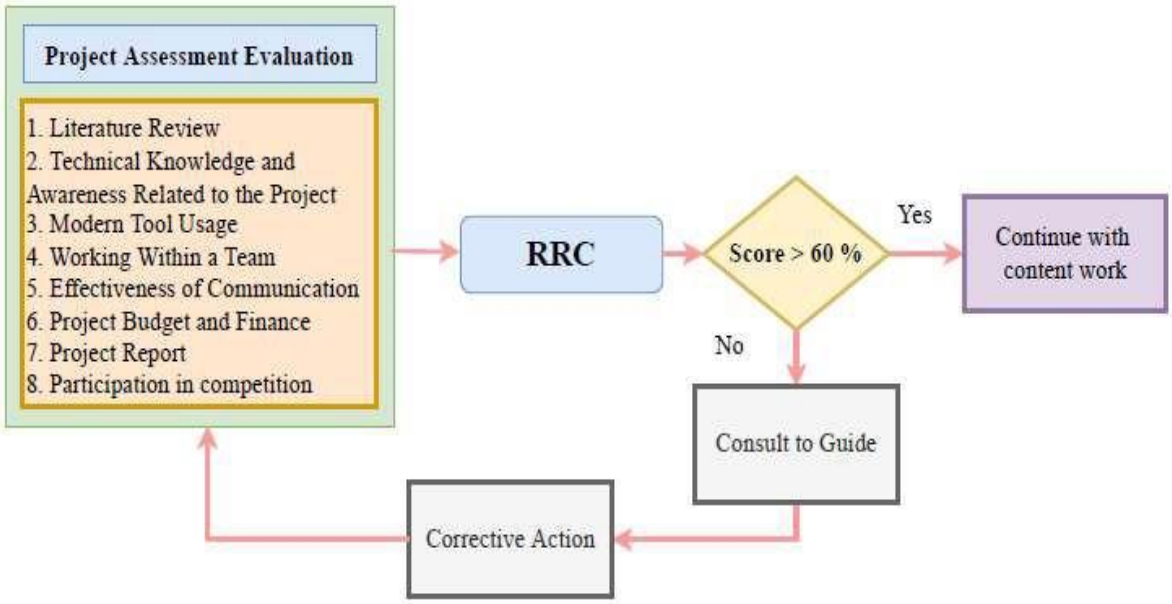
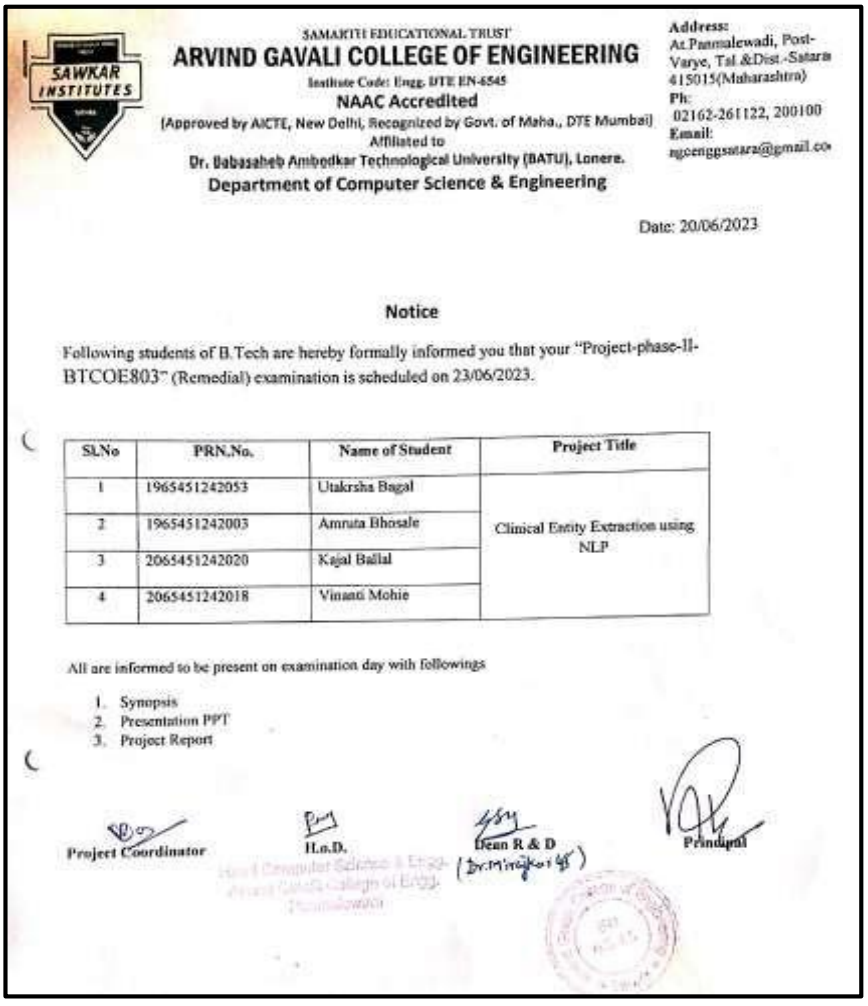


Figure B.2.2.3.f: Student Performance Evaluation Mechanism



SAMARTH EDUCATIONAL TRUST'S
ARVIND GAVALI COLLEGE OF ENGINEERING
Institute Code: Engg. DTE EN-6545
NAAC Accredited
(Approved by AICTE, New Delhi, Recognized by Govt. of Maha., DTE Mumbai)
Affiliated to
Dr. Babasaheb Ambedkar Technological University (BATU), Lonere.
Department of Computer Science & Engineering

Address: At.Panmalewadi, Post-Varye, Tal.&Dist.-Satara 415015(Maharashtra)
Ph: 02162-261122, 200100
Email: agceneggsatara@gmail.co

Date: 20/06/2023

Notice

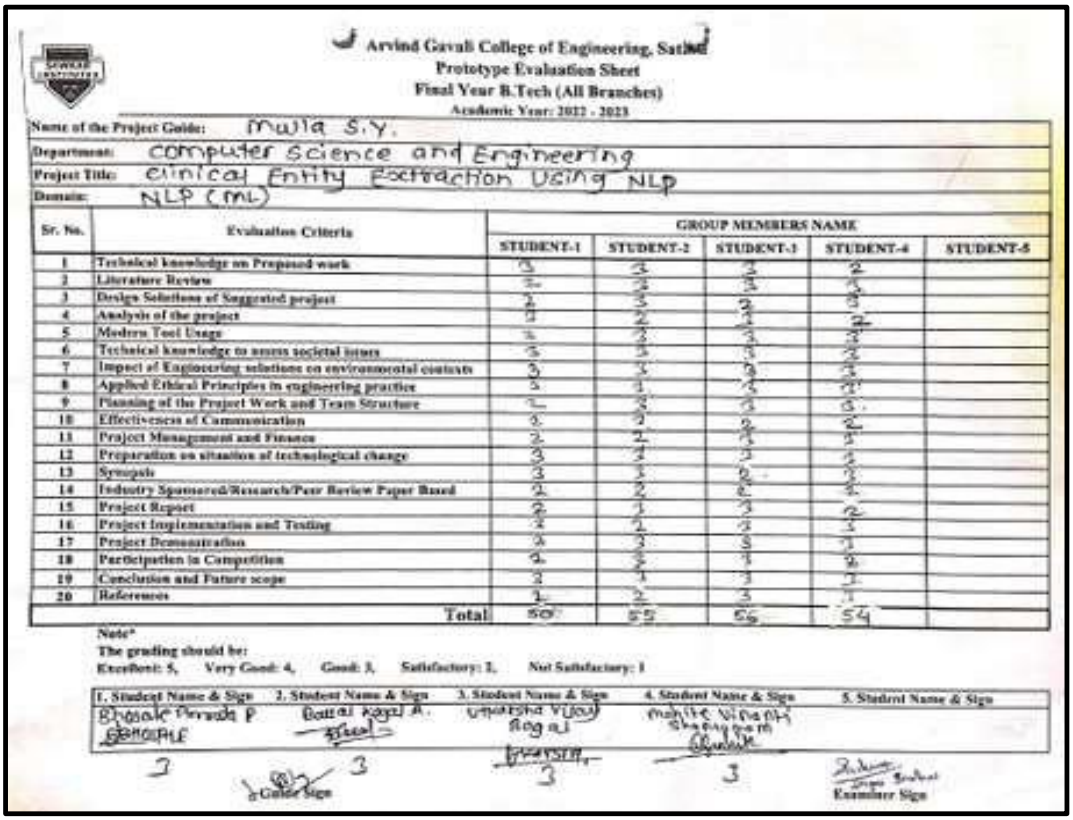
Following students of B.Tech are hereby formally informed you that your "Project-phase-II-BTCOE803" (Remedial) examination is scheduled on 23/06/2023.

Sl.No	PRN.No.	Name of Student	Project Title
1	1965451242053	Utakrsha Bagal	Clinical Entity Extraction using NLP
2	1965451242003	Amruta Bhosale	
3	2065451242020	Kajal Ballal	
4	2065451242018	Vinami Mohie	

All are informed to be present on examination day with followings

1. Synopsis
2. Presentation PPT
3. Project Report

Project Coordinator H.o.D. Dean R & D Principal



Arvind Gavali College of Engineering, Satara
Prototype Evaluation Sheet
Final Year B.Tech (All Branches)
Academic Year: 2022 - 2023

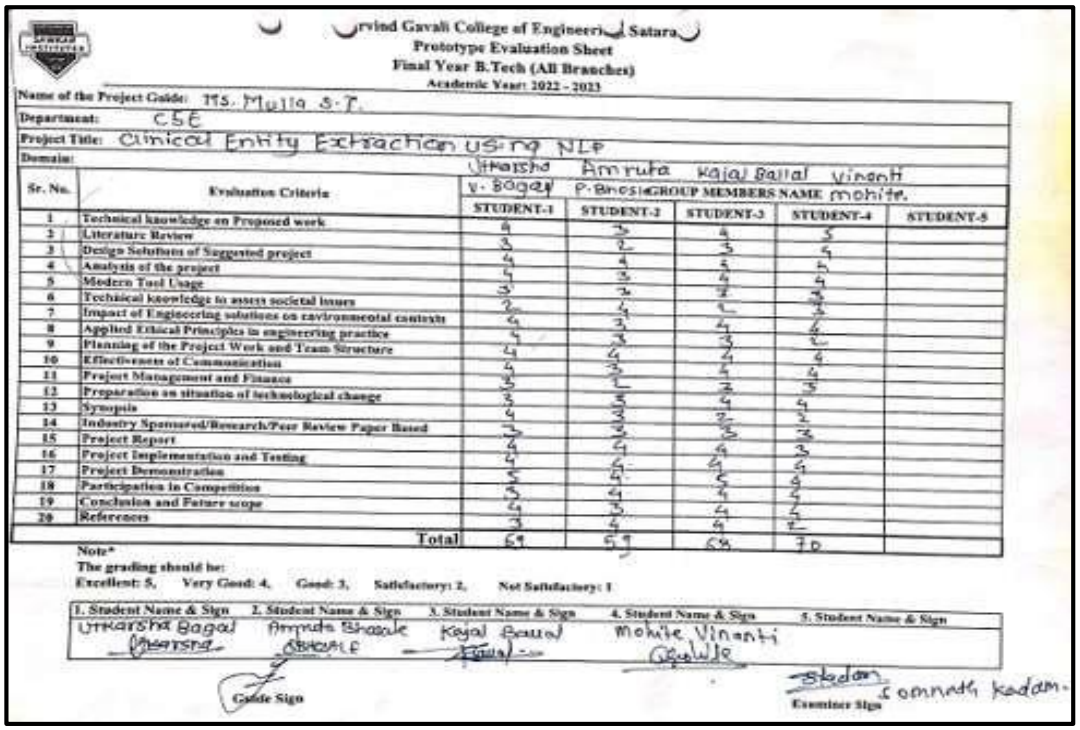
Name of the Project Guide: Mulla S.Y.
Department: Computer Science and Engineering
Project Title: Clinical Entity Extraction Using NLP
Domain: NLP (ML)

Sr. No.	Evaluation Criteria	GROUP MEMBERS NAME				
		STUDENT-1	STUDENT-2	STUDENT-3	STUDENT-4	STUDENT-5
1	Technical knowledge on Proposed work	3	3	3	2	
2	Literature Review	2	3	3	3	
3	Design Solutions of Suggested project	2	3	3	3	
4	Analysis of the project	3	2	3	2	
5	Modern Tool Usage	2	3	3	3	
6	Technical knowledge to assess societal issues	3	3	3	3	
7	Impact of Engineering solutions on environmental contexts	3	3	3	3	
8	Applied Ethical Principles in engineering practice	3	3	3	3	
9	Planning of the Project Work and Team Structure	2	3	3	3	
10	Effectiveness of Communication	3	3	3	2	
11	Project Management and Finance	2	2	3	3	
12	Preparation on situation of technological change	3	3	3	3	
13	Synopsis	3	3	2	3	
14	Industry Sponsored/Research/Peer Review Paper Based	2	2	2	2	
15	Project Report	2	3	3	2	
16	Project Implementation and Testing	3	3	3	3	
17	Project Demonstration	3	3	3	3	
18	Participation in Competition	2	3	3	2	
19	Conclusion and Future scope	2	3	3	3	
20	References	3	3	3	3	
	Total	50	55	56	54	

Note*
The grading should be:
Excellent: 5, Very Good: 4, Good: 3, Satisfactory: 2, Not Satisfactory: 1

1. Student Name & Sign	2. Student Name & Sign	3. Student Name & Sign	4. Student Name & Sign	5. Student Name & Sign
Bhosale Pranada P	Bagal Kajal A.	Umarsha Vijay Bagal	Mohite Vinanti Bhagwan	

3 3 3 3
Guide Sign Examiner Sign



Arvind Gavali College of Engineering, Satara
Prototype Evaluation Sheet
Final Year B.Tech (All Branches)
Academic Year: 2022 - 2023

Name of the Project Guide: Ms. Mulla S.Y.
Department: CSE
Project Title: Clinical Entity Extraction using NLP
Domain:

Sr. No.	Evaluation Criteria	GROUP MEMBERS NAME: Umarsha V. Bagal; Amruta P. Bhosle; Kajal A. Bagal; Vinanti Bhagwan Mohite.				
		STUDENT-1	STUDENT-2	STUDENT-3	STUDENT-4	STUDENT-5
1	Technical knowledge on Proposed work	4	3	4	3	
2	Literature Review	3	2	3	4	
3	Design Solutions of Suggested project	4	4	5	4	
4	Analysis of the project	4	3	4	4	
5	Modern Tool Usage	3	3	3	3	
6	Technical knowledge to assess societal issues	2	4	2	3	
7	Impact of Engineering solutions on environmental contexts	4	3	4	4	
8	Applied Ethical Principles in engineering practice	4	3	3	2	
9	Planning of the Project Work and Team Structure	4	4	4	4	
10	Effectiveness of Communication	4	3	4	4	
11	Project Management and Finance	3	2	3	3	
12	Preparation on situation of technological change	3	3	4	4	
13	Synopsis	4	3	2	2	
14	Industry Sponsored/Research/Peer Review Paper Based	3	3	3	2	
15	Project Report	4	4	4	3	
16	Project Implementation and Testing	4	4	4	4	
17	Project Demonstration	3	4	5	4	
18	Participation in Competition	3	4	4	4	
19	Conclusion and Future scope	4	3	4	4	
20	References	3	4	4	4	
	Total	69	59	64	70	

Note*
The grading should be:
Excellent: 5, Very Good: 4, Good: 3, Satisfactory: 2, Not Satisfactory: 1

1. Student Name & Sign	2. Student Name & Sign	3. Student Name & Sign	4. Student Name & Sign	5. Student Name & Sign
Umarsha Bagal	Amruta Bhosale	Kajal Bagal	Mohite Vinanti	

Guide Sign Examiner Sign Somnath Kadam.

Figure B.2.2.3.g : Student Performance Re-Evaluation Mechanism

E. Quality of completed projects/working prototypes (05)

A committee of R&D head, Head of the Department, and Supervisorassess the quality of projects and select the best project each year based on the following parameters.

Table B.2.2.3 i. Best Project Evaluation Scheme

Sr. No	Performance Indicator	Marks
1	Problem Statement& Solution to Societal /Industry Problem	10 M
2	Design/Modern tool/Technology Usage	10M
3	% CO Attainment	10M
4	Question and Answer	10M

CAY m1(2022-23):

Table B.2.2.3 j. Three Best Project

Group No	Name of Student	Name of Guide	Title of Project
PRGROUP7	Sukanya Pandekar Pradnya Kadam Manali Devkar Priyanka Patil	Ms. Mulla S.Y.	Women Security System
PRGROUP6	Vinayak Waghmare Snehal Sarjerao Kamble Dipali Aba Gonjari	Mr. GujarV. B	Dengu maleriya prediction using cnn

PRGROUP2	Sanket Sunil Jambure Shriyash Jadhav Akanksha kadam Shivani Jambhale Pandurang Mohite	Mrs. Mandhare R.M.	Medicine donation software

CAY m2(2021-22):

Table B.2.2.3 k. Three Best Project

Group No	Name of Student	Name of Guide	Title of Project
PRGROUP16	PranitaDalavi MuskanDange AaratiKatkar	Ms. Mulla S.Y.	SPYDER BOT
PRGROUP12	AshwiniMore GauriPawar Kiran Yadav Shubhangi More	Mr. GujarV. B	IoT-Based Smart Irrigation System to Provide Ideal Condition for Crops
PRGROUP8	ShivanjaliJadhav KavitaShinde DivyaVelapure PratikshaBhosale	Mrs. Mandhare R.M.	Malnutrition Prediction Using Image Processing

CAY m3(2020-21):

Table B.2.2.3 l. Three Best Project

Group No	Name of Student	Name of Guide	Title of Project
PRGROUP9	PoojaBansode AkshataGodse AishwarryaKothawale VidyaParihar	Dr. Mirajkar G S	A Machine Learning Model For Venue Exploration and Recommendation
PRGROUP10	AniketPawar RohitWagh RutujaDhanawade PayalPardeshi	Ms. Mulla S.Y	Chest X-Ray Abnormalities Detection
PRGROUP8	Harshada Mane ArchanaPawar NamrataGujar ShrutiBhosale	Dr. Bhosale V.K.	Automatic Vehicle Accident Detection and Rescue System

Figure B.2.2.3.g Intra-College Project Competition

Figure B.2.2.3.h "AVISHAKAR" University Project Participation & Prizes

Spiderbot

Smart Dustbin

Automatic Street Lamp Lightning

Figure B.2.2.3. i Photo of Best Project

F. Evidences of papers published/Awards received by projects etc. (02)

Table B.2.2.3 n. Awards in ProjectCompitation

Sr. No.	Academic Year	Name of the Competition	Number of students participated
1	2022-23	National Level Project Competition-KJSIT-IET-INTECH-2K23 Poster cum Project Competition 25/03/2023	04
2		State Level Project Compitation- Rotary Club of Satara	02
3		University Level Project Competation-Spectrum 2k23	02
1	2021-22	National Level Project Competition (by KJ Somaiya Institute of Engineering and Information Technology Sion,Mumbai)16/04/2022	04
2		National Level Project Competition (by BharatiVidypeeth College of Engineering Pune)21/05/2022	01
3		National Level Project Competition (by Yashodha Technical Campus Satara 9/05/2022)	05
4		Internal Hackthon of Smart India Hackthon 2022) 28/04/2022	06
5	2020-21	DiPEX (Project Presentation By TantrashikshanVidyarthiKarya,Kolapur Division and Dipex) 20-23/05/2021	03
6		AVISHKAR 2019-2020 Zonal Level Competition by DBATU	04
7		3 Days Online Code mania by ADCET, Ashta	01

International Conference on Innovation and Recent Trends in Engineering and Science
(ICIRTES-2023)
10th and 11th June

Certification of Participation

This is to certify that

Shravani Kulkarni, Sarvesh Kanase, Kanse Siddhi, Sahil Jadhav

has successfully participated and presented the paper titled

Moving from password to authenticatora (certcorna)

Organized by

Arvind Gavali College of Engineering, Satara

In association with

Department of Medical Biology Faculty of Medicine, Nigde, Omer Halisdemir University, Nigde, Turkey

Dr. Zeliha Selamoglu	Dr. Gayatri Mirajkar	Dr. Vilas Pharande	Hon. Nishant Gavali
Convener	**Convener**	**Principal**	**Secretary**
Omer Halisdemir, Turkey	Arvind Gavali College of Engineering India	Arvind Gavali College of Engineering India	Samarth Educational Trust India

ISBN: 978-81-961931-0-2 ISBN: 978-81-961931-1-9

Phaltan Education Society's

COLLEGE OF ENGINEERING, PHALTAN

NAAC Accredited, Approved by AICTE New Delhi, DTE Mumbai and Govt. of Maharashtra, Affiliated to DBATU, Lonere and MSBTE, Mumbai

Shreemant Shivajirajenagar, Thakurki, Phaltan - 415 523, Dist. Satara (Maharashtra)

CERTIFICATE

Kurukshetra 2K23

"The Battle of Brains"

This certificate is proudly presented to

Mr./~~Miss.~~ Pratik Sawant for his/her participation in Poster presentation competition organised by Computer Engineering Department under State Level Technical Competition "Kurukshetra 2K23" held on 24th February 2023 and awarded Winner prize.

Event Co-ordinator | Prof. S. V. Kalel, Co-convener | Prof. G. V. Thombare, Convener | Prof. Dr. N. [illegible], Principal

Figure B.2.2.3.j Project Participation Certificate

Figure B.2.2.3. k Project Participation Certificate

2.2.4. Initiatives related to industry interaction (15)

The department of Computer Science & Engineering has made efforts in the direction of making students ready for the industry by enhancing their skill sets through training on recent tools and technologies. The said efforts are made through the following activities in collaboration with the industry.

A. Industry supported laboratories (05)

Table B. 2.2.4 a. Industry Suppoted Lab Details

S.No	Industry Attached Laboratories	Name of Company/Organization	Objective	Relevance to PO/PSO
1	UI/UX Lab	3 Star I.T Solutions Satara	1.To teach student Industry essential I.T. Skills 2. Areas of training include I.T. Infrastructure tools and software 3.The company also provides internship support.	PO1, PO3, PO4, PO5, PO12 PSO1

B. Industry involvement in program design and partial delivery of any regular courses for students (05)

a. Industrial Visits:

Industrial visits for the engineering students are an essential activity as per their curriculum to get a proper insight into how the real working environment of a company and its functionality at different levels. To go beyond academics, these visits are arranged to develop the insights of the students – attaining practical knowledge and their theoretical applications thereof

Objectives of Industrial Visits:

1. An opportunity to get exposure to real workstations, machines, and systems.
2. Acquaint students with interesting facts and new technologies.
3. Expert briefing about the functioning of machines and systems.

4. Increase practical awareness of various industrial sectors.
5. Opportunity to have a face-to-face session with technical or administrative experts of the organization to ask questions and clarify doubts. Understand the end-to-end process at all levels.
6. Opportunity to understand policies and practices of Industry in terms of production, quality, and service management.
7. Keeping these objectives at hand, the department organizes industrial visits which are within the framework of the curriculum.

Table B. 2.2.4 b.Industrial Visit

S.No	Academic Year	Batch	Name of Company Visited	Date of Visit	No. of Students
1	2022-23	2020-21	Nebula Technologies Pune	03rd March 2023	51
2	2022-23	2020-21	IIT Bombay	17th Dec 2022	47
3	2022-23	2018-19	Acme Infovision Systems Pvt. Ltd	12th Oct 2022	33
4	2021-22	2018-19	Walstar Technology Kolhapur	13th Feb 2019	42
5	2020-21	2017-18	Om v Sab IT Solutions Pune,Tcs ion Pune	12th Dec 2020	34
6	2019-20	2016-17	Bicsinfotech Pune	27th Oct 2019	47

After each industry visit, the department takes students' feedback. Feedback is considered to do the further improvement for the same. The format of feedback is shown below in Figure B.2.2.4a

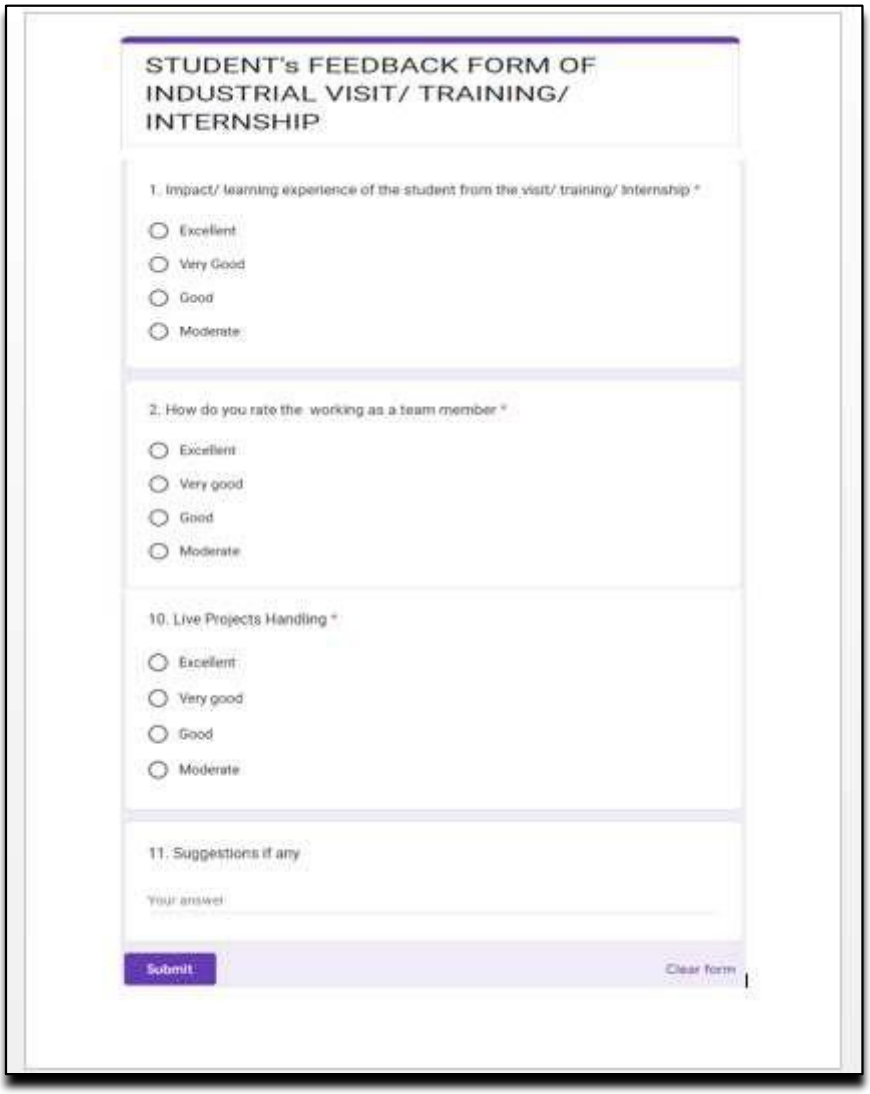


Figure 2.2.4 a Format of student feedback on industrial visit

b. Invited Industrial Talks- Resource person from industries in the specific domain of Computer Science & Engineering.

Figure 2.2.4 b. Industrial Talk Session

c. **Student Development Programs**- in collaboration withthe industry for skill/curriculum development.

Figure 2.2.4 c. Student Development Session

d. **Industry experts were invitedas judges for the project Exhibition.**

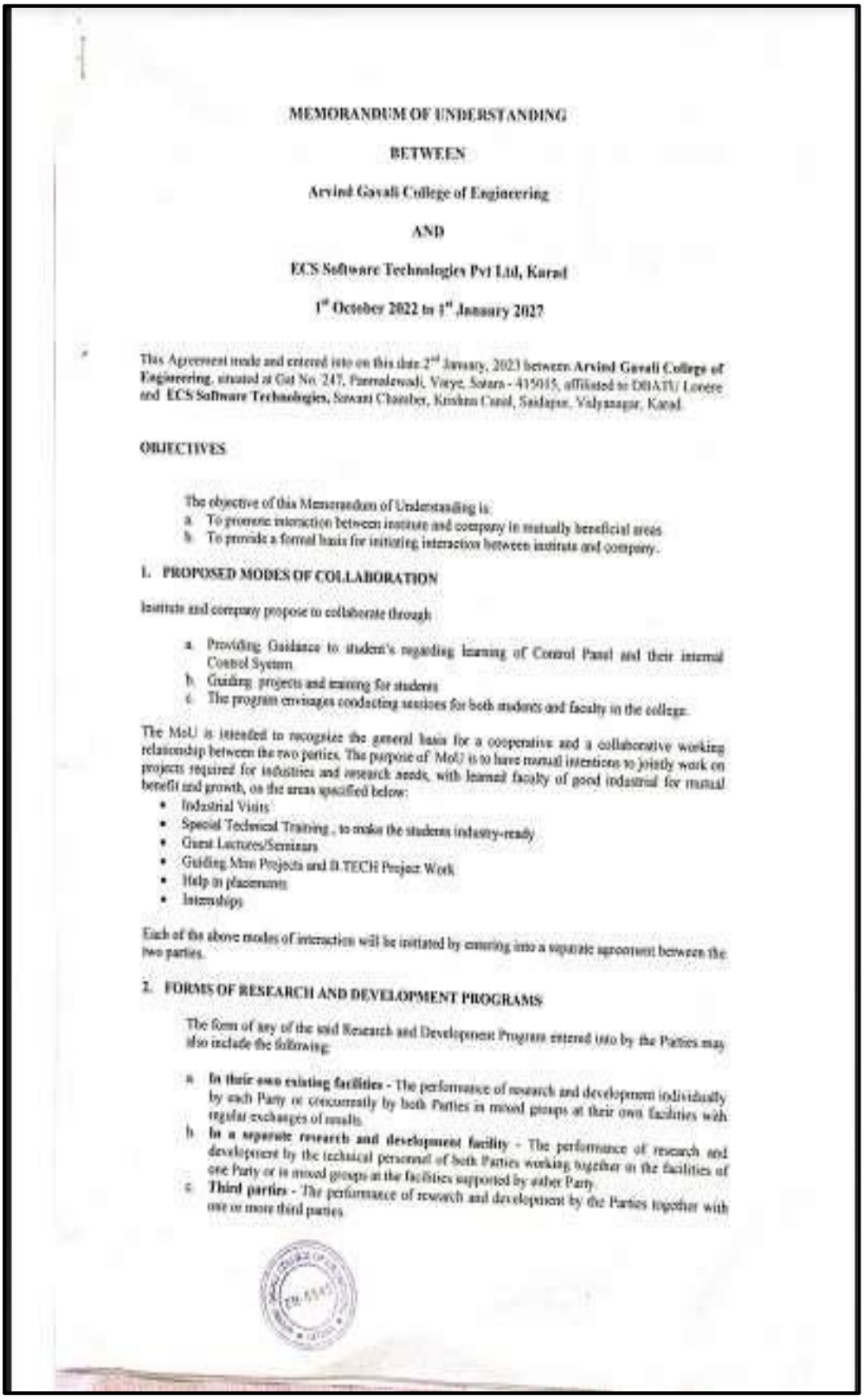
Figure 2.2.4 d .Industry Expert Visit for Projetc Exhibition

e. **MOUs with Industry**:

Following MOUs are signed with companies:

Table B. 2.2.4 c. Industry Institute MOUs

Sr. No.	Name of Company	Authorized Person	Duration
1.	AB Software Solutions Satara	Mr. Amar Shinde	10th Jan 2020 To 10th Jan 2025
2	Crescente Pune	Mr. Swaroop Shiras	20th Jan 2020 To 20th Jan 2025
3	Ideal ocean Technologies Satara	Mr. Darshan Lahoti	03rd Jan 2020 To 04th Jan 2025
4.	ECS Software Technologies Pvt.Ltd Karad	Mr. Rahul Pawar	1st October 2022- To 1st Jan 2027
5.	CAS Exim & Business Services	Mr. Amitkumar Bote	1st Jan 2022- To 1st Jan 2025
6.	Nebula Technologies	Mr. Raghunath Bade	2nd Jan 2023 To 1st Jan 2027
7.	Rapportsoft Consulting & Technology Pvt.Ltd	Mr. Shivraj Gaikwad	20th May 2023 To 20th May 2027



MEMORANDUM OF UNDERSTANDING

BETWEEN

Arvind Gavali College of Engineering

AND

ECS Software Technologies Pvt Ltd, Karad

1st October 2022 to 1st January 2027

This Agreement made and entered into on this date 2nd January, 2023 between **Arvind Gavali College of Engineering**, situated at Gat No. 247, Panmalewadi, Vinye, Satara - 415015, affiliated to DBATU Lonere and **ECS Software Technologies**, Sawant Chamber, Krishna Canal, Saidapur, Vidyanagar, Karad.

OBJECTIVES

The objective of this Memorandum of Understanding is:

a. To promote interaction between institute and company in mutually beneficial areas
b. To provide a formal basis for initiating interaction between institute and company.

1. PROPOSED MODES OF COLLABORATION

Institute and company propose to collaborate through:

a. Providing Guidance to student's regarding learning of Control Panel and their internal Control System
b. Guiding projects and training for students
c. The program envisages conducting sessions for both students and faculty in the college.

The MoU is intended to recognize the general basis for a cooperative and a collaborative working relationship between the two parties. The purpose of MoU is to have mutual intentions to jointly work on projects required for industries and research needs, with learned faculty of good industrial for mutual benefit and growth, on the areas specified below:

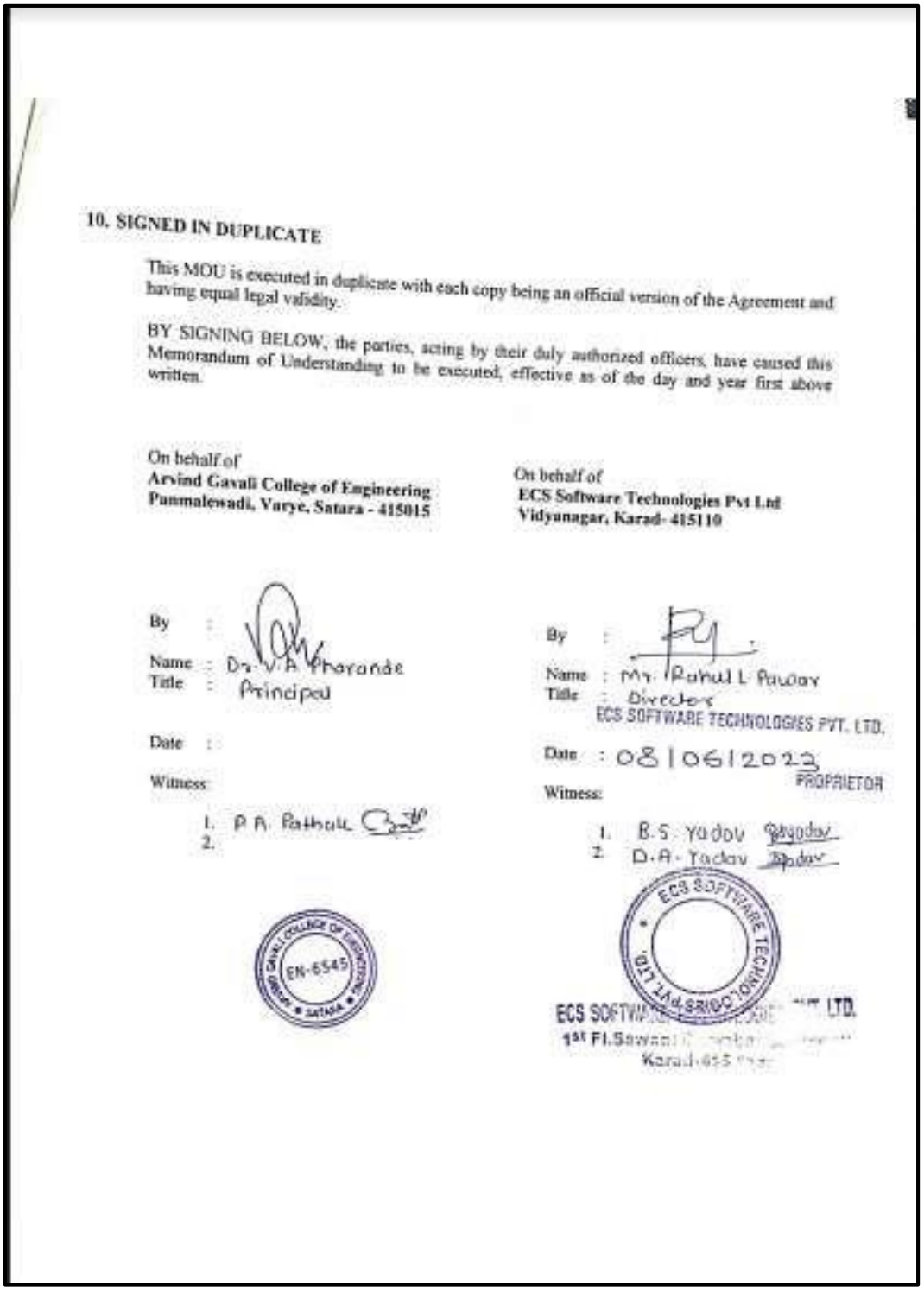
- Industrial Visits
- Special Technical Training , to make the students industry-ready
- Guest Lectures/Seminars
- Guiding Mini Projects and B.TECH Project Work
- Help in placements
- Internships

Each of the above modes of interaction will be initiated by entering into a separate agreement between the two parties.

2. FORMS OF RESEARCH AND DEVELOPMENT PROGRAMS

The form of any of the said Research and Development Program entered into by the Parties may also include the following:

a. **In their own existing facilities** - The performance of research and development individually by each Party or concurrently by both Parties in mixed groups at their own facilities with regular exchanges of results.
b. **In a separate research and development facility** - The performance of research and development by the technical personnel of both Parties working together in the facilities of one Party or in mixed groups at the facilities supported by other Party.
c. **Third parties** - The performance of research and development by the Parties together with one or more third parties.



10. SIGNED IN DUPLICATE

This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

On behalf of
Arvind Gavali College of Engineering
Panmalewadi, Varye, Satara - 415015

By :
Name : Dr. V. A. Pharande
Title : Principal

Date :

Witness:
1. P A Pathak
2.

On behalf of
ECS Software Technologies Pvt Ltd
Vidyanagar, Karad- 415110

By :
Name : Mr. Rahul L. Pandav
Title : Director
ECS SOFTWARE TECHNOLOGIES PVT. LTD.

Date : 08/06/2023
PROPRIETOR

Witness:
1. B.S. Yadav
2. D.A. Yadav

ECS SOFTWARE TECHNOLOGIES PVT. LTD.
1st Fl. Sawant
Karad-415

Figure 2.2.4 d. Memorandum of Understanding

f. Impact analysis of industry institute interaction and actions taken thereof (05)

Table B.2.2.4.d: Initiatives related to Industry Interaction

Sr. No	Industry Interaction Initiative	Industry Involved	Outcome	Impact Analysis
1	Invited Talks from Industry Experts	Guest lecture on culture of MNC	The student understood the culture and skill set of the industry	Enrichment of knowledge as per current industry needs
2	Invited Talks from Industry Experts	A career in Software Testing: Prerequisite & Opportunities	Students got knowledge about the Software testing industry and prerequisites to do career in this domain	Placement of a student in the Software Testing Domain
3	Industrial Visit	Walstart	Study of Industrial IT Projects	Selected problem statement from industry
4	Industrial Visit	Nebula	Study of Industrial IT Projects	Received the project mentorship
5	Industrial Visit	Rayat IT Park	Study of Industrial IT Projects	Enhance research thinking in students

Some Photographs of Industry Interactions:

Figure 2.2.4 e Industry Visit at Nebula Pvt. Ltd Pune

Figure 2.2.4 f Industry Visit at Rayat Science and Innovation Activity Centre Satara

Figure 2.2.4 g Industry Visit IIT Bombay Techfest 2022

Fig 2.2.4 h Industry Expert's Talk

2.2.5 Initiatives related to internship / Summer Training

Industrial/Internship/Summer Training:

A. Industrial/Internship/Summer Training Course Objectives

1. To provide industry exposure to student
2. To make them aware working culture of the Industry
3. To provide knowledge of design, manufacturing, quality, and testing of products

B. Industrial/Internship/Summer Training Course Outcomes:

a) Understand industrial environment and practices.
b) Work on the specific project and complete it in the stipulated period.
c) Able to understand the importance of quality of product and human safety.
d) Apply theory and practical knowledge while dealing with the industrial problem.

C. Implementation of Industrial Training:

1. The placement department approaches various companies every semester to provide internships to students. Some companies where students undergo are mentioned in the Table B 2.2.4g.
2. Proper guidelines, suggestions, and scope of industry internship/summer training are provided to students.
3. Help students to select the industry for summer training as per their domain of interest.
4. Based on the inputs by students, proper communication is carried out with the concerned industry.
5. Department provides the recommendation letter (Figure B.2.2.5b) and other necessary support to students for availing of industry internships.
6. All the students are required to submit their training reports along with a certificate from the concerned industry.

Table B 2.2.4 e Industry Interaction Details

Sr. No	Company Name
1	KLJ Web Technologies, Pune
2	Revolution Infosystem Pune
3	Gigante Technologies Ltd, Pune
4	Maestero Intellect Pvt Ltd Pune
5	Travnor Solutions Pvt Ltd Pune
6	Cravita Technologies India Pvt Ltd Pune
7	Vision Multimedia, Pune
8	Source Code Technologies Pvt Ltd pune
9	Pristine Technology, Pune
10	Perpetual Invention, Pune
11	Om V sab IT Solutions, Pune
12	Mythos technology Pune
13	Cummins India Pvt Ltd Phaltan
14	Atul Software, Pune
15	In Source Technology, Pune
16	Infodeal Technologies Pune
17	Unique Software, Karad
18	3Star IT Solutions , Satara
19	Spectrum SoftwareSatara
20	USAS Solution, Satara
21	Computer World, Kolhapur
22	Inventive Infotech, Satara

Industry Internship Details BE (2022-23):

Sr. No.	Name of Student	Name of Company
1	Varma Rahulkumar Rajendraprasad	2020 Analytics Insight pvt.Ltd
2	Shivlal Arun Yadav	Edreams Solution, Pune
3	Prasanna Dattatray Nikam	Edreams Solution, Pune
4	Pratiksha Jagannath Kadam	IncodingTech Pune
5	Swaraj Bipinchandra Surve	D.Soft Infosystem Pune
6	Bhojane Akash Dattatray	Cavalry Archer Software
7	Wagh Prajwal Tulsidas	IFAS Edutech pvt.Ltd, Pune
8	Chavhan Priti Santosh	Seed Infotech Ltd Pune
9	Chavhan Sayali Vijay	Seed Infotech Ltd Pune
10	Tushar Sarjerao Lohar	IncodingTech Pune
11	Adesh Yuvraj Gole	AB Software Solution
12	Snehal Sarjerao Kambale	Oytie pvt.Ltd, Pune
13	Vinayak Jayawant Waghmare	Oytie pvt.Ltd, Pune
14	Dipali Aba Gonjari	Oytie pvt.Ltd, Pune
15	Sapna Hanmant Jadhav	Seed Infotech Ltd Pune
16	Madhuri Sambhaji Bhosale	IncodingTech Pune
17	Sakshi Duryodhan Pawar	IncodingTech Pune
18	Rupali Manohar Mulik	Test Yantra Software, Pune
19	Pravinkumar Chandkant Mahoor	IncodingTech Pune
20	Harshal Subhash Deshmukh	AB Software Solution, Satara
21	Vinita Vishnu Lad	Test Yantra Software
22	Kishori Dhanaji Rajmane	Nebula Technology Pune
23	Jadhav Rutuja Ravikant	Nebula Technology Pune
24	Priyanka Sandip Gaikwad	inYantra Technology pvt.Ltd
25	Rutwik Sayajirao Patil	IncodingTech Pune
26	Chavhan Anjali Shivaji	Academy of Skill Development
27	Tejaswini Santosh Pawar	Academy of Skill Development
28	Chavhan Amruta Vyankat	Test Yantra Software, Pune
29	Devkar Rashmi Sadashiv	Nebula Technology Pune
30	Gurav Vedantika Hanmant	AppKida Technology Pune

31	Gujare Pallavi Bharat	Nebula Technology pune
32	Phadatare Vaishnavi Gorakh	Nebula Technology Pune
33	Aughade Pranav	Oytie pvt.Ltd, Pune
34	Mohite Vinanti Santaram	ASP OL Media Pvt.Ltd, Pune
35	Kajal Rajendra Ballal	Digitoonz Annimation, Pune
36	Bhosale Amruta Pradip	Techsum Technology Pune
37	Utkarsha Vijay Bagal	IncodingTech Pune
38	Mayuri Ramesh Magar	Jio Platform Limited, Pune
39	Utkarsh Mukund Jadhav	Jio Platform Limited, Pune
40	Mayuri Mohan Vibhute	TechnoBriliant Learning Solution, Pune
41	Shivani Sunil Jambhale	Test Yantra Software, Pune
42	Pandurang Vijay Mohite	IncodingTech Pune
43	Akanksha Gajanan Kadam	Test Yantra Software, Pune
44	Pradnya Bhagwan Kadam	Source Code Tech, Pune
45	Priyanka Dhondiram Patil	Alpha ICT LLP, Pune
46	Monali Arvind Devkar	Source Code Tech, Pune
47	Sukanya Sunil Pandekar	Borgward Technology
48	Shivani Ramesh Pawar	IncodingTech Pune
49	Shrutika Vaibhav Bhosale	IncodingTech Pune
50	Divya Ananda Yadav	ECS Software Technologies, Karad
51	Bhagyashri Sunil Yadav	ECS Software Technologies, Karad
52	Hable Rutuja Sarjerao	Oytie pvt.Ltd, Pune
53	Priyanka Chandrakant Bhosale	Oytie pvt.Ltd, Pune
54	Shraddha Amol Tarade	Oytie pvt.Ltd, Pune
55	Ghutukade Trupti Ddaso	AppKida Technology,Pune
56	Deshmukh Rutuja Rajendra	Nebula Technology Pune
57	Sanket Sunil Jambhure	Test Yantra Software, Pune
58	Prajwal Hemant Sawant	Seed Infotech Ltd Pune
59	Suyog Vijay Nikam	Seed Infotech Ltd Pune
60	Pratiksha Jagannath Kadam	FuelForNation, Pune

Industry Internship Details BE (2021-22):

Sr. No.	Name of the Candidate	Name of the Company
1	GHADAGE VISHAKA HANUMANT	VST INFOTECH, PUNE
2	KAMBALE SURAJ PRADIP	WEBSOFTERA IT SERVICES & MARKETING PRIVATE LIMITED, PUNE
3	SHINDHARSHAD PRASHANT	WEBOTIX TECHONOLOGY SATARA
4	KULAL RAKSHA NARAYAN	MYTHOS TECHNOLOGY PUNE
5	BENDRE PRATIK	LUNAR WEBVENTURES
6	GHADAGE MEGHA KRISHNAT	VST INFOTECH, PUNE
7	SHENDAGE ANKITA RAMDAS	MH11CODERS, SATARA
8	PISAL VAISHNAVI KIRAN	VST INFOTECH, PUNE
9	KHAMKAR SHRADHA RAJENDRA	OYTIE PVT LTD PUNE
10	GORE MONIKA MOHAN	MYTHOS TECHNOLOGY PUNE
11	JADHAV AKSHADA SANJAY	OYTIE PVT LTD PUNE
12	JADHAV NIKITA RAJENDRA	MYTHOS TECHNOLOGY PUNE
13	KATKAR AARTI VILAS	BLUEHOLE (OPC) PVT LTD
14	KORADE SHUBHAM ASHOK	MICRODYANAMIC SOFTWARE PVT LTD
15	BANE SAURABH NATHAJI	MICRODYANAMIC SOFTWARE PVT LTD
16	GAIKWAD SHUBHAM BHARAT	MYTHOS TECHNOLOGY PUNE

17	METKAR VISHVANATH TATOBA	VMEDULIFE PRIVATE LIMITED PUNE
18	WASKE DIVYA KISAN	MARKETS & MARKETS PUNE
19	DONGARE SWAROOP MANGESH	MICRODYANAMIC SOFTWARE PVT LTD
20	ANANDE MAHESH ABASAHEB	HEXAWARE TECHNOLOGIES PUNE
21	ATTAR SUJAN SAMIR	DIGITIZEBRAND HUB(INDIA) PVT LTD PUNE
22	JIRAGE KUNAL SANDEEP	MH11CODERS, SATARA
23	BHISE TEJSWINI BHIMRAO	WEBOTIX TECHONOLOGY SATARA
24	JADHAV SHIVANJALI DILIP	MICRODYANAMIC SOFTWARE PVT LTD
25	GHORPADE SWARUPA KISHOR	MYTHOS TECHNOLOGY PUNE
26	PISAL KAUSTUBH SHAHAJI	MYTHOS TECHNOLOGY PUNE
27	KAMBLE SHILPA RAM	MICRODYANAMIC SOFTWARE PVT LTD
28	NAZARKAR KAJAL UMESH	3STAR SOLUTIONS SATARA
29	SHINDE AKASH GOPINATH	MYTHOS TECHNOLOGY PUNE
30	SHINDE KAVITA MOHAN	MYTHOS TECHNOLOGY PUNE
31	CHAVAN POOJA NANASAHEB	FIBIT INFOTECH PVT LTD PUNE
32	DIVYA DINESH VELAPURE	MYTHOS TECHNOLOGY PUNE
33	BHOSALE PRATIKSHA CHANGADEV	MYTHOS TECHNOLOGY PUNE

34	MANE NILAM DATTATRAY	CAS EXIM & BUSINESS SERVICES SATARA
35	PARDESHI SHIVANI SUNIL	MICRODYANAMIC SOFTWARE PVT LTD
36	SUL SUPRIYA ARJUN	AXOLOTIS INNOVATIVE TECHNOLOGY PUNE
37	SHRIKANT VITTHAL SHEJWAL	2020 ANALYTICS INSIGHTS PUNE
38	WASKE SHWETA AVINASH	MICRODYANAMIC SOFTWARE PVT LTD
39	MORE ASHWINI SAYAJI	CLOUD NEXT VISION LABS & TECHNOLOGIES
40	PAWAR GAURI MOHAN	AB SOFTWARE SOLUTIONS PVT LTD SATARA
41	YADAV KIRAN SURYAKANT	MHASWADKAR ELECTRONICS INDUSTRIES PVT LTS
42	DAMAKALE AKANKSHA SANJAY	MICRODYANAMIC SOFTWARE PVT LTD
43	PATIL SHIVJYOTI DILIP	MICRODYANAMIC SOFTWARE PVT LTD
44	MORE SHUBHANGI UTTAM	LOGICON TECHNOSOLUTIONS PVT LTD PUNE
45	DALAVI PRANITA TUKARAM	THYSSENKRUP MATERIAL IT SERVICES INDIA PVT MUMBAI.
46	SHUBHAM NIKAM	3 STAR IT SOLUTIONS SATARA
47	PATIL ANURADHA POPAT	TECHNOCRAT PVT LTD, KHARADI

48	PATIL PRANITA SANJAY	ROCKLIKE TECHVENTURE,SATARA
49	TAPASE YOGESH HARISH	AGRYA ASSOCIATES PVT LTD
50	KADAM SAURABH SANJAY	QSPIDER PUNE
51	YERUDKAR SAURABH	ADITYA IT SOLUTIONS KOLHAPUR
52	YEWALE SANKET SUBHASH	QSPIDER PUNE
53	MOMIN ALFARAHAS FARUKH	INVENTIVE INFOTECH,SATARA
54	KADAM NISHANT RAJENDRA	OYTIE PVT LTD PUNE
55	CHAVAN DARSHAN MADHAV	OYTIE PVT LTD PUNE
56	HIVARKAR KOMAL ARJUN	DRDO, ALANDI ROAD PUNE
57	BORATE SWAPNALI DILIP	AXOLOTIS INNOVATIVE TECHNOLOGY PUNE
58	DANGE MUSKAN SHAKIL	DATA ENTRICA
59	SONAWANE SHREYASH SANTOSH	OYTIE PVT LTD PUNE

Student Training Information BE (2020-2021)

Sr. No.	Name of the Candidate	Name of the Company
1	KADAM NIKITA SHANKAR	KLJ WEB TECHNOLOGIES PUNE
2	MANE SAPANA RAJENDRA	REVOLUTION INFOSYSTEM PUNE
3	INGAWALE PRATIKSHA DEVENDRA	REVOLUTION INFOSYSTEM PUNE
4	GORE POONAM VISHWAS	KLJ WEB TECHNOLOGIES, PUNE
5	SHIRKE PRATIKSHA SANTOSH	GIGANTE TECHNOLOGIES LTD, PUNE
6	BHOSALE SHRUTI SANJAY	MAESTERO INTELLECT PVT LTD PUNE
7	PAWAR POOJA BALASAHEB	TRAVNOR SOLUTIONS PVT LTD PUNE
8	PHADTARE MAYURI NANASAO	TRAVNOR SOLUTIONS PVT LTD PUNE
9	KSHIRSAGAR AKSHAY VINAYAK	CRAVITA TECHNOLOGIES INDIA PVT LTD PUNE
10	VEDPATHAK POONAM JAGANNATH	VISION MULTIMEDIA, PUNE
11	PATIL SHIVANI ABHIJIT	REVOLUTION INFOSYSTEM PUNE
12	YADAV SHIVANI RAHUL	SOURCE CODE TECHNOLOGIES PVT LTD PUNE
13	MALUSARE SONALI VIJAY	PRISTINE TECHNOLOGY, PUNE
14	RAUT POURNIMA YUVRAJ	PRISTINE TECHNOLOGY, PUNE

15	GAIKWAD TEJASWINI PRAKASH	PRISTINE TECHNOLOGY, PUNE
16	NIKAM PRATIKSHA DATTATRAY	PRISTINE TECHNOLOGY, PUNE
17	PARDESHI PAYAL GOPAL	PERPETUAL INVENTION, PUNE
18	WAGH ROHIT PRAMOD	PERPETUAL INVENTION, PUNE
19	PAWAR ANIKET SANJAY	PERPETUAL INVENTION, PUNE
20	DHANAWADE RUTUJA RAJENDRA	PERPETUAL INVENTION, PUNE
21	KADAM BHAVANA BHAGPAN	SOURCE CODE TECHNOLOGIES PVT LTD PUNE
22	SHINDE RUTUJA SANJAY	SOURCE CODE TECHNOLOGIES PVT LTD PUNE
23	KALANGE CHITRANJALI ADIK	SOURCE CODE TECHNOLOGIES PVT LTD PUNE
24	SHINGATE PRATIKSHA SUNIL	OM V SAB IT SOLUTIONS, PUNE
25	GHORPADE NIKITA CHANDRAKANT	OM V SAB IT SOLUTIONS, PUNE
26	SHINGATE SHRADDHA SANTOSH	OM V SAB IT SOLUTIONS, PUNE
27	CHAVAN ANKITA SANJAY	OM V SAB IT SOLUTIONS, PUNE
28	GAVADE PRAVIN PRAKASH	OM V SAB IT SOLUTIONS, PUNE
29	SUTAR PRATIKSHA BALWANT	OM V SAB IT SOLUTIONS, PUNE
30	VANJOLE SAMIKSHA SUNIL	OM V SAB IT SOLUTIONS, PUNE
31	JADHAV HARSHAL PRADEEP	OM V SAB IT SOLUTIONS, PUNE
32	DESAI AKASH PRAMOD	MYTHOS TECHNOLOGY PUNE
33	KHARAT AKASH AJIT	MYTHOS TECHNOLOGY PUNE

34	PATEL SAISTA ALLAUDDIN	MYTHOS TECHNOLOGY PUNE
35	KANASE SALONI JITENDRA	MYTHOS TECHNOLOGY PUNE
36	NALAWADE SUPRIYA ASHOK	MYTHOS TECHNOLOGY PUNE
37	GUJAR NAMRATA DATTATRAY	MAESTERO INTELLECT PVT LTD PUNE
38	MANE HARSHADA HANMANT	MAESTERO INTELLECT PVT LTD PUNE
39	LAVANGHARE SHIVANI RAJENDRA	3 STAR IT SOLUTION SATARA
40	KAMBLE NIKITA SURESH	3 STAR IT SOLUTION SATARA
41	KIRVE RAVINA DIPAK	IN SOURCE TECHNOLOGY, PUNE
42	MANDHARE KIRTI BHARAT	IN SOURCE TECHNOLOGY, PUNE
43	METKARI PRIYANKA TATOBA	SOURCE CODE TECHNOLOGIES PVT LTD PUNE
44	LAKADE SUNITA BALU	SOURCE CODE TECHNOLOGIES PVT LTD PUNE
45	DUGANI SNEHA BASAPPA	CUMMINS INDIA PVT LTD PHALTAN
46	DESHMUKH ANUSHKA	MAESTERO INTELLECT PVT LTD PUNE
47	PAWAR SAYALI SOMNATH	ATUL SOFTWARE, PUNE
48	KSHIRSAGAR HARSHADA PRAMOD	IN SOURCE TECHNOLOGY, PUNE
49	KUMBHAR SHUBHAM MUKUND	INFODEAL TECHNOLOGIES PUNE
50	PAWAR VIRAJ VIKAS	UNIQUE SOFTWARE, KARAD

Sr No	Name of the Candidate (SY-I 2018-19)	Name of the Company
1	SHIVANI LAVANGHARE	3STAR IT SOLUTIONS, SATARA
2	PRATIKSHA SHIRKE	3STAR IT SOLUTIONS, SATARA
3	SAPNA MANE	3STAR IT SOLUTIONS, SATARA
4	POOJA PAWAR	3STAR IT SOLUTIONS, SATARA
5	MANISHA MADRE	3STAR IT SOLUTIONS, SATARA
6	MAYURI PHADTARE	3STAR IT SOLUTIONS, SATARA
7	PRIYANKA METKARI	3STAR IT SOLUTIONS, SATARA
8	ANIKET PAWAR	SPECTRUM SOFTWARE SATARA
9	HARSHAL JADHAV	SPECTRUM SOFTWARE SATARA
10	ARCHANA PAWAR	SPECTRUM SOFTWARE SATARA
11	SAMIKSHA VANJOLE	SPECTRUM SOFTWARE SATARA
12	NAMRATA GUJAR	SPECTRUM SOFTWARE SATARA
13	SAISTA PATEL	SPECTRUM SOFTWARE SATARA
14	SUPRIYA NALAWADE	SPECTRUM SOFTWARE SATARA
15	NIKITA GHORPADE	SPECTRUM SOFTWARE SATARA
16	ARATI DHABUGADE	SPECTRUM SOFTWARE SATARA
17	SHRADDHA SHINGATE	SPECTRUM SOFTWARE SATARA
18	PRATIKSHA SHINGATE	SPECTRUM SOFTWARE SATARA
18	NIKITA KADAM	SPECTRUM SOFTWARE SATARA
20	TEJASWINI GAIKWAD	SPECTRUM SOFTWARE SATARA
21	SONALI MALUSARE	SPECTRUM SOFTWARE SATARA
22	PRATIKSHA NIKAM	SPECTRUM SOFTWARE SATARA
23	KIRTI MANDHARE	SPECTRUM SOFTWARE SATARA
24	PRATIKSHA INGAWALE	SPECTRUM SOFTWARE SATARA
25	PRATIKSHA SUTAR	SPECTRUM SOFTWARE SATARA
26	ANKITA CHAVAN	SPECTRUM SOFTWARE SATARA
27	KARISHMA PATIL	SPECTRUM SOFTWARE SATARA
28	HARSHADA MANE	SPECTRUM SOFTWARE SATARA
29	SWATI JAGTAP	SPECTRUM SOFTWARE SATARA

30	SHRUTI BHOSALE	SPECTRUM SOFTWARE SATARA
31	HARSHADA KSHIRSAGAR	USAS SOLUTION, SATARA
32	BHAVANA KADAM	USAS SOLUTION, SATARA
33	PAYAL PARDESHI	USAS SOLUTION, SATARA
34	CHITRANJALI KALANGE	USAS SOLUTION, SATARA
35	SHIVANI YADAV	USAS SOLUTION, SATARA
36	RUTUJA DHANWADE	USAS SOLUTION, SATARA
37	SNEHA DUGANI	USAS SOLUTION, SATARA
38	SAKSHI CHAVAN	USAS SOLUTION, SATARA
39	POOJA BANSODE	USAS SOLUTION, SATARA
40	AISHWARYA KOTHAWALE	USAS SOLUTION, SATARA
41	VIDYA PARIHAR	USAS SOLUTION, SATARA
42	SAYALI PAWAR	USAS SOLUTION, SATARA
43	RUTUJA SHINDE	USAS SOLUTION, SATARA
44	SHIVANI DALAVI	COMPUTER WORLD, KOLHAPUR

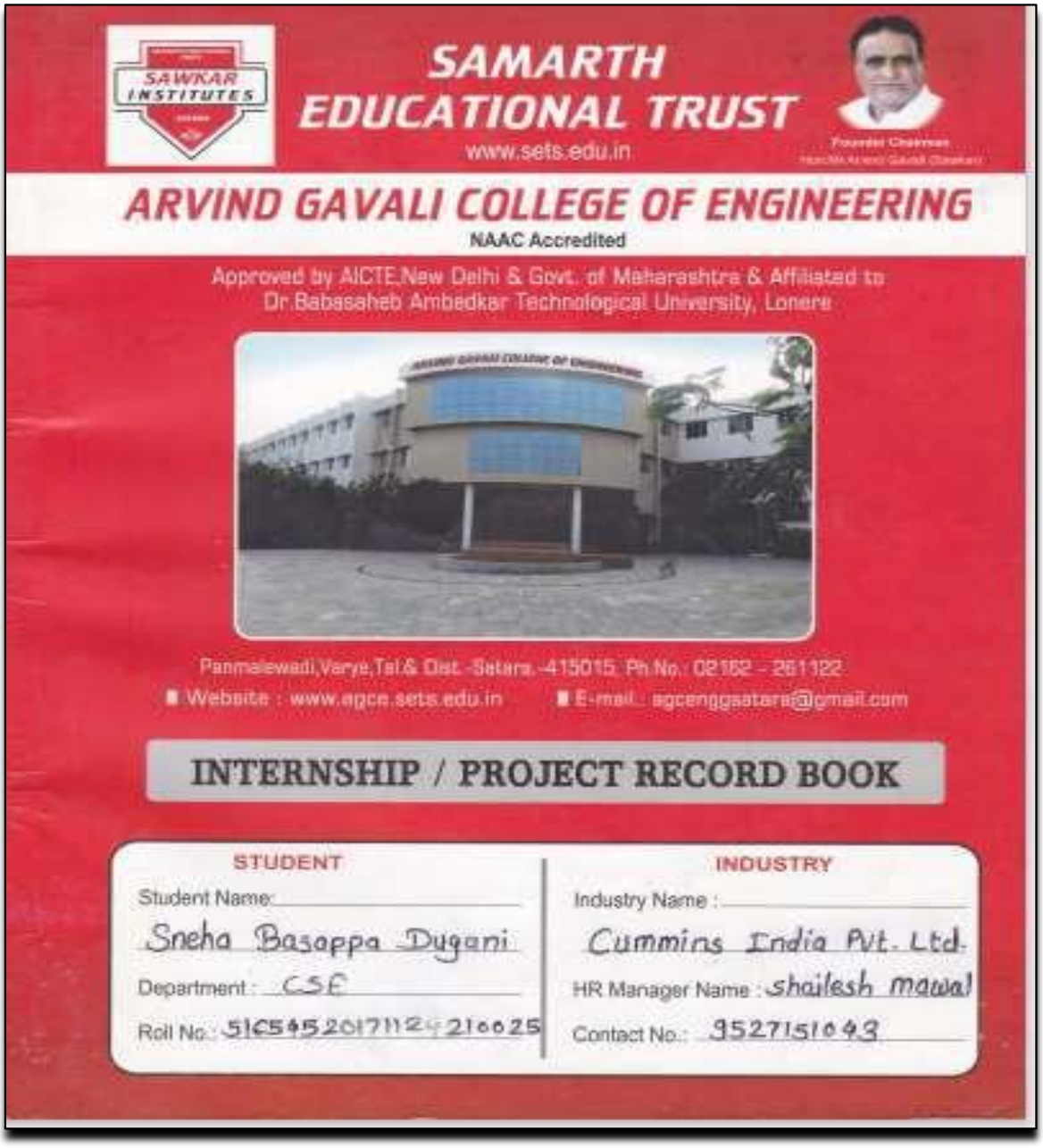
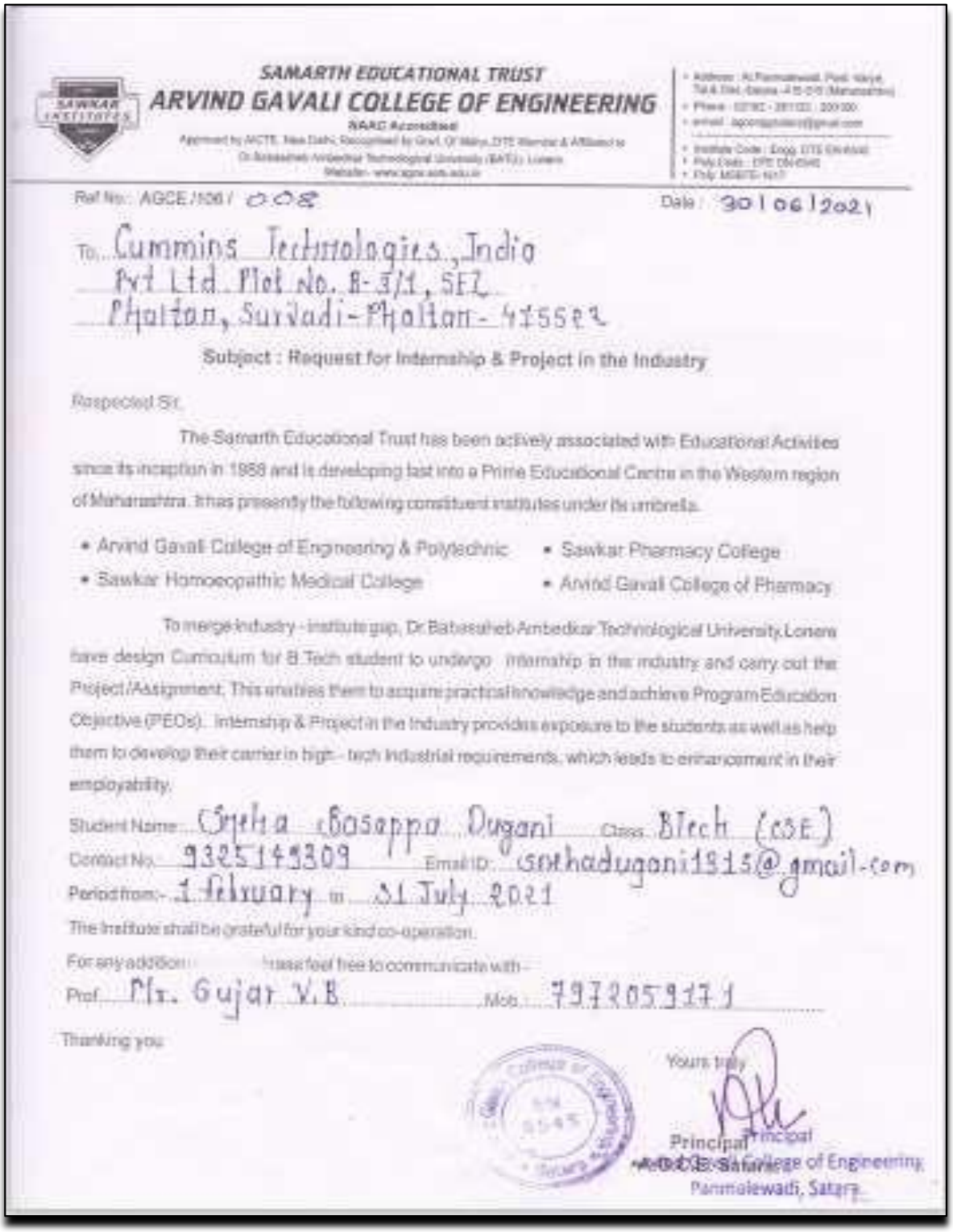


Figure B.2.2.5a Industrial/Internship/Summer Training Record Book



SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING

NAAC Accredited

Ref No.: AGCE/106/ 008 Date: 30/06/2021

To, Cummins Technologies, India
Pvt Ltd. Plot No. B-3/1, SEZ
Phaltan, Survadi-Phaltan-415522

Subject : Request for Internship & Project in the Industry

Respected Sir,

The Samarth Educational Trust has been actively associated with Educational Activities since its inception in 1988 and is developing fast into a Prime Educational Centre in the Western region of Maharashtra. It has presently the following constituent institutes under its umbrella.

- Arvind Gavali College of Engineering & Polytechnic
- Sawkar Pharmacy College
- Sawkar Homoeopathic Medical College
- Arvind Gavali College of Pharmacy

To merge industry - institute gap, Dr. Babasaheb Ambedkar Technological University, Lonere have design Curriculum for B.Tech student to undergo internship in the industry and carry out the Project/Assignment. This enables them to acquire practical knowledge and achieve Program Education Objective (PEOs). Internship & Project in the Industry provides exposure to the students as well as help them to develop their carrier in high - tech industrial requirements, which leads to enhancement in their employability.

Student Name: Sneha Basappa Dugani Class: BTech (CSE)

Contact No.: 9325149309 Email ID: snehadugani1315@gmail.com

Period from:- 1 February to 31 July 2021

The Institute shall be grateful for your kind co-operation.

For any addition please feel free to communicate with -

Prof. Mr. Gujar V.B. Mob.: 7972059171

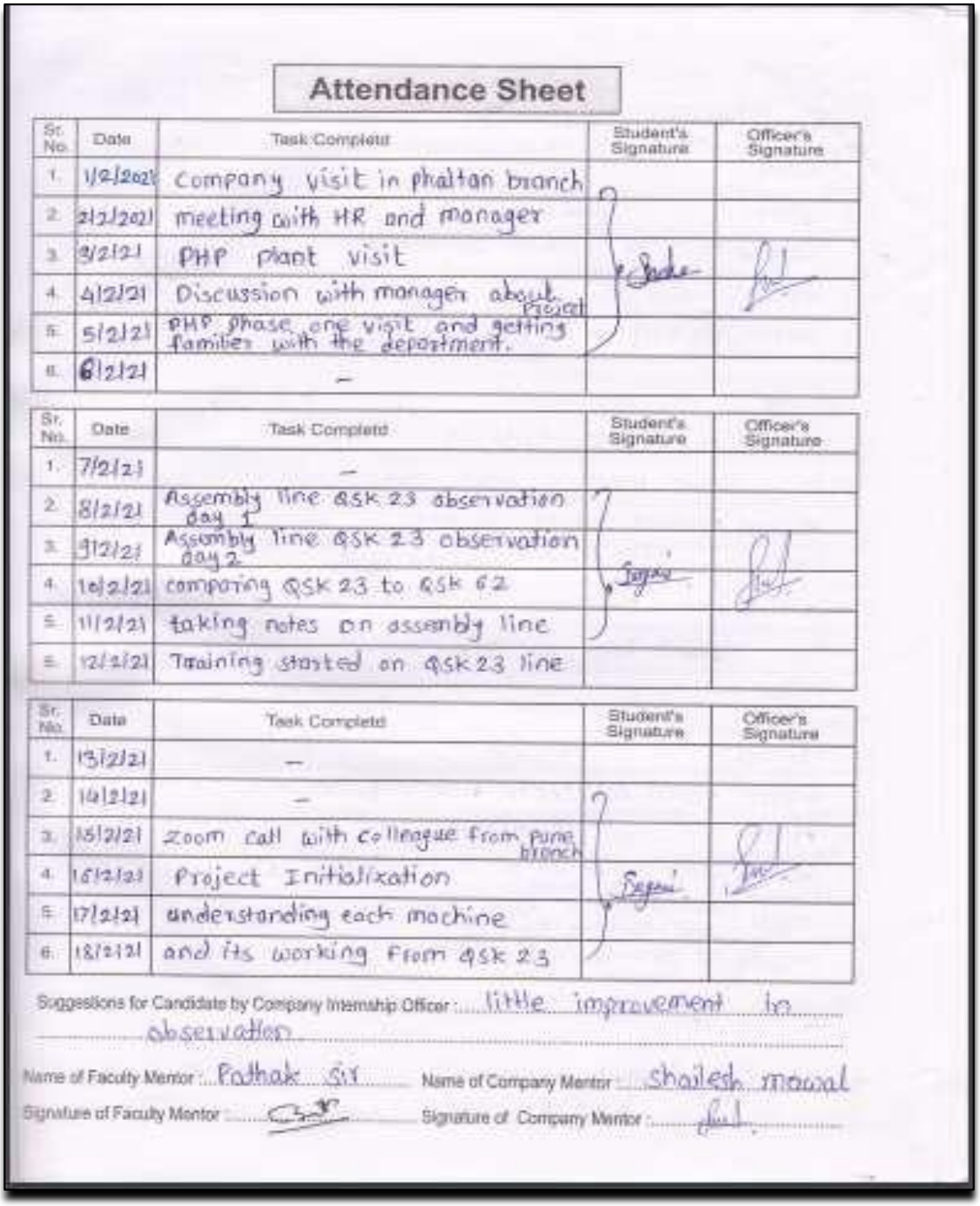
Thanking you

Yours truly

Principal
A.G.C.E. Satara

Principal
Arvind Gavali College of Engineering
Panmalewadi, Satara

Figure B.2.2.5b Recommendation letter for industrial/summer training



Attendance Sheet

Sr. No.	Date	Task Completd	Student's Signature	Officer's Signature
1.	1/2/2021	Company visit in phaltan branch		
2.	2/2/2021	meeting with HR and manager		
3.	3/2/21	PHP plant visit		
4.	4/2/21	Discussion with manager about Project		
5.	5/2/21	PHP phase one visit and getting familier with the depostment.		
6.	6/2/21	–		

Sr. No.	Date	Task Completd	Student's Signature	Officer's Signature
1.	7/2/21	–		
2.	8/2/21	Assembly line QSK 23 observation day 1		
3.	9/2/21	Assembly line QSK 23 observation day 2		
4.	10/2/21	comparing QSK 23 to QSK 62		
5.	11/2/21	taking notes on assembly line		
6.	12/2/21	Training started on QSK 23 line		

Sr. No.	Date	Task Completd	Student's Signature	Officer's Signature
1.	13/2/21	–		
2.	14/2/21	–		
3.	15/2/21	Zoom call with collegue from pune branch		
4.	16/2/21	Project Initialization		
5.	17/2/21	understanding each machine		
6.	18/2/21	and its working From QSK 23		

Suggestions for Candidate by Company Internship Officer : little improvement in observation

Name of Faculty Mentor : Pathak Sir Name of Company Mentor : shailesh mawal

Signature of Faculty Mentor : Signature of Company Mentor :

Figure B.2.2.5 c Industrial/Internship/Summer training Attendance Sheet

Post Training Assessment:

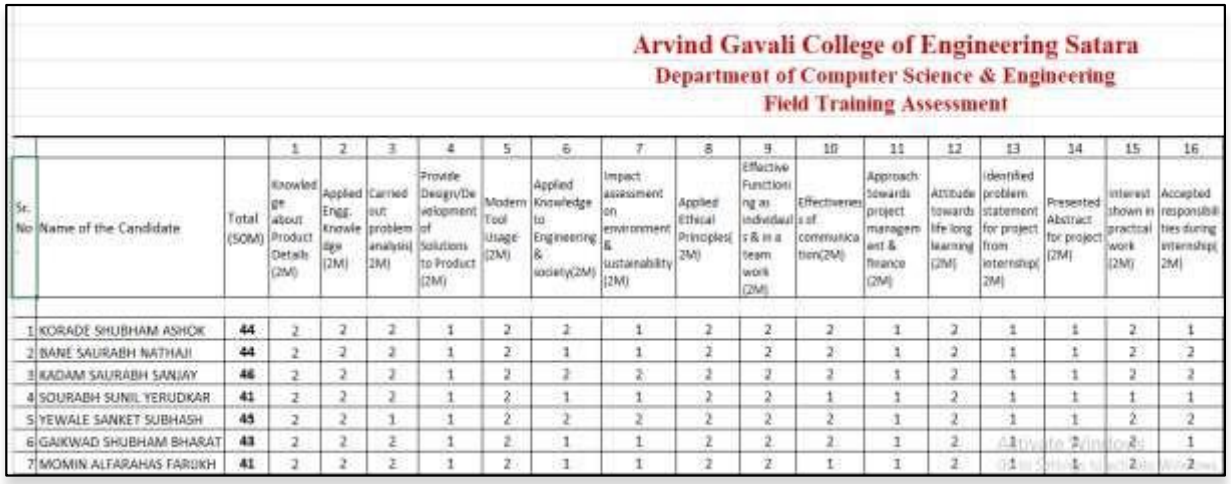
Internal Assessment:

Arvind Gavali College of Engineering Satara
Department of Computer Science & Engineering
Field Training Assessment

Sr. No.	Name of the Candidate	Total (50M)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
			Knowledge about Product Details (2M)	Applied Engg. Knowledge (2M)	Carried out problem analysis(2M)	Provide Design/Development of Solutions to Product (2M)	Modern Tool Usage (2M)	Applied Knowledge to Engineering & society(2M)	Impact assessment on environment & sustainability(2M)	Applied Ethical Principles(2M)	Effective Functioning as individuals & in a team work (2M)	Effectiveness of communication(2M)	Approach towards project management & finance (2M)	Attitude towards life long learning (2M)	Identified problem statement for project from internship(2M)	Presented Abstract for project (2M)	Interest shown in practical work (2M)	Accepted responsibilities during internship (2M)	Initiative taken at the time of internship (2M)	Demonstrated organizational skills(2M)	Effective time utilization(2M)	Quality Content Presentation(2M)	Shows a professional Appearance(2M)	Effectiveness of presentation(2M)	Attendance Record (2M)	Daily Diary (2M)	Department Report(2M)

Figure B.2.2.5 d Sample Internship post-training assessment performance indicator

The following image shows the internship post-training assessment record as per the rubrics mentioned above

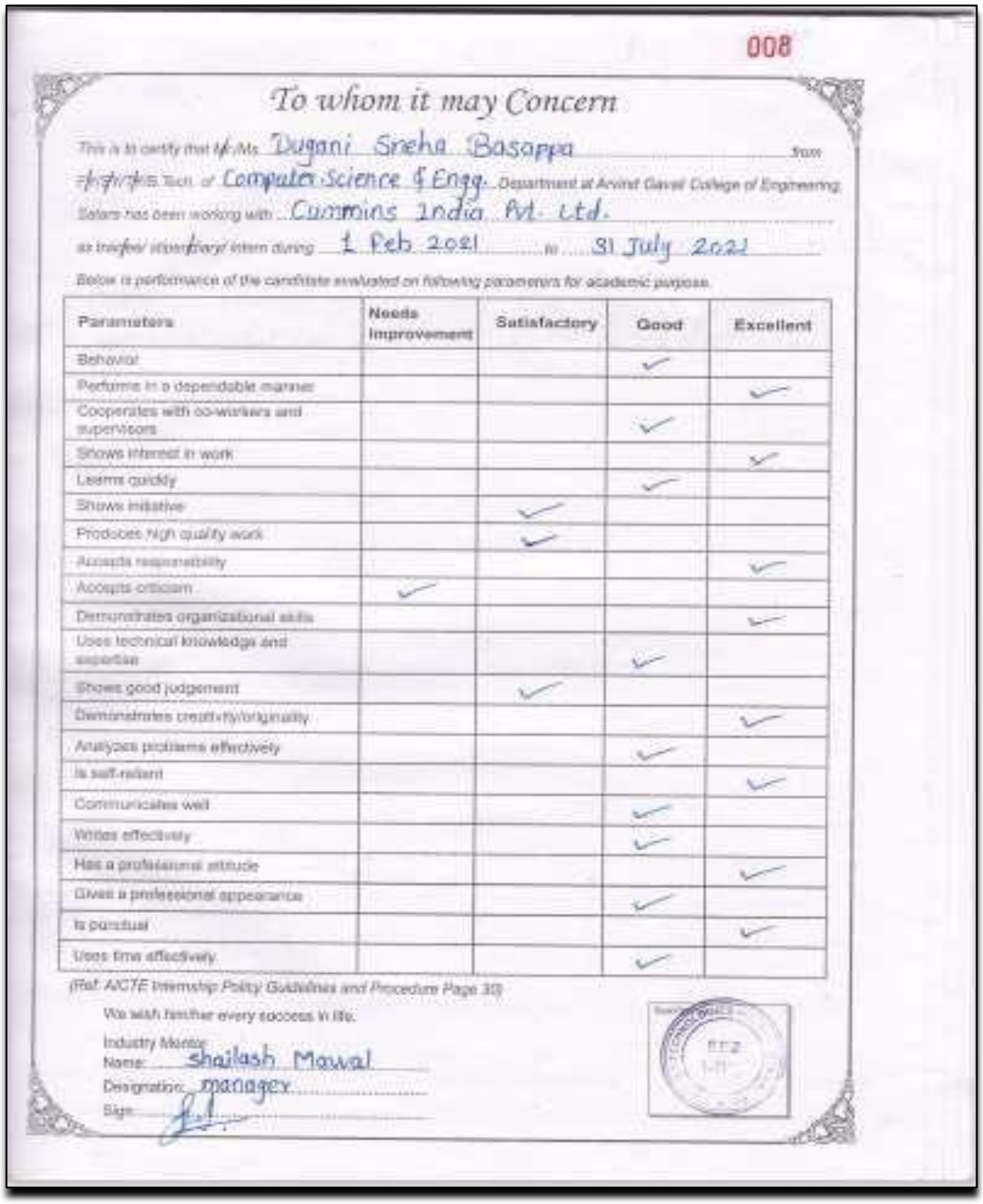


Arvind Gavali College of Engineering Satara
Department of Computer Science & Engineering
Field Training Assessment

Sr. No	Name of the Candidate	Total (50M)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			Knowledge about Product Details (2M)	Applied Engg. Knowledge (2M)	Carried out problem analysis(2M)	Provide Design/Development of Solutions to Product (2M)	Modern Tool Usage (2M)	Applied Knowledge to Engineering & society(2M)	Impact assessment on environment & sustainability (2M)	Applied Ethical Principles(2M)	Effective Functioning as individuals & in a team work (2M)	Effectiveness of communication(2M)	Approach towards project management & finance (2M)	Attitude towards life long learning (2M)	Identified problem statement for project from internship(2M)	Presented Abstract for project (2M)	Interest shown in practical work (2M)	Accepted responsibilities during internship(2M)
1	KORADE SHUBHAM ASHOK	44	2	2	2	1	2	2	1	2	2	2	1	2	1	1	2	1
2	BANE SAURABH NATHAJI	44	2	2	2	1	2	1	1	2	2	2	1	2	1	1	2	2
3	KADAM SAURABH SANJAY	46	2	2	2	1	2	2	2	2	2	2	1	2	1	1	2	2
4	SOURABH SUNIL YERUDKAR	41	2	2	2	1	2	1	1	2	2	1	1	2	1	1	1	1
5	YEWALE SANKET SUBHASH	45	2	2	1	1	2	2	2	2	2	2	1	2	1	1	2	2
6	GAIKWAD SHUBHAM BHARAT	43	2	2	2	1	2	1	1	2	2	2	1	2	1	1	2	1
7	MOMIN ALFARAHAS FARUKH	41	2	2	2	1	2	1	1	2	2	1	1	2	1	1	2	2

Figure B.2.2.5 e Sample Internship post-training assessment record

Industry Assessment:



008

To whom it may Concern

This is to certify that Mr./Ms. Dugani Sneha Basappa from [illegible] Tech. of Computer Science & Engg. Department at Arvind Gavali College of Engineering, Satara has been working with Cummins India Pvt. Ltd. as trainee/ stipendiary/ intern during 1 Feb 2021 to 31 July 2021

Below is performance of the candidate evaluated on following parameters for academic purpose.

Parameters	Needs Improvement	Satisfactory	Good	Excellent
Behavior			✓	
Performs in a dependable manner				✓
Cooperates with co-workers and supervisors			✓	
Shows interest in work				✓
Learns quickly			✓	
Shows initiative		✓		
Produces high quality work		✓		
Accepts responsibility				✓
Accepts criticism	✓			
Demonstrates organizational skills				✓
Uses technical knowledge and expertise			✓	
Shows good judgement		✓		
Demonstrates creativity/originality				✓
Analyzes problems effectively			✓	
Is self-reliant				✓
Communicates well			✓	
Writes effectively			✓	
Has a professional attitude				✓
Gives a professional appearance			✓	
Is punctual				✓
Uses time effectively			✓	

(Ref: AICTE Internship Policy Guidelines and Procedure Page 30)

We wish him/her every success in life.

Industry Mentor:
Name: Shailash Mawal
Designation: manager
Sign:

Figure B.2.2.5 f Sample Industrial/Internship/summer training Assessment Sheet

Date: 27th July 2021

CERTIFICATE

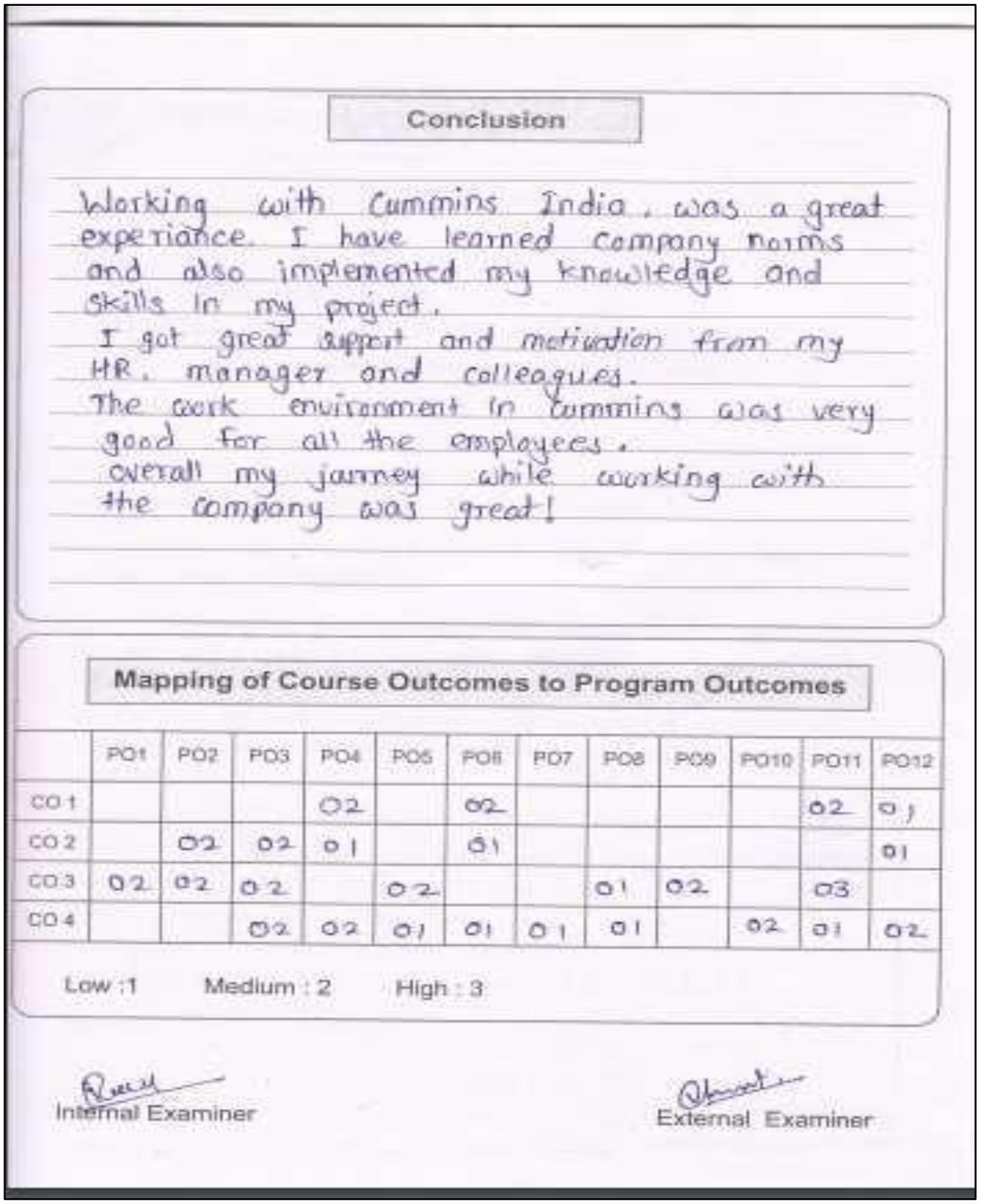
This is to certify that **Sneha Dugani** has successfully completed her Project in Cummins Technologies India Limited-Power Systems Business Unit from **01st February 2021 to 25th July 2021**

The topic of her project was, Data Analysis of QSK23 assembly for PHP Plant.

We wish her all the best for all her future endeavors.

For **Cummins Technologies India Pvt. Ltd.**

Mrudula Sahasrabudhe
Senior HR- Lead
Power Systems Business Unit



Conclusion

Working with Cummins India, was a great experiance. I have learned company norms and also implemented my knowledge and skills in my project.
I got great support and motivation from my HR, manager and colleagues.
The work environment in Cummins was very good for all the employees.
overall my jarney while working with the company was great!

Mapping of Course Outcomes to Program Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1				02		02					02	01
CO2		02	02	01		01						01
CO3	02	02	02		02			01	02		03	
CO4			02	02	01	01	01	01		02	01	02

Low :1 Medium : 2 High : 3

Internal Examiner

External Examiner

Figure B.2.2.5 h Sample Industrial/Internship/Summer training outcome mapping to program outcome.

Figure B.2.2.5 I Training & Placement Officer Visit to Internship Company

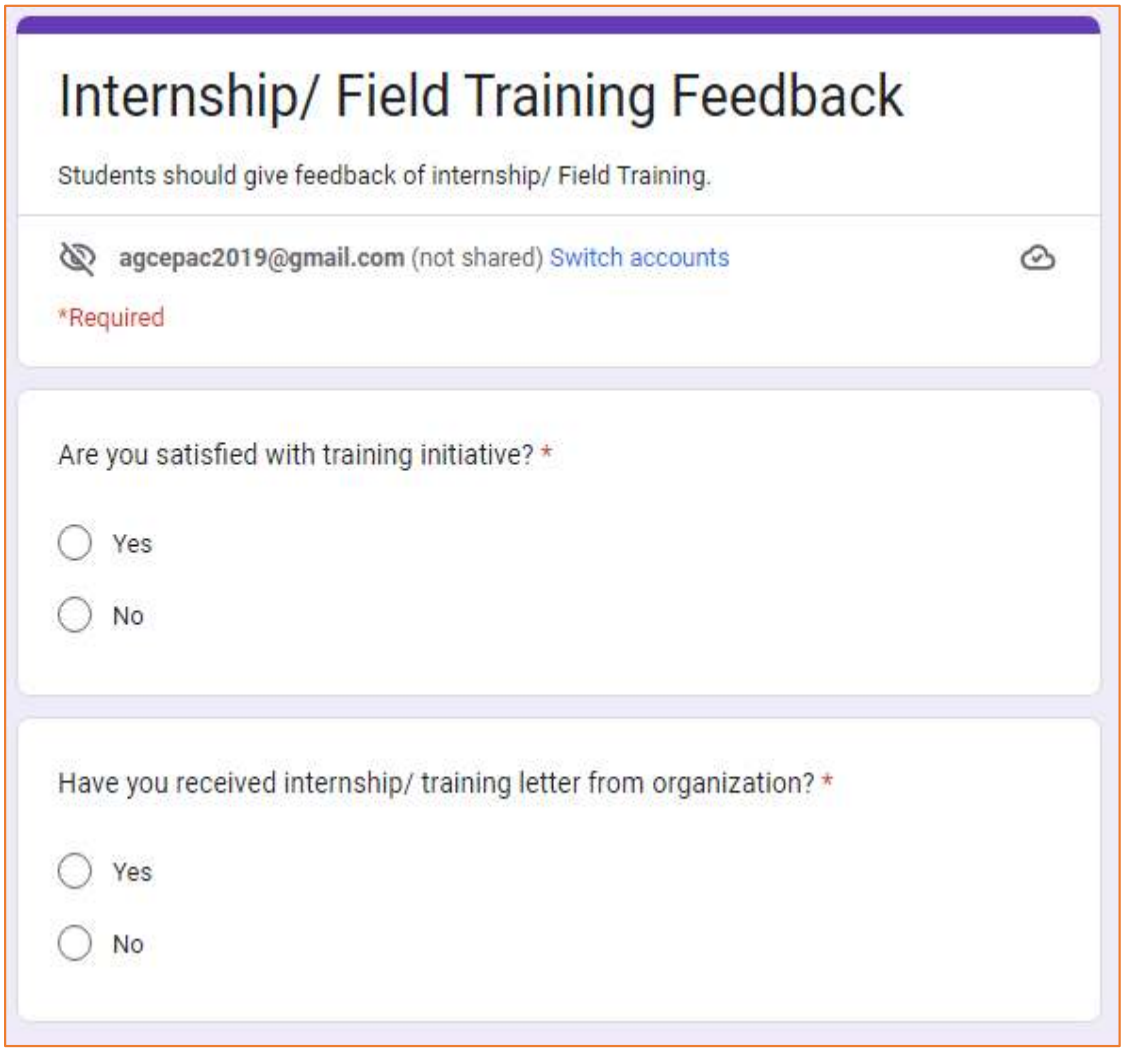
C. Impact Analysis:

- These training programs have helped students in the development of good projects in their final year.
- Students learn the industry standards and workplace culture.
- Students gain the basic needed skills for the development of real-world projects.
- Gain valuable work experience.
- Students gain confidence.
- The communication skills of the students improved.
- To expand teamwork and leadership skills**.**
- Internship program helps students get placed in same domain or same company that of internship.

Domain	Total Student	Students Placed in Same Domain as of internship / training	Students placed in Same Company where they carried out internship.
Web/Application Development	57	54	2
Software Testing	01	1	0
Artificial Intelligence	12	10	0

D. Student Feedback on Initiative

- The feedback on the initiative taken by the program is collected from the students when he joins back the institute after the completion of the internship in the industry.
- The feedback is conducted to understand the satisfaction of the students with the initiative and the scope for improvement in the initiative for future students.
- It is observed that the initiative is helpful for the students from the perspective of career advancement and life-long learning.
- The feedback of the students is also taken while submitting of the report. The sample feedback form is as below.



Internship/ Field Training Feedback

Students should give feedback of internship/ Field Training.

agcepac2019@gmail.com (not shared) Switch accounts

*Required

Are you satisfied with training initiative? *

- Yes
- No

Have you received internship/ training letter from organization? *

- Yes
- No

Have you got guidance from supervisor/ senier members? *

- ◯ Yes
- ◯ No

Have you observed safety measures/precautions taken while working? *

- ◯ Yes
- ◯ No

Have you applied engineering knowledge during training? *

- ◯ Yes
- ◯ No

Have you identified latest tools and technologies? *

- ◯ Yes
- ◯ No

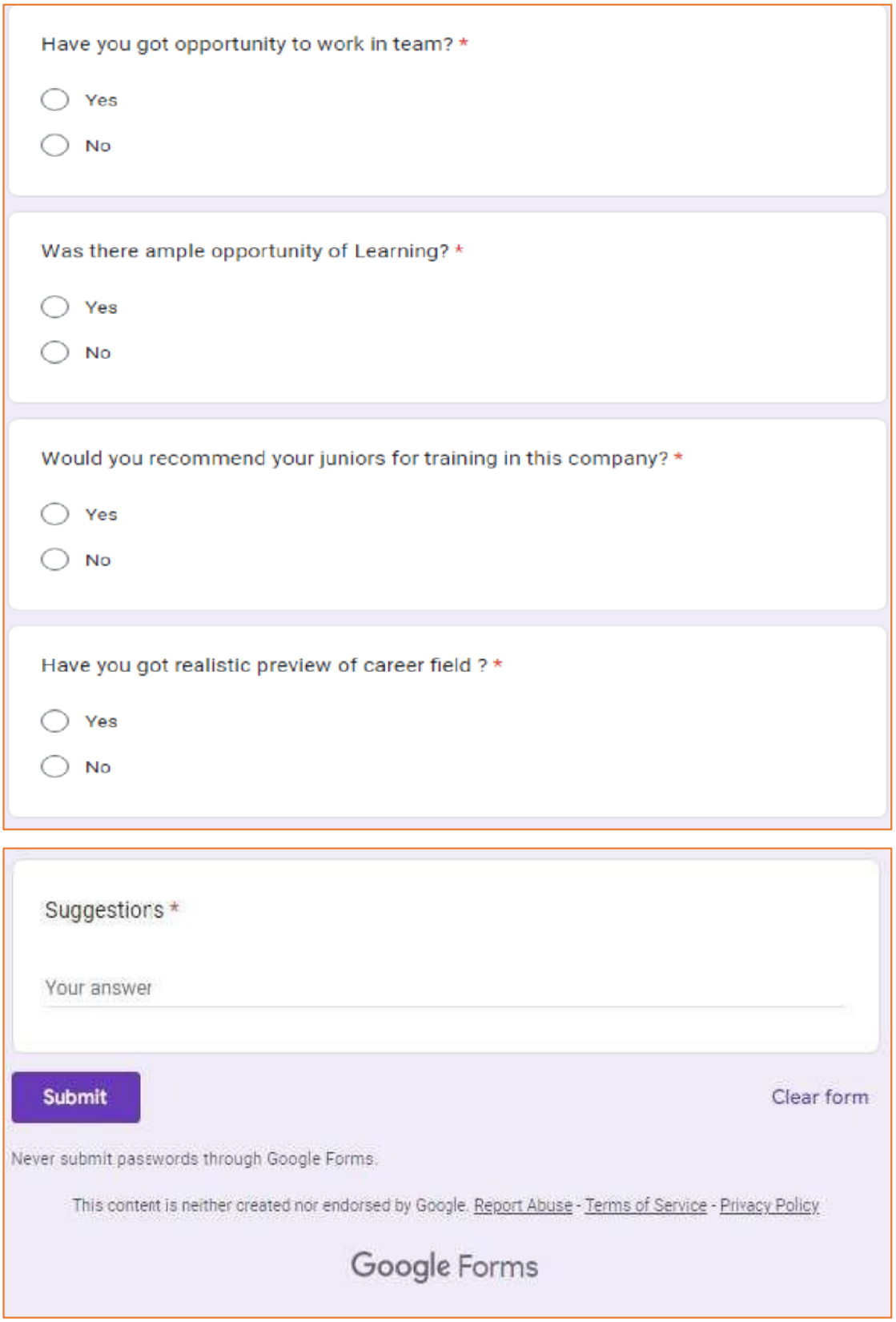


Figure B.2.2.5 j Feedback Form of Industrial Training/Internship

CRITERION 03	COURSE OUTCOMES AND PROGRAM OUTCOMES	120

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

Program Outcomes as mentioned in Annexure-I and Program Specific Outcomes as defined by the Program.

A. PROGRAM OUTCOMES (POs)

The students of Computer Science and Engineering will be able to:	
PO1	**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	**Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	**Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	**Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11	**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	**Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

B. PROGRAM SPECIFIC OUTCOMES (PSO)

Computer Science and Engineering graduates will be able to	
PSO1	Ability to learn latest software technology in the area of computer science & engineering
PSO2	Ability to develop software solution for catering to the environmental and societal needs.

3.1.1. Course Outcomes (COs) (05)

SEM-III	**Discrete Mathematics BTCOC302**	C302.1	To understand propositional logic and perform operations on set, functions, relation.
		C302.2	To solve problems using counting techniques, permutation, combination, recursion and generating function
		C302.3	Apply algorithms and use of graphs, trees as tools to visualize and simplify problems.
		C302.4	Summarize various properties of algebraic systems.
SEM-IV	**Design & Analysis of Algorithms BTCOC401**	C401.1	Recall algorithm, flowchart, list different algorithm design techniques
		C401.2	Illustrate various computational models.
		C401.3	Demonstrate various algorithms like sorting, searching and solve problems using optimization theory.
		C401.4	Analyze the performance of algorithm.
SEM-V	**Database Systems BTCOC501**	C501.1	Define data abstraction, data independence, tuple, relational algebra, indexing, hashing, normal forms.
		C501.2	Explain integrity constraints and demonstrate relational algebra expressions with various examples.
		C501.3	Analyze relational algebra expressions and test database recovery strategies
		C501.4	Write programs and applications on relational algebra expressions and test database recovery strategies.
SEM-VI	**Artificial Intelligence BTCOE603**	C603.1	Demonstrate fundamental understanding of the history of artificial intelligence and compare AI with human intelligence.
		C603.2	Identify the type of search strategy (blind/heuristic/adversarial) that is more appropriate to address a particular problem
		C603.3	Discuss algorithms of informed search, constraint satisfaction problem, logic, uncertain knowledge and reasoning.
		C603.4	To formalize knowledge using the framework of prepositional and first order logic, automatic reasoning in predicate logic using inference rules.

SEM-VII	**Software Engineering BTCOC701**	C701.1	To understand basic software engineering methods and practices, and their appropriate application.
		C701.2	To decompose the given project in various phases of a lifecycle.
		C701.3	To understand various processes used in all the phases of the product.
		C701.4	Apply the knowledge, techniques, and skills in the development of a software product
SEM-VIII	**Elective XI Social Networks BTCOE801B**	E801B.1	Illustrate Datasets, Granovetter's Strength of Week Ties, homophily, Power Laws, Small world phenomenon
		E801B.2	Analyze Datasets, Strength of weak ties, Strong/ Weak Relationships, Homophily, Cascading behavior in network
		E801B.3	Summarize Embededness, Structural holes, Social Capital, Google Page ranking using Web Graph, Knowledge, Thresholds and collective action
		E801B.4	Conclude Small World Phenomenon, Power Laws, Epidemics, Rich get richer phenomenon.

3.1.2. CO-PO matrices of courses selected in 3.1.1 (05)

All the courses in curriculum are studied in detail and correlation with POs and PSOs are declared. Six matrices are mentioned here from the 3rd to the 8th semester. Record for all courses is available with the program.

CO-PO matrices

Course Name: Discrete Mathematics (BTCOC302)												
Course Outcome	**Programme Outcome (PO)**											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1		3										1
C302.2	3										1	
C302.3				3								
C302.4	3	3		2						1	1	1
Average	**3.00**	**3.00**		**2.50**						**1.00**	**1.00**	**1.00**

Course Outcome	**Course Name: Design & Analysis of Algorithms (BTCOC401)**											
	Programme Outcome (PO)											
C501.1	2	3	2		2					1		1
C501.2	3	2	2							1		
C501.3	2	1	1	2						2		1
C501.4	2	2	2	1						2		1
Average	**2.25**	**2.00**	**1.75**	**1.50**	**2.00**					**1.50**		**1.00**

Course Outcome	**Course Name: Database Systems (BTCOC501)**											
	Programme Outcome (PO)											
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C501.1	2	2	3	1	2							
C501.2		2	3	1	2					2	1	2
C501.3	3						1					
C501.4		2		2	3							2
Average	**2.00**	**2.00**	**3.00**	**2**	**2.33**		**1.00**			**2.00**	**1.00**	**2.00**

Course Outcome	Course Name: Artificial Intelligence (BTCOE603)											
	Programme Outcome (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C603.1	2	2	3		2		2					
C603.2	3	2	2				2		2	2		3
C603.3	2	2	3		3					3		2
C603.4	2	3	2		2					2		
Average	**2.25**	**2.25**	**2.50**		**2.33**		**2.00**		**2.00**	**2.33**		**2.50**

Course Outcome	Course Name: Software Engineering (BTCOC701)											
	Program Outcome (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C701.1	3	2	2		3							2
C701.2	3	2	3		3							1
C701.3	3	3	2		3							1
C701.4	3	2			3				2			2
Average	**3.00**	**2.25**	**2.50**		**3.00**				**2.00**			**1.50**

Course Outcome	Course Name: Elective XI Social Networks (BTCOE801B)											
	Program Outcome (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C801A.1	3	2	2		2							
C801A.2	3	3		2								
C801A.3	3	2		2		2						
C801A.4	2		3	2		2						3
Average	**2.75**	**2.33**	**2.50**	**2.00**	**2.00**	**2.00**						**3.00**

CO-PSO matrices

Course Code: BTCOC302		
Course	**PSO1**	**PSO2**
C302.1	2	1
C302.2	1	1
C302.3	2	2
C302.4	1	
Average	**1.50**	**1.33**

Course Code: BTCOC401		
Course	**PSO1**	**PSO2**
C401.1	1	
C401.2	1	1
C401.3	2	1
C401.4	2	1
Average	**1.50**	**1.00**

Course Code: BTCOC501		
Course	**PSO1**	**PSO2**
C501.1	1	
C501.2	2	
C501.3		1
C501.4	1	1
Average	**1.33**	**1.00**

Course Code: BTCOE603		
Course	**PSO1**	**PSO2**
C603.1	1	
C603.2	2	2
C603.3	3	2
C603.4	2	
Average	**2.00**	**2.00**

Course Code: BTCOC701		
Course	**PSO1**	**PSO2**
C701.1	2	
C701.2	2	
C701.3		2
C701.4	1	1
Average	**1.67**	**1.50**

Course Code: BTCOE801B		
Course	**PSO1**	**PSO2**
C801A.1	1	
C801A.2		1
C801A.3	1	
C801A.4	2	1
Average	**1.33**	**1.00**

3.1.3 Program level Course-PO matrix of all courses INCLUDING first year courses(10)

CO-PO correlation matrix for all courses in the program is given below. Course code is mentioned in the first column and correlation with POs is indicated as 1) slight, 2) moderate and 3) High. Courses not having any correlation is indicated by '-'. This correlation is derived from CO-PO mapping of the individual course. Average of all COs is taken and mapped at level 1, 2 and 3.

Class	Course	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
SEM-I	BTBS101	Engineering Mathematics-I	1.50	2.25	2.00	2.00		1.00					2.00	1.50
	BTBS102	Engineering Physics	2.00	2.00	2.00	3.00		3.00	3.00					2.00
	BTES103	Engineering Graphics	1.67	3.00	2.50	3.00	1.67				2.50	2.50		2.50
	BTHM104	Communication Skills					1.00			1.50	2.50	2.75		
	BTES105	Energy and Environment Engineering	3.00					1.50	2.00					
	BTES106	Basic Civil and Mechanical Engineering	2.25	3.00	2.00	2.00		2.00	2.00			1.67	3.00	
	BTBS107L	Engineering Physics Lab	2.00	2.00	2.00	3.00		3.00	3.00					2.00
	BTES108L	Engineering Graphics Lab	1.67	3.00	2.50	3.00	1.67			1.00	2.50	2.50		2.50
	BTHM109L	Communication Skills Lab.					1.00			1.50	2.50	2.75		
SEM-II	BTBS201	Engineering Mathematics- II	1.50	2.25	2.00	2.00		1.00					2.00	1.50
	BTBS202	Engineering Chemistry	2.00	2.00				1.00	2.00		2.00			
	BTES203	Engineering Mechanics	2.67	3.00	2.00			1.00			2.00			
	BTES204	Computer Programming in C	2.00	1.00	2.00						2.50	2.50		
	BTES205	Workshop Practices	3.00				2.33				2.00	1.00		
	BTES206	Basic Electrical and Electronics Engineering	3.00					1.50	2.00					
	BTES207L	Computer programming Lab	2.00	2.00	2.00		3.00	3.00	2.00		2.00	3.00		2.00

	BTBS208L	Engineering Chemistry Lab	2.00	2.00				1.00	2.00		2.00			
	BTES209L	Engineering Mechanics Lab	2.67	3.00	2.00			1.00			2.00			
	BTES210P	Mini Project	1.00	1.00			1.00	1.00	1.00	1.00	2.67	2.67		
SEM-III	BTBS301	Engineering Mathematics – III	2.75	1.67	1.00									1.00
	BTCOC302	Discrete Mathematics	3.00	3.00		2.50						1.00	1.00	1.00
	BTCOC303	Data Structures	2.50	2.00	2.25		2.00					2.25		1.75
	BTCOC304	Computer Architecture & Organization	2.74	2.67	2.13		1.67							2.01
	BTCOC305	Digital Electronics & Microprocessor	2.00	2.00	2.00		1.00	2.00	1.00					1.00
	BTHM3401	Basic Human Rights			3.00		2.00			1.00	2.00	2.00		
	BTCOL306	Python Programming	2.50	2.00	2.50		2.50			2.50		3.00		
	BTCOL307	HTML and JavaScript	2.41	2.22	2.41		3.00	2.00			2.00	2.50		1.51
	BTCOL308	Data Structures Lab	2.30	2.07	2.48		3.00	2.00				2.50		1.25
	BTCOL309	Digital Electronics & Microprocessor Lab	2.00	2.00	2.00		1.00			1.00		1.00		1.00
	BTES211P	Field Training/Internship/Industrial Training Evaluation	2.67	3.00	3.00	1.50	2.50	3.00	2.00	3.00	2.67	2.50	2.67	3.00
SEM-IV	BTCOC401	Design & Anal1sis of Algorithms	2.25	2.00	1.75	1.50	2.00					1.50		1.00
	BTCOC402	Probabilit1 & Statistics	2.25	2.25	2.50		2.33		2.00		2.00	2.33		2.50
	BTCOC403	Operating Systems	3.00	3.00		2.50						1.00	1.00	1.00
	BTCOE404B	Elective-I Object Oriented Programming in C++	2.67		2.00		3.00	2.50		2.50				2.00
	BTID405	Product Design Engineering	2.00	2.00	2.00	1.00		2.00			2.00	2.00		
	BTCOE406B	Numerical Methods	1.67	1.00	3.00		3.00				1.50		1.50	1.00
	BTCOL407	Design & Anal1sis of Algorithms Lab	3.00	1.00	2.00		3.00					2.00		1.00
	BTCOL408	Introduction to Data Science with R	2.33	2.00	2.33		3.00	3.00			2.00	2.50		3.00
	BTCOL409	Object Oriented Programming Lab	2.67	2.25	2.00		3.00	2.50	2.00				2.00	2.00

	BTCOL410	Operating S1stem Lab	2.25	2.00	2.50		3.00	3.00	2.00		2.00	2.50		3.00
SEM-V	BTCOC501	Database Systems	2.00	2.00	3.00	2.23	2.33		1.00			2.00	1.00	2.00
	BTCOC502	Theory of Computation	2.00	2.50	2.50	1.00	2.00		1.00					1.00
	BTCOC503	Machine Learning	2.25	2.50	2.50		2.33		1.33		1.00	2.33		2.00
	BTCOE504	Elective-III Introduction to Research	2.33	2.67	2.50		2.00	2.00		2.50		2.00		2.67
	BTCOC505	Elective-IV Business Communication		2.50			2.50	2.00	2.00	2.00	2.67	3.00	2.00	3.00
	BTCOC506	Competitive Programming –I	2.00	3.00	3.00		2.00			2.00		2.00		1.00
	BTCOL507	Database System Laboratory	2.00	2.00	1.67	2.00	1.67	1.67	2.00	1.50	2.00	1.75	1.67	1.67
	BTCOL508	Machine Learning Laboratory	2.00	2.00	2.25	1.00	2.25	2.00	1.00		2.50	2.33		2.25
	BTCOS509	Seminar			2.67		3.00			2.00	1.50	2.50		
	BTCOF411	Field Training/Internship/Industrial Training Evaluation	2.67	3.00	3.00	2.00	2.50	3.00	2.00	2.25	2.00	2.50	3.00	3.00
SEM-VI	BTCOC601	Compiler design	3.00	2.50	3.00	2.00	2.50		3.00					
	BTCOC602	Computer network	2.00	2.00	2.67	2.00	2.00						2.67	
	BTCOE603	Elective – V Artificial Intelligence	2.25	2.25	2.50		2.33		2.00		2.00	2.33		2.50
	BTCOE604	Elective VI Internet of things	1.75	2.00	3.00	1.50	1.50	1.00	2.00	1.50	2.00	1.67	1.50	2.75
	BTCOE605	Elective VII National social service	1.00	2.00	2.50		3.00	3.00	2.67		2.00	2.00		3.00
	BTCOC606	Competitive programming	2.00	1.00	2.00			2.00		2.00		1.00	3.00	
	BTCOL607	Internet of things laboratory	2.00	2.00	1.67	2.00	1.67	1.67	2.00	1.50	2.00	1.50	1.67	1.33
	BTCOL608	Computer Networking laboratory	3.00	2.00	2.00	2.00	2.50						2.00	
SEM-VII	BTCOC701	Software Engineering	3.00	2.25	2.50		3.00				2.00			1.50
	BTCOE702	Elective VIII Big data anal1sis	3.00	2.00	3.00		2.00	2.33	1.00					1.00
	BTCOE703	Elective IX Business Intelligence	2.00	2.67	2.00		2.50	2.00						2.00

	BTCOE704	Open Elective X Computer Graphics	2.25	2.00	2.50		3.00	3.00	2.00		2.00	2.50		3.00
	BTCOL705	Full Stack Development (LAMP/MEAN)	2.75	3.00	2.75	2.00	2.50	2.00	2.00		2.00			2.50
	BTCOL706	System Administration	2.25	2.00	2.50				2.50	2.00	2.00			3.00
	BTCOL707	Elective- VIII Lab	2.00	2.00	1.50		3.00	3.00			2.00	2.50		3.00
	BTCOL708	Elective-IX Lab	2.25	2.00	2.50		3.00	3.00			2.00	2.50		3.00
	BTCOL709	Project Phase I	2.00	2.75	1.67	1.50	1.67	1.67	2.00	1.00	1.00	1.00	1.75	2.75
	BTCOF609	Field Training/Internship/Industrial Training	2.33	2.50	3.00	1.00	2.50	3.00	2.00	2.50	2.67	2.50	2.50	2.33
SEM-VIII	BTCOE801	Elective –XI Deep learning/ Social Networks	2.75	2.33	2.50	2.00	2.00	2.00						3.00
	BTCOE802	Introduction to Industry 4.0 and Industrial Internet of Things	2.00	2.00	1.50	1.00	2.00	1.50	2.00	1.00	1.00	1.00	1.00	2.50
	BTCOE803	Project Phase II	2.00	2.00	1.67	2.00	1.67	1.67	2.00	1.50	3.00	2.00	2.00	2.00

Program level Course- PSO matrix:

CO-PSO correlation matrix for all courses in the program is given below. Course code is mentioned in the first column and correlation with PSOs is indicated as 1) slight, 2) moderate and 3) High. Courses not having any correlation are indicated by-. This correlation is derived from CO-PSO mapping of the individual course. Average of all Cos is taken and mapped at level 1, 2 and 3

Class	Course	Course Name	PSO1	PSO2
FY SEM I	BTBS101	Engineering Mathematics-I	2.00	1.00
	BTBS102	Engineering Physics	1.00	1.00
	BTES103	Engineering Graphics		
	BTHM104	Communication Skills	1.00	1.00
	BTES105	Energy and Environment Engineering		1.00
	BTES106	Basic Civil and Mechanical Engineering		
	BTBS107L	Engineering Physics Lab	1.00	1.00
	BTES108L	Engineering Graphics Lab		
	BTHM109L	Communication Skills Lab.		
FY SEM II	BTBS201	Engineering Mathematics- II	2.00	1.00
	BTBS202	Engineering Chemistry		
	BTES203	Engineering Mechanics		
	BTES204	Computer Programming in C	1.00	1.00
	BTES205	Workshop Practices		
	BTES206	Basic Electrical and Electronics Engineering		
	BTES207L	Computer Programming Lab	2.00	3.00
	BTBS208L	Engineering Chemistry Lab		
	BTES209L	Engineering Mechanics Lab		
	BTES210P	Mini Project	1.00	1.00
SY SEM III	BTBS301	Engineering Mathematics – III		
	BTCOC302	Discrete Mathematics	1.00	

	BTCOC303	Data Structures	1.50	1.33
	BTCOC304	Computer Architecture & Organization	2.75	2.50
	BTCOC305	Digital Electronics & Microprocessor	2.00	1.50
	BTHM3401	Basic Human Rights	2.00	2.00
	BTCOL306	Python Programming	3.00	2.00
	BTCOL307	HTML and JavaScript	3.00	2.00
	BTCOL308	Data Structures Lab	1.67	2.00
	BTCOL309	Digital Electronics & Microprocessor Lab	2.50	2.00
	BTES211P	Field Training/Internship/Industrial Training Evaluation	1.00	2.00
SY- SEM IV	BTCOC401	Design & Anal1sis of Algorithms	3.00	2.00
	BTCOC402	Probabilit1 & Statistics	1.50	1.00
	BTCOC403	Operating Systems	2.00	2.00
	BTCOE404B	Elective-I Object Oriented Programming in C++	3.00	2.00
	BTID405	Product Design Engineering	2.25	2.00
	BTCOE406B	Numerical Methods	3.00	2.00
	BTCOL407	Design & Anal1sis of Algorithms Lab	2.50	1.00
	BTCOL408	Introduction to Data Science with R	1.75	1.00
	BTCOL409	Object Oriented Programming Lab	1.50	2.00
	BTCOL410	Operating S1stem Lab	2.25	2.00
TY- SEM V	BTCOC501	Database Systems	1.50	2.00
	BTCOC502	Theory of Computation	1.33	1.00
	BTCOC503	Machine Learning	1.75	1.00
	BTCOE504	Elective-III Introduction to Research	2.25	2.00
	BTCOC505	Elective-IV Business Communication	1.33	1.50
	BTCOC506	Competitive Programming –I	2.00	1.67
	BTCOL507	Database System Laboratory	3.00	2.00
	BTCOL508	Machine Learning Laboratory	2.00	2.00
	BTCOS509	Seminar	2.00	1.00

	BTCOF411	Field Training/Internship/Industrial Training Evaluation	1.50	2.00
TY- SEM VI	BTCOC601	Compiler design	3.00	2.00
	BTCOC602	Computer network	2.00	1.50
	BTCOE603	Elective – V Artificial Intelligence	2.25	2.00
	BTCOE604	Elective VI Internet of things	2.00	2.00
	BTCOE605	Elective VII National social service	1.33	1.67
	BTCOC606	Competitive programming-II	1.50	2.00
	BTCOL607	Internet of things laboratory	2.00	1.33
	BTCOL608	Computer Networking laboratory	2.00	1.67
BTech- SEM VII	BTCOC701	Software Engineering	1.50	2.00
	BTCOE702	Elective VIII Big data anal1sis	1.67	1.50
	BTCOE703	Elective IX Business Intelligence	2.33	1.33
	BTCOE704	Open Elective X Computer Graphics	1.50	2.00
	BTCOL705	Full Stack Development (LAMP/MEAN)	1.50	2.00
	BTCOL706	System Administration	2.00	2.00
	BTCOL707	Elective- VIII Lab	1.50	2.00
	BTCOL708	Elective-IX Lab	1.50	2.00
	BTCOL709	Project Phase I	1.50	2.00
	BTCOF609	Field Training/Internship/Industrial Training	2.00	2.00
BTech- SEM VIII	BTCOE801	Elective –XI Deep learning/ Social Networks	2.67	3.00
	BTCOE802	Introduction to Industry 4.0 and Industrial Internet of Things	1.33	1.00
	BTCOE803	Project Phase II	2.00	1.50

3.2 Attainment of Course Outcomes (50)

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

The key aspects in Outcome Based Education (OBE) are the assessment of course outcomes. At the initial stage of OBE implementation, the Course Outcomes (COs) for each course are defined based on the Program Outcome (POs) and other requirements. At the end of each course, the COs needs to be assessed and evaluated, to check whether it has been attained or not. Assessment is one more process, carried out by the department, that identify, collect, and prepare data to evaluate the achievement of program educational objectives and program outcomes. Attainment is the action or fact of achieving a standard result towards accomplishment of desired goals. Primarily attainment is the standard of academic attainment as observed by test or examination result. Attainment of the COs can be measured by using direct and indirect tools. Direct attainment basically displays the student's knowledge and skills from their academic performance. It can be determined from the performance of the students in all the relevant assessment tools – like internal assessments, assignments, quiz and final university examination etc. These methods provide a sampling of what students know and /or actions they can perform, offering substantial.

This program consists of various types of courses for fulfillment of POs and PSOs. The process of data collection for attainment of COs is properly identified depending on the type of course. Major types of courses are

1. Practical/Oral/TW
2. Tutorial
3. Seminar
4. Project
5. Audit course

The Institution strives hard to ensure that the Learning across all the courses of the curriculum is Outcome oriented. There is continuous assessment of learning outcomes attainment and this procedure has been refined over a period of time.

The following are the two broadly classified tools used for assessment of Learning Outcome Attainment

• Direct Assessment Method:

Data collection mechanism includes direct assessment process which is

Theory

1. Continuous Assessment Test 1
2. Mid Semester Examination
3. Continuous Assessment Test 2
4. End Semester Examination

Laboratory

1. Continuous Assessment Test 1
2. Continuous Assessment Test 2
3. End Semester Examination

Data collection process for all above type of courses is clearly defined in table 3.2.1a given below.

Table 3.2.1a: Assessment Tools

Theory

Sr. No.	Assessment tools	Tool type	Time Span
1	Continuous Assessment Test1[CA1]	Direct Assessment	One test/semester
2	Mid Semester Examination [MSE]		One test/semester
3	Continuous Assessment Test 2 [CA2]		One/Semester
4	End Semester Examination [ESE]		One/Semester

Laboratory

Sr. No.	Assessment tools	Tool type	Time Span
1	Continuous Assessment Test1[CA1]	Direct Assessment	One test/semester
2	Continuous Assessment Test 2[CA2]		One test/semester
3	End Semester Examination [ESE]		One/Semester

Course Outcomes for the entire course are defined and they are 4 in number. As the program is affiliated to DBATU, external assessment is done as per the evaluation scheme of university and internal assessment is done as per the policy of the program.

All courses are categorized into 2 categories

1. Courses with theory examination: CO attainment is calculated considering 60 % of university examination and 40% of internal semester evaluation (CA1, MSE CA2)
2. Courses with practical examination: CO attainment is calculated considering 60% internal evaluation and 40% university examination evaluation

Attainment levels are assigned based on performance in Internal Semester Evaluation and University examinations

Theory

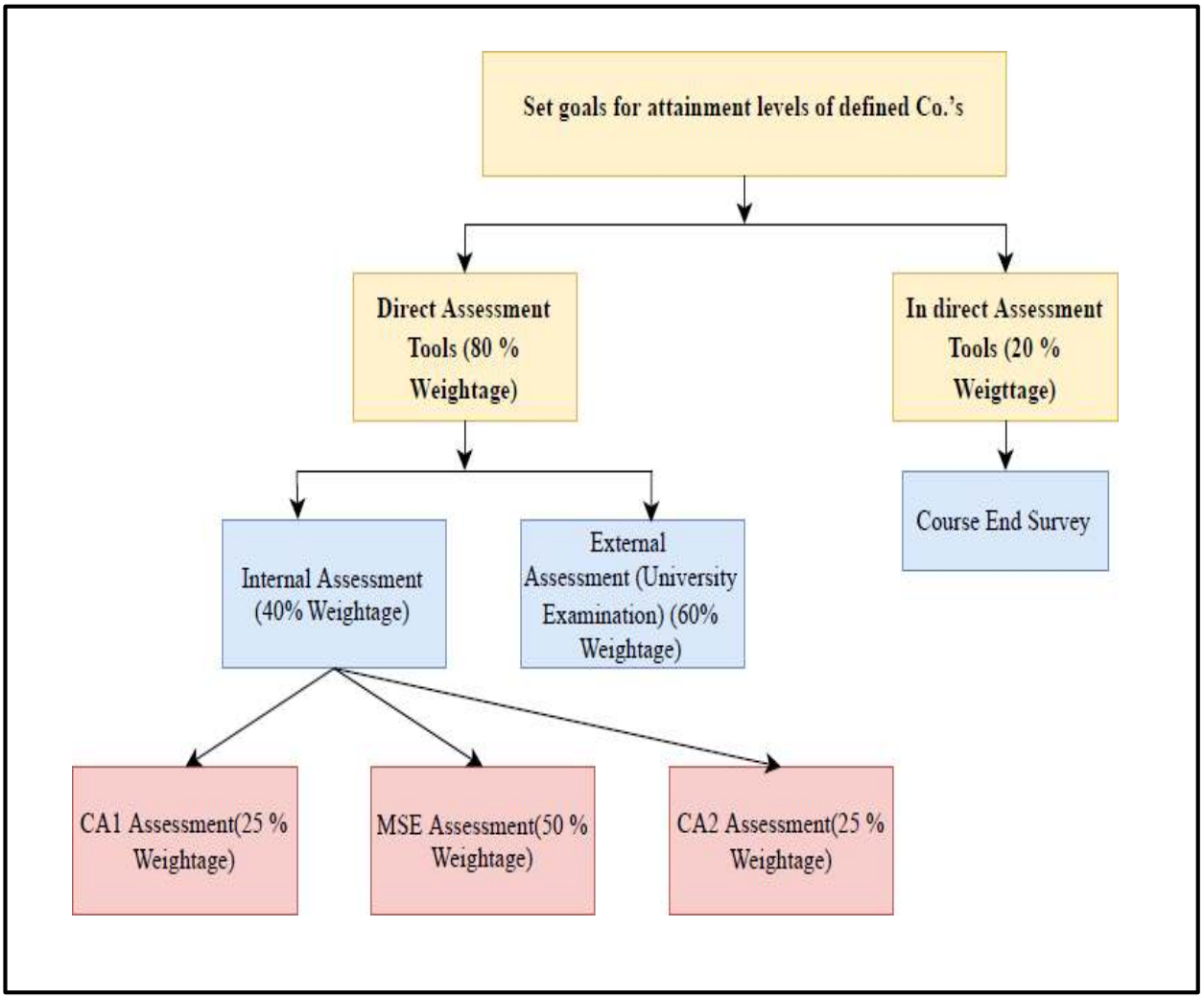


Fig1.Process of defining CO attainment Theory examination

Sr. No.	Assessment tools	Tool type	Attainment Level
1	ContinuousAssessmentTest1[CA1]	Direct Assessment	3 - 67%-100% 2 - 55%-66% 1 - 40%-54%
2	Mid Semester Examination [MSE]		3 - 67%-100% 2 - 55%-66% 1 - 40%-54%
3	Continuous Assessment Test 2[CA2]		3 - 67%-100% 2 - 55%-66% 1 - 40%-54%
4	End Semester Examination [ESE]		3 - 67%-100% 2 - 55%-66% 1 - 40%-54%

Laboratory

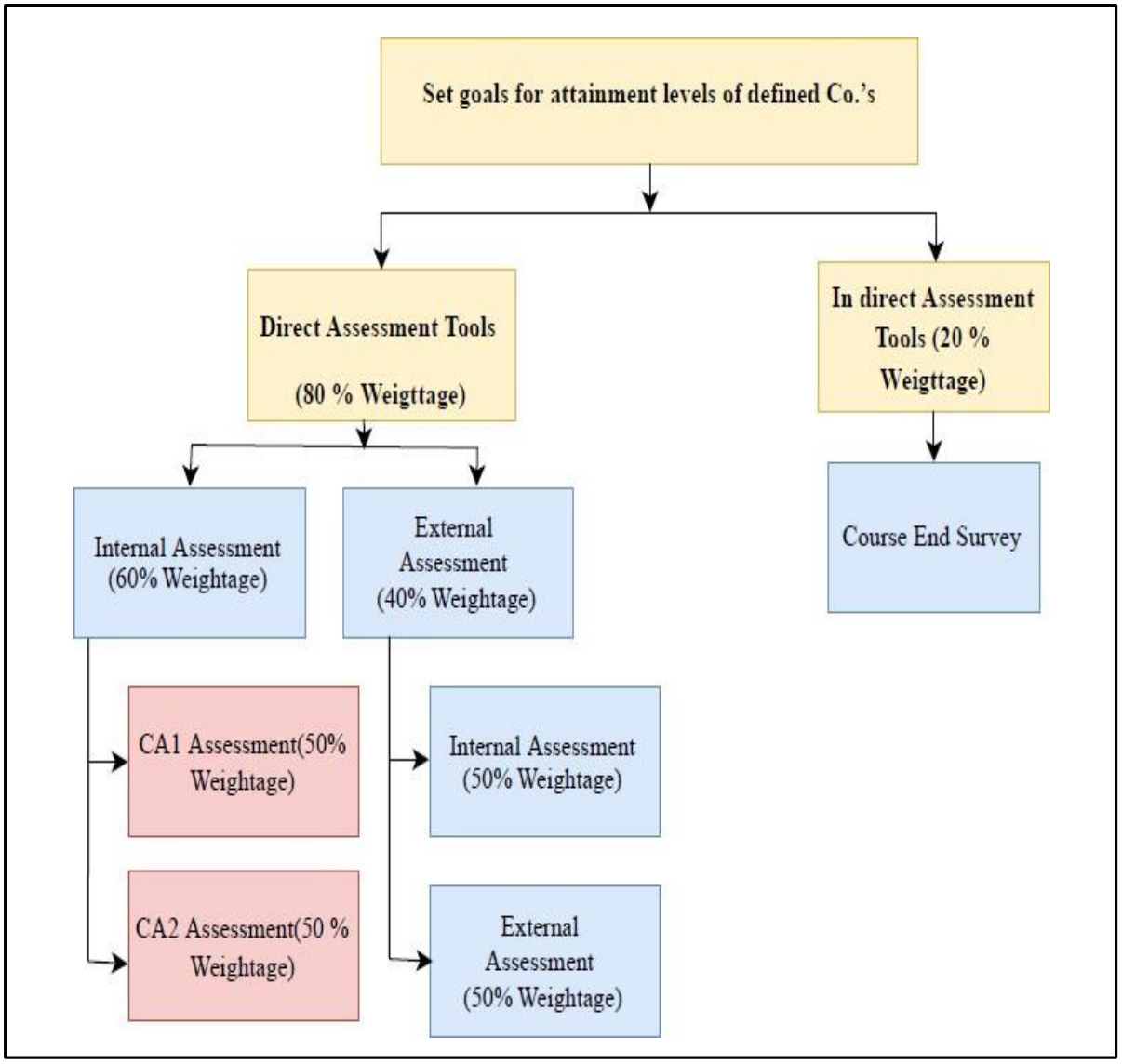


Fig2. Process of defining CO attainment practical examination

Sr.No.	Assessment tools	Tool type	Attainment Level
1	ContinuousAssessmentTest1 [CA1]	Direct Assessment	3 - 81% -100% 2 - 61%-80% 1 - 40%-60%
2	Continuous Assessment Test 2 [CA2]		3 - 81%-100% 2 - 61%-80% 1 - 40%-60%
3	End Semester Examination [ESE]		3 - 81%-100% 2 - 61%-80% 1 - 40%-60%

i. Record of the attainment of Course Outcomes of all courses with respect to set attainment levels (40)

Course Name: Discrete Mathematics **Year: 2019-20** **Course Name: BTCOC302** **Sem-III**						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Final Direct Course Attainment	Target	Remark
C302.1	[CA1]/ [CA2]/ [ESE]	1	3	2.80	1.8	Attained
C302.2		1.16	3	2.96	1.8	Attained
C302.3		1.1	3	2.90	1.8	Attained
C302.4		1.1	3	2.90	1.8	Attained

Course Outcome Attainment: 2.89

Course Name: Design & Analysis of Algorithm **Year: 2019-20** **Course Code: BTCOC401** **Sem-IV**						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C401.1	[CA1]/ [CA2]/ [ESE]	1	3	2.80	1.8	Attained
C401.2		1.2	3	3.00	1.8	Attained
C401.3		1.2	3	3.00	1.8	Attained
C401.4		1	3	2.80	1.8	Attained

Course Outcome Attainment: 2.90

Course Name: Database System **Course Code: BTCOC501**				**Year- 2020-21** **Sem-V**		
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C501.1	[CA1]/ [CA2]/ [ESE]	1.1	3	2.90	1.95	Attained
C501.2		1.15	3	2.95	1.95	Attained
C501.3		1.2	3	3.00	1.95	Attained
C501.4		1.2	3	3.00	1.95	Attained

Course Outcome Attainment: 2.96

Course Name: Artificial Intelligence **Course Code: BTCOE603**				**Year Year: 2020-21** **Sem-VI**		
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C603.1	[CA1]/ [CA2]/ [ESE]	1.1	3	2.90	1.95	Attained
C603.2		0.8	3	2.60	1.95	Attained
C603.3		0.8	3	2.58	1.95	Attained
C603.4		0.9	3	2.70	1.95	Attained

Course Outcome Attainment: 2.70

Course Name: Software Engineering						**Year: 2021-22**
Course Code: BTCOC701						**Sem-VII**
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C701.1	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	2.1	Attained
C701.2		1.2	3	3.00	2.1	Attained
C701.3		1.2	3	3.00	2.1	Attained
C701.4		1.2	3	3.00	2.1	Attained

Course Outcome Attainment: 3.00

Course Name: Social Network						**Year: 2021-22**
Course Code: BTCOE801 B						**Sem-VIII**
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C802F.1	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	2.1	Attained
C802F.2		1.15	3	2.95	2.1	Attained
C802F.3		1.2	3	3.00	2.1	Attained
C802F.4		1.1	3	2.90	2.1	Attained

Course Outcome Attainment: 2.9

Sl. No.	Course No	Course Name	CO1	CO2	CO3	CO4
1	BTBS101	Engineering Mathematics-I	2.95	2.97	2.98	2.98
			Attained	Attained	Attained	Attained
2	BTBS102	Engineering Physics	2.98	2.93	2.97	2.96
			Attained	Attained	Attained	Attained
3	BTES103	Engineering Graphics	2.87	2.87	2.84	2.78
			Attained	Attained	Attained	Attained
4	BTHM104	Communication Skills	2.95	2.97	2.98	2.92
			Attained	Attained	Attained	Attained
5	BTES105	Energy and Environment Engineering	2.95	2.97	2.98	2.92
			Attained	Attained	Attained	Attained
6	BTES106	Basic Civil and Mechanical Engineering	2.76	2.95	2.94	2.94
			Attained	Attained	Attained	Attained
7	BTBS107L	Engineering Physics Lab	2.91	2.93	2.99	2.98
			Attained	Attained	Attained	Attained
8	BTES108L	Engineering Graphics Lab	2.98	2.98	2.95	2.94
			Attained	Attained	Attained	Attained
9	BTHM109L	Communication Skills Lab.	2.91	2.93	2.99	2.98
			Attained	Attained	Attained	Attained
10	BTBS201	Engineering Mathematics- II	2.95	2.97	2.98	2.92
			Attained	Attained	Attained	Attained
11	BTBS202	Engineering Chemistry	2.98	2.93	2.97	2.96
			Attained	Attained	Attained	Attained
12	BTES203	Engineering Mechanics	3.01	2.96	2.93	2.97
			Attained	Attained	Attained	Attained
13	BTES204	Computer Programming in C	2.98	2.90	2.91	2.91
			Attained	Attained	Attained	Attained
14	BTES205	Workshop Practices	2.97	2.48	2.96	2.47
			Attained	Attained	Attained	Attained
15	BTES206	Basic Electrical and Electronics Engineering	2.76	2.95	2.94	2.94
			Attained	Attained	Attained	Attained

16	BTES207L	Computer programming Lab	2.97	2.47	2.96	2.51
			Attained	Attained	Attained	Attained
17	BTBS208L	Engineering Chemistry Lab	2.91	2.93	2.99	2.98
			Attained	Attained	Attained	Attained
18	BTES209L	Engineering Mechanics Lab	2.98	2.95	2.99	2.97
			Attained	Attained	Attained	Attained
19	BTES210P	Mini Project	2.16	2.17	2.15	2.16
			Attained	Attained	Attained	Attained
20	BTBS301	Engineering Mathematics – III	2.84	2.91	2.85	2.75
			Attained	Attained	Attained	Attained
21	BTCOC302	Discrete Mathematics	2.71	2.83	2.79	2.78
			Attained	Attained	Attained	Attained
22	BTCOC303	Data Structures	2.77	2.83	2.84	2.82
			Attained	Attained	Attained	Attained
23	BTCOC304	Computer Architecture & Organization	1.93	2.40	2.36	2.80
			Attained	Attained	Attained	Attained
24	BTCOC305	Digital Electronics & Microprocessor	2.53	2.57	2.60	2.59
			Attained	Attained	Attained	Attained
25	BTHM3401	Basic Human Rights	2.08	2.09	2.05	1.24
			Attained	Attained	Attained	Attained
26	BTCOL306	Python Programming	2.54	2.54	2.86	2.86
			Attained	Attained	Attained	Attained
27	BTCOL307	HTML and JavaScript	2.89	2.40	2.88	2.34
			Attained	Attained	Attained	Attained
28	BTCOL308	Data Structures Lab	2.91	2.42	2.88	1.87
			Attained	Attained	Attained	Attained
29	BTCOL309	Digital Electronics & Microprocessor Lab	2.41	2.90	2.38	2.35
			Attained	Attained	Attained	Attained
30	BTES211P	Field Training/Internship/Industrial Training Evaluation	2.88	2.88	2.83	2.82
			Attained	Attained	Attained	Attained

31	BTCOC401	Design & Anal1sis of Algorithms	2.75	2.90	2.85	2.67
			Attained	Attained	Attained	Attained
32	BTCOC402	Probabilit1 & Statistics	2.79	2.77	2.80	2.78
			Attained	Attained	Attained	Attained
33	BTCOC403	Operating Systems	2.77	2.89	2.75	2.75
			Attained	Attained	Attained	Attained
34	BTCOE404B	Elective-I Object Oriented Programming in C++	2.88	2.84	2.83	2.83
			Attained	Attained	Attained	Attained
35	BTID405	Product Design Engineering	2.84	2.04	2.84	2.04
			Attained	Attained	Attained	Attained
36	BTCOE406B	Numerical Methods	2.91	2.98	2.93	2.83
			Attained	Attained	Attained	Attained
37	BTCOL407	Design & Anal1sis of Algorithms Lab	2.43	2.89	2.39	2.82
			Attained	Attained	Attained	Attained
38	BTCOL408	Introduction to Data Science with R	2.92	2.59	2.54	2.37
			Attained	Attained	Attained	Attained
39	BTCOL409	Object Oriented Programming Lab	2.89	2.08	2.84	2.36
			Attained	Attained	Attained	Attained
40	BTCOL410	Operating S1stem Lab	2.99	2.50	2.97	2.51
			Attained	Attained	Attained	Attained
41	BTCOC501	Database Systems	2.78	2.81	2.84	2.84
			Attained	Attained	Attained	Attained
42	BTCOC502	Theory of Computation	2.88	2.86	2.88	2.79
			Attained	Attained	Attained	Attained
43	BTCOC503	Machine Learning	2.72	2.61	2.55	2.54
			Attained	Attained	Attained	Attained
44	BTCOE504	Elective-III Introduction to Research	2.81	2.81	2.83	2.77
			Attained	Attained	Attained	Attained
45	BTCOC505	Elective-IV Business Communication	2.81	2.76	2.60	2.59
			Attained	Attained	Attained	Attained
46	BTCOC506	Competitive Programming –I	2.92	2.90	2.40	2.87
			Attained	Attained	Attained	Attained

47	BTCOL507	Database System Laboratory	2.88	2.89	2.72	2.70
			Attained	Attained	Attained	Attained
48	BTCOL508	Machine Learning Laboratory	2.88	2.87	2.87	2.85
			Attained	Attained	Attained	Attained
49	BTCOS509	Seminar	2.88	2.89	2.87	2.37
			Attained	Attained	Attained	Attained
50	BTCOF411	Field Training/Internship/Industrial Training Evaluation	2.54	2.53	2.52	2.50
			Attained	Attained	Attained	Attained
51	BTCOC601	Compiler design	2.91	2.87	2.87	2.79
			Attained	Attained	Attained	Attained
52	BTCOC602	Computer network	2.88	2.87	2.85	2.82
			Attained	Attained	Attained	Attained
53	BTCOE603	Elective – V Artificial Intelligence	2.76	2.50	2.47	2.58
			Attained	Attained	Attained	Attained
54	BTCOE604	Elective VI Internet of things	2.88	2.88	2.86	2.70
			Attained	Attained	Attained	Attained
55	BTCOE605	Elective VII National social service	2.90	2.86	2.85	2.85
			Attained	Attained	Attained	Attained
56	BTCOC606	Competitive programming	2.85	2.41	2.38	2.83
			Attained	Attained	Attained	Attained
57	BTCOL607	Internet of things laboratory	2.74	2.87	2.86	2.73
			Attained	Attained	Attained	Attained
58	BTCOL608	Computer Networking laboratory	2.88	2.39	2.85	2.35
			Attained	Attained	Attained	Attained
59	BTCOC701	Software Engineering	2.85	2.84	2.82	2.85
			Attained	Attained	Attained	Attained
60	BTCOE702	Elective VIII Big data anal1sis	2.90	2.83	2.84	2.75
			Attained	Attained	Attained	Attained
61	BTCOE703	Elective IX Business Intelligence	2.74	2.75	2.73	2.75
			Attained	Attained	Attained	Attained
62	BTCOE704	Open Elective X Computer Graphics	2.90	2.83	2.81	2.81
			Attained	Attained	Attained	Attained

63	BTCOL705	Full Stack Development (LAMP/MEAN)	2.90	2.86	2.86	2.81
			Attained	Attained	Attained	Attained
64	BTCOL706	System Administration	2.58	2.86	2.54	2.49
			Attained	Attained	Attained	Attained
65	BTCOL707	Elective- VIII Lab	2.56	2.53	2.53	2.83
			Attained	Attained	Attained	Attained
66	BTCOL708	Elective-IX Lab	2.51	2.87	2.53	2.81
			Attained	Attained	Attained	Attained
67	BTCOL709	Project Phase I	2.89	2.86	2.87	2.83
			Attained	Attained	Attained	Attained
68	BTCOF609	Field Training/Internship/Industrial Training	2.91	2.88	2.86	2.81
			Attained	Attained	Attained	Attained
69	BTCOE801	Elective –XI Deep learning/ Social Networks	2.88	2.79	2.84	2.69
			Attained	Attained	Attained	Attained
70	BTCOE802	Introduction to Industry 4.0 and Industrial Internet of Things	2.90	2.82	2.82	2.76
			Attained	Attained	Attained	Attained
71	BTCOE803	Project Phase II	2.89	2.86	2.87	2.78
			Attained	Attained	Attained	Attained

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1 Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

List of PO and PSO Assessment Tools:

Assessment tools are categorized into two types for Program Outcomes (POs), Program Specific Outcomes (PSOs).

1. Direct Assessment Method– Through CO attainment in relevant courses.
2. Indirect Assessment Method –Employer Feedback, Alumni feedback, Program Exit Survey.

Direct Assessment methods:

CO attainment of course shows knowledge and skills obtained by students from respective courses derived from their performance in the continuous assessment, unit tests, online examinations, in-semester examinations, end-semester examinations, reviews, assignments etc. These methods provide strong evidence of student learning.

Indirect Assessment methods:

Surveys of students are taken to know their learning. Feedback of various stake holders like employer, alumni etc. is taken to know the capabilities and necessary improvements.

For e.g.

Employer survey: To provide information about our graduate's skills and capability.

Program exit survey: To evaluate the success of program in providing students with opportunities to achieve the POs and PSOs every year.

Process for Evaluation and Assessment of POs & PSOs

 The activity, questionaries and frequency of feedback is defined by the Program for POs and

PSOs attainment through in direct tools.

 The CO-PO mapping and CO attainment is considered as reference for PO attainment as a part of direct tool. If the CO average attainment (Internal & External) is achieved at level 3 then the PO attainment level is same CO-PO mapping level.

 If CO attainment level is 2/1/0 then CO - PO mapping level is transformed as per the CO attainment level as given below,

1. If CO attainment level is 1 and CO-PO mapping is at level 2 then PO attainment level will be (2*1)/3 = 0.667, here value 3 is maximum CO attainment level.
2. The same process is followed to calculate PSO attainment.

PO and PSO attainment are calculated by considering 80% weightage to direct assessment and 20% weightage to indirect assessment through surveys as shown in following figure

PO/PSO Attainment = 0.8 * Direct Attainment + 0.2 * Indirect Attainment

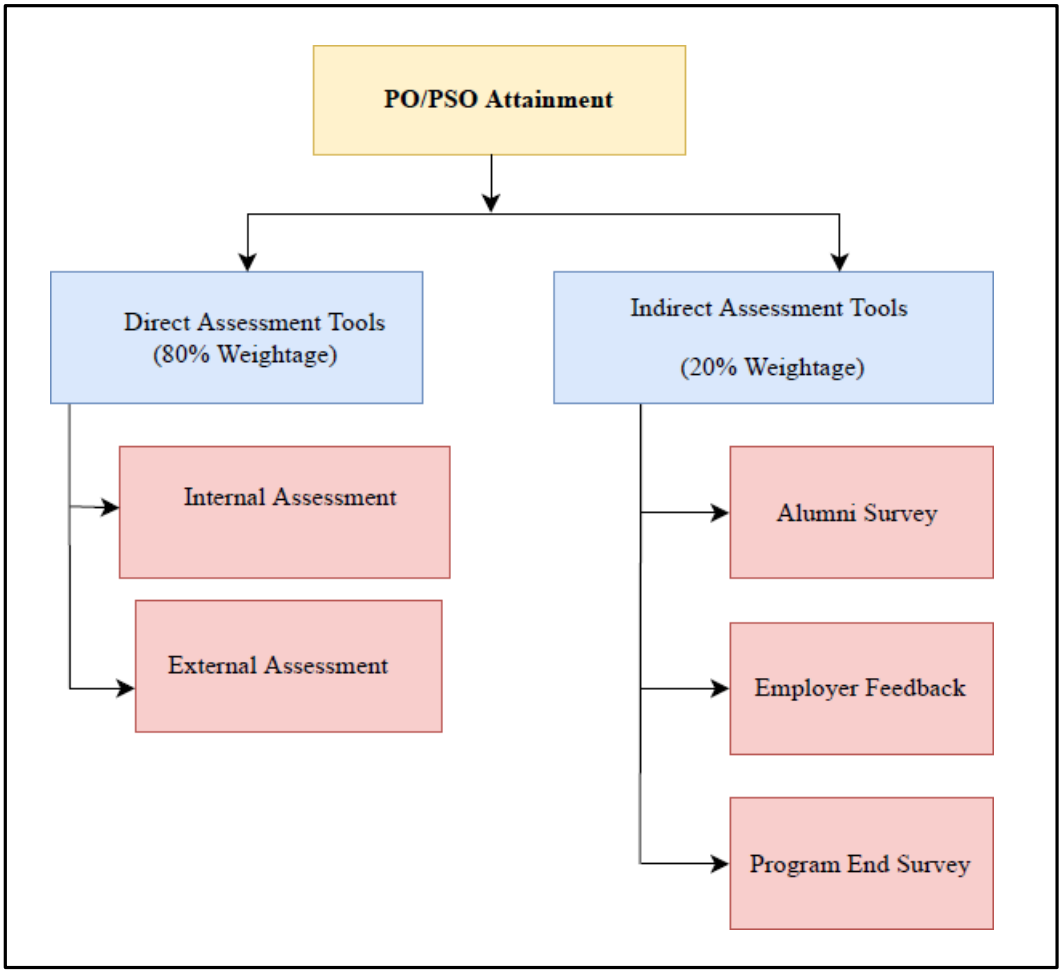


Fig 3 Process of defining PO/PSO Attainment

- **Direct Assessment Tools:**

Continuous Assessment Test1[CA1]
Mid Semester Examination [MSE]
Continuous Assessment Test 2[CA2]
End Semester Examination [ESE]
Lab Continuous Assessment Test 1
Lab Continuous Assessment Test 2

- **Indirect Assessment Tools:**

Course End Survey
Program End Survey
Employer Feedback
Alumni Survey

3.3.2 Provide results of evaluation of each PO&PSO (40)

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course–PO & PSO matrix as indicated).

PO Attainment:

Class	Course	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
SEM-I	BTBS101	Engineering Mathematics-I	2.94	2.95	2.97	1.76		2.92					2.95	2.95
	BTBS102	Engineering Physics	2.96	2.93	2.96	1.61		2.97	2.97					2.96
	BTES103	Engineering Graphics	2.83	2.86	2.85	1.76	2.82				2.86	2.83		2.84
	BTHM104	Communication Skills	2.95				2.97	2.97		2.97	2.97	2.96		
	BTES105	Energy and Environment Engineering	2.95	2.96	2.95	2.05		2.97	2.95	2.96		2.95	2.96	
	BTES106	Basic Civil and Mechanical Engineering	2.88	2.94	2.94	2.10			2.85			2.94	2.94	
	BTBS107L	Engineering Physics Lab	2.95	2.93	2.98	2.25		2.99	2.99					2.92
	BTES108L	Engineering Graphics Lab	2.96	2.97	2.96	1.79	2.95			2.98	2.97	2.96		2.96
	BTHM109L	Communication Skills Lab.	2.91				2.96	2.96		2.97	2.96	2.96		2.98
SEM-II	BTBS201	Engineering Mathematics- II	2.94	2.95	2.97	1.89		2.92					2.95	2.95
	BTBS202	Engineering Chemistry	2.96	2.93				2.93	2.96		2.93			
	BTES203	Engineering Mechanics	2.98	2.98	2.94			2.96			3.01			
	BTES204	Computer Programming in C	2.09	2.91	2.9						2.904	2.938		
	BTES205	Workshop Practices	2.73				2.61				2.73	2.73		
	BTES206	Basic Electrical and Electronics Engineering	2.85					2.82	2.95					
	BTES207L	Computer programming Lab	2.83	2.80	2.81		2.65	2.96	2.80		2.47	2.49		2.84
	BTBS208L	Engineering Chemistry Lab	2.94	2.93				2.93	2.92		2.93			

	BTES209L	Engineering Mechanics Lab	2.97	2.97	2.97			2.95			2.98			
	BTES210P	Mini Project	2.16	2.17			2.17	2.16	2.15	2.16	2.16	2.16		
SEM-III	BTBS301	Engineering Mathematics – III	2.83	2.86	2.85						2.85			2.87
	BTCOC302	Discrete Mathematics	2.81	2.89	2.79		2.75	2.76	2.83		2.89	2.84		2.82
	BTCOC303	Data Structures	2.81	2.80	2.82		2.82	2.84				2.82		2.81
	BTCOC304	Computer Architecture & Organization	1.93	1.93	2.32	2.75	2.51						2.21	
	BTCOC305	Digital Electronics & Microprocessor	2.57	2.60	2.53		2.59	2.53	2.57					2.60
	BTHM3401	Basic Human Rights			2.09		2.08			2.08	2.09	2.08		
	BTCOL306	Python Programming	2.54	2.78	2.73		2.73						2.54	
	BTCOL307	HTML and JavaScript	2.60	2.62	2.62		2.56	2.68	2.89		2.40	2.37		2.34
	BTCOL308	Data Structures Lab	2.62	2.42	2.59		1.87	2.88	2.66		2.42	2.20		2.65
	BTCOL309	Digital Electronics & Microprocessor Lab	2.41	2.90	2.38		2.35			2.35		2.38		2.41
	BTES211P	Field Training/Internship/Industrial Training Evaluation	2.87	2.85	2.88	3.00	2.88	2.88	2.88	2.88	2.86	2.88	2.85	2.85
SEM-IV	BTCOC401	Design & Anal1sis of Algorithms	2.80	2.78	2.78	2.79	2.75					2.78		2.75
	BTCOC402	Probability & Statistics	2.80	2.79	2.79		2.76		2.83		2.89	2.79		2.84
	BTCOC403	Operating Systems	2.80	2.89	2.78		2.75	2.75	2.83		2.89	2.83		2.82
	BTCOE404B	Elective-I Object Oriented Programming in C++	2.85	2.83	2.85	2.75	2.83	2.83	2.86				2.83	2.83
	BTID405	Product Design Engineering	2.04	2.84	2.84	3.00		2.04			2.04	2.84		
	BTCOE406B	Numerical Methods	2.93	2.89	2.98		2.90				2.98		2.98	2.93
	BTCOL407	Design & Anal1sis of Algorithms Lab	2.63	2.63	2.63		2.63					2.82		2.63
	BTCOL408	Introduction to Data Science with R	2.66	2.59	2.63		2.37	2.54	2.76		2.59	2.50		2.56

	BTCOL409	Object Oriented Programming Lab	2.74	2.37	2.78	2.50	2.84	2.65	2.48				2.36	2.22
	BTCOL410	Operating S1stem Lab	2.77	2.50	2.79		2.51	2.97	2.74		2.50	2.50		2.73
SEM-V	BTCOC501	Database Systems	2.82	2.81	2.79	2.82	2.82		2.84			2.81	2.81	2.83
	BTCOC502	Theory of Computation	2.88	2.87	2.87	2.75	2.82		2.86					2.88
	BTCOC503	Machine Learning	2.60	2.59	2.59		2.59		2.62		2.61	2.56		2.61
	BTCOE504	Elective-III Introduction to Research	2.81	2.81	2.79		2.77	2.83		2.80		2.77		2.81
	BTCOC505	Elective-IV Business Communication		2.78			2.68	2.79	2.79	2.79	2.72	2.69	2.59	2.69
	BTCOC506	Competitive Programming –I	2.90	2.40	2.92		2.40			2.87		2.90		2.92
	BTCOL507	Database S1stem Laboratory	2.82	2.80	2.81	2.75	2.75	2.78	2.72	2.83	2.72	2.79	2.75	2.75
	BTCOL508	Machine Learning Laboratory	2.86	2.88	2.87	2.75	2.87	2.88	2.88		2.86	2.87		2.87
	BTCOS509	Seminar	2.83	2.89	2.78		2.37	2.87	2.89		2.89	2.68		2.88
	BTCOF411	Field Training/Internship/Industrial Training Evaluation	2.76	2.63	2.89	3.00	2.89	2.87	2.89	2.87	2.69	2.87	2.63	2.63
SEM-VI	BTCOC601	Compiler design	2.86	2.90	2.90	2.75	2.84		2.95					
	BTCOC602	Computer network	2.88	2.88	2.86	3.00	2.84						2.87	
	BTCOE603	Elective – V Artificial Intelligence	2.68	2.67	2.69		2.66		2.76		2.71	2.63		2.66
	BTCOE604	Elective VI Internet of things	2.85	2.79	2.86	2.75	2.82	2.86	2.86	2.87	2.86	2.81	2.87	2.87
	BTCOE605	Elective VII National social service	2.87	2.86	2.87		2.85	2.80	2.86		2.86	2.85		2.86
	BTCOC606	Competitive programming	2.41	2.38	2.85			2.83		2.41		2.85	2.38	
	BTCOL607	Internet of things laboratory	2.82	2.80	2.79	3.00	2.81	2.81	2.86	2.82	2.86	2.80	2.81	2.76
	BTCOL608	Computer Networking laboratory	2.39	2.35	2.73	2.75	2.66						2.39	

SEM-VII	BTCOC701	Software Engineering	2.89	2.89	2.90	2.00	2.89	2.94	2.90	2.90	2.83	2.87	2.83	2.88
	BTCOE702	Elective VIII Big data anal1sis	2.50	2.35	2.34		2.34	2.27	2.13					2.34
	BTCOE703	Elective IX Business Intelligence	2.74	2.74	2.75	3.00	2.74						2.74	
	BTCOE704	Open Elective X Computer Graphics	2.85	2.83	2.84		2.81	2.81	2.87		2.83	2.82		2.82
	BTCOL705	Full Stack Development (LAMP/MEAN)	2.86	2.86	2.86	3.00	2.86	2.81	2.84		2.81			2.85
	BTCOL706	System Administration	2.65	2.86	2.61	2.67	2.49	2.54	2.72		2.86	2.71		2.70
	BTCOL707	Elective- VIII Lab	2.50	2.53	2.60	2.80	2.83	2.53	2.55		2.53	2.65		2.53
	BTCOL708	Elective-IX Lab	2.67	2.87	2.65	2.80	2.81	2.53	2.69		2.87	2.85		2.70
	BTCOL709	Project Phase I	2.87	2.84	2.85	3.00	2.87	2.85	2.87	2.85	2.86	2.86	2.86	2.85
	BTCOF609	Field Training/Internship/Industrial Training	2.87	2.87	2.88	2.80	2.89	2.89	2.88	2.89	2.86	2.90	2.87	2.89
SEM-VIII	BTCOE801	Elective –XI Deep learning/ Social Networks	2.81	2.83	2.77	2.78	2.88	2.77						2.69
	BTCOE802	Introduction to Industry 4.0 and Industrial Internet of Things	2.83	2.79	2.81	2.75	2.80	2.78	2.82	2.82	2.82	2.90	2.82	2.90
	BTCOE803	Project Phase II	2.86	2.82	2.83	2.79	2.86	2.83	2.87	2.83	2.87	2.85	2.84	2.83

PO Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.67	2.64	2.69	2.66	2.67	2.61	2.70	2.73	2.76	2.76	2.62	2.66
Direct Attainment	2.76	2.74	2.79	2.80	2.75	2.76	2.79	2.81	2.81	2.81	2.74	2.77
Indirect Attainment	2.29	2.24	2.28	2.09	2.33	2.03	2.35	2.43	2.58	2.58	2.16	2.22

PSO Attainment:

Academic Year: 2021-22			Programme Specific Outcome (PSO)	
sl.no	Course	Course Name	PSO1	PSO2
1	BTBS101	Engineering Mathematics-I	2.96	2.95
2	BTBS102	Engineering Physics		
3	BTES103	Engineering Graphics		
4	BTHM104	Communication Skills	2.95	2.97
5	BTES105	Energy and Environment Engineering		2.95
6	BTES106	Basic Civil and Mechanical Engineering		
7	BTBS107L	Engineering Physics Lab	2.92	2.91
8	BTES108L	Engineering Graphics Lab		
9	BTHM109L	Communication Skills Lab.	2.91	2.93
10	BTBS201	Engineering Mathematics- II	2.96	2.95
11	BTBS202	Engineering Chemistry		
12	BTES203	Engineering Mechanics		
13	BTES204	Computer Programming in C	2.98	2.9
14	BTES205	Workshop Practices		
15	BTES206	Basic Electrical and Electronics Engineering		
16	BTES207L	Computer Programminging Lab	2.73	2.65
17	BTBS208L	Engineering Chemistry Lab		
18	BTES209L	Engineering Mechanics Lab		
19	BTES210P	Mini Project	2.17	2.15
20	BTBS301	Engineering Mathematics – III	2.84	
21	BTCOC302	Discrete Mathematics	2.70	2.66
22	BTCOC303	Data Structures	2.71	2.72
23	BTCOC304	Computer Architecture & Organization	2.24	2.24

24	BTCOC305	Digital Electronics & Microprocessor	2.19	2.09
25	BTHM3401	Basic Human Rights		
26	BTCOL306	Python Programming	2.78	2.63
27	BTCOL307	HTML and JavaScript	2.67	2.40
28	BTCOL308	Data Structures Lab	2.21	2.89
29	BTCOL309	Digital Electronics & Microprocessor Lab	2.89	
30	BTES211P	Field Training/Internship/Industrial Training Evaluation	2.87	2.88
31	BTCOC401	Design & Anal1sis of Algorithms	2.78	2.80
32	BTCOC402	Probabilit1 & Statistics	2.82	2.83
33	BTCOC403	Operating Systems	2.75	2.82
34	BTCOE404 B	Elective-I Object Oriented Programming in C++	2.85	2.84
35	BTID405	Product Design Engineering	2.84	2.57
36	BTCOE406 B	Numerical Methods	2.94	2.89
37	BTCOL407	Design & Anal1sis of Algorithms Lab	2.66	2.63
38	BTCOL408	Introduction to Data Science with R	2.55	2.56
39	BTCOL409	Object Oriented Programming Lab	2.57	2.55
40	BTCOL410	Operating S1stem Lab	2.67	2.73
41	BTCOC501	Database Systems	2.81	2.84
42	BTCOC502	Theory of Computation	2.85	2.88
43	BTCOC503	Machine Learning	2.58	2.58
44	BTCOE504	Elective-III Introduction to Research	2.81	2.81
45	BTCOC505	Elective-IV Business Communication	2.69	2.71
46	BTCOC506	Competitive Programming –I	2.74	2.90
47	BTCOL507	Database System Laboratory	2.80	2.77
48	BTCOL508	Machine Learning Laboratory	2.87	2.87
49	BTCOS509	Seminar	2.54	2.88
50	BTCOF411	Field Training/Internship/Industrial Training Evaluation	2.53	2.52

51	BTCOC601	Compiler design	2.83	2.95
52	BTCOC602	Computer network	2.85	2.86
53	BTCOE603	Elective – V Artificial Intelligence	2.54	2.49
54	BTCOE604	Elective VI Internet of things	2.87	2.80
55	BTCOE605	Elective VII National social service		
56	BTCOC606	Competitive programming	2.62	2.61
57	BTCOL607	Internet of things laboratory	2.87	2.76
58	BTCOL608	Computer Networking laboratory	2.64	2.70
59	BTCOC701	Software Engineering	2.85	2.83
60	BTCOE702	Elective VIII Big data anal1sis	2.84	2.81
61	BTCOE703	Elective IX Business Intelligence	2.74	2.74
62	BTCOE704	Open Elective X Computer Graphics	2.84	2.82
63	BTCOL705	Full Stack Development (LAMP/MEAN)	2.86	2.84
64	BTCOL706	System Administration	2.52	2.70
65	BTCOL707	Elective- VIII Lab	2.74	2.53
66	BTCOL708	Elective-IX Lab	2.71	2.70
67	BTCOL709	Project Phase I	2.87	2.86
68	BTCOF609	Field Training/Internship/Industrial Training	2.87	2.89
69	BTCOE801	Elective –XI Deep learning/ Social Networks	2.78	2.74
70	BTCOE802	Introduction to Industry 4.0 and Industrial Internet of Things	2.82	2.87
71	BTCOE803	Project Phase II	2.87	2.83

PSO Attainment:

Course	PSO1	PSO2
PSO Attainment	2.66	2.62
Direct Attainment	2.74	2.64
Indirect Attainment	2.34	2.14

CRITERION 04	**Students' Performance**	**150**

4. STUDENTS' PERFORMANCE (150)

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (2022-23	CAYm1 (2021-22)	CAY*m*2 (2020-21)	CAY*m*3 (2019-20)	CAY*m*4 (2018-19)	CAY*m*5 (2017-18)	CAY*m*6 (2016-17
Sanctioned intake of the program (*N*)	**120**	**60**	**60**	**60**	**60**	**60**	**45**
Total number of students admitted in first year *minus* number of students migrated to other programs/institutions plus no. of students migrated to this program (*N*1)	**132**	**69**	**52**	**47**	**47**	**46**	**10**
Number of students admitted in 2nd year in the same batch via lateral entry (*N*2)	**0**	**8**	**21**	**21**	**19**	**26**	**31**
Separate division students, if applicable (*N3*)	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total number of students admitted in the Program (*N*1 + *N*2 + N3)	**132**	**77**	**73**	**68**	**66**	**72**	**41**

Table B.4a

Year of entry	*N*1 + *N*2 + N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I Year	II Year	III Year	IV Year
CAY(2022-23)	**132**				
CAY m1(2021-22)	**77(69+8)**	**23**			
CAY*m*2(2020-21)	**73(52+21)**	**52**	**62**		
CAY*m*3(2019-2020)	**68(47+21)**	**35**	**56**	**51**	
CAYm4/LYGm1(2018-2019)	**66(47+19)**	**23**	**43**	**43**	**43**
CAYm5 /LYGm2(2017-18)	**72(46+26)**	**34**	**49**	**49**	**49**
CAYm6 /LYGm3(2016-17)	**41(10+31)**	**2**	**27**	**14**	**14**

TableB.4b

Year of entry	*N*1 + *N*2 + N3 (As defined above)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I Year	**II Year**	**III Year**	**IV Year**
CAY(2022-23)	**132**				
CAYm1(2021-22)	**77(69+8)**	**69**			
CAYm2(2020-21)	**73(52+21)**	**52**	**72**		
CAYm3(2019-2020)	**68(47+21)**	**47**	**66**	**66**	
CAYm4/LYGm1(2018-2019)	**66(47+19)**	**46**	**64**	**62**	**62**
CAYm5 /LYGm2(2017-18)	**72(46+26)**	**42**	**66**	**66**	**66**
CAYm6 /LYGm3(2016-17)	**41(10+31)**	**7**	**33**	**33**	**32**

4.1 Enrolment Ratio (20) Enrolment Ratio=N1/N

	N from table B.4a	N1 from table B. 4a	Enrollment ratio
CAY(2022-23)	120	132	110
CAYm1(2021-22)	60	69	115
CAYm2(2020-21)	60	52	86
Average Enrollment=(ER1+ER2+ER3)/3=(110+115+86)/3=103.6			

Item (Students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year)	**Marks**
>=90% students enrolled	20
>=80% students enrolled	18
>=70% students enrolled	16
>=60% students enrolled	14
>=50% students enrolled	12
Otherwise	0

Table B.4.1

4.2 Success Rate in the stipulated period of the program (40)

4.2.1 Success rate without backlogs in any semester/year of study (25)

SI= (Number of students who have graduated from the program without backlog)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = Mean of Success Index (SI) for past three batches

Success rate without backlogs in any year of study = 25 × Average SI=25*0.55=13.75

Item	Latest Year of Graduation, LYG (2018-19)	Latest Year of Graduation, LYGm1 (2017-18)	Latest Year of Graduation, LYGm2 (2016-17)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	66	72	41
Number of students who have graduated without backlogs in the stipulated period	43	49	14
Success Index (SI)	**0.65**	**0.68**	**0.34**
Average SI	**0.55**		

Table B.4.2.1

4.2.2 Success rate in stipulated period of study **(15)**

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actual admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = mean of Success Index (SI) for past three batches

Success rate = 15 × Average SI=15 × 0.87= 13.05

Item	Latest Year of Graduation, LYG (2018-19)	Latest Year of Graduation, LYGm1 (2017-18)	Latest Year of Graduation, LYGm2 (2016-17)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if Applicable	66	72	41
Number of students who have graduated in the stipulated Period	62	66	32
Success Index (SI)	**0.93**	**0.92**	**0.78**
Average Success Index	**0.87**		

Table B.4.2.2

Note: If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Third Year (15)

Academic Performance = 1.5 * Average API (Academic Performance Index)=8.28*1.5=12.42

***API** = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x (number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the final year.

Academic Performance	**CAYm1 (2021-22)**	**CAYm2 (2020-21)**	**CAY*m3* (2019-20)**
Mean of CGPA or Mean Percentage of all successful students (X)	8.33	8.49	8.03
Total no. of successful students (Y)	66	62	66
Total no. of students appeared in the examination (Z)	66	62	66
API = X* (Y/Z)	**8.33**	**8.49**	**8.03**
Average API = (AP1 + AP2 + AP3)/3	**8.28**		

Table B.4.3

4.4 Academic Performance in Second Year (15)

*Academic Performance Level = 1.5 * Average API (Academic Performance Index)=(1.5*8.08=12.12)*

***API** = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	**CAYm1 (2021-22**	**CAYm2 (2020-21)**	**CAY*m3* (2019-20)**
Mean of CGPA or Mean Percentage of all successful students (X)	8.03	8.29	8.05
Total no. of successful students (Y)	72	66	64
Total no. of students appeared in the examination (Z)	72	67	64
API = X* (Y/Z)	**8.03**	**8.16**	**8.05**
Average API = (AP1 + AP2 + AP3)/3	**8.04**		

Table B.4.4

4.5 Placement, Higher Studies and Entrepreneurship (40)

Assessment Points = 40 × 0.90=36

Item	CAY*m1* (2021-22)	CAY*m2* **(2020-21)**	CAY*m3* **(2019-20)**
Total No. of Final Year Students (N)	**62**	**66**	32
No. of students placed in companies or Government Sector (x)	52	64	26
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	0	0	2
No. of students turned entrepreneur in engineering/technology (z)	0	0	0
x + y + z =	**52**	**64**	**28**
Placement Index : (x + y + z)/N	**P1=0.84**	**P1=0.97**	**P2=0.88**
Average placement= (P1 + P2 + P3)/3	**0.90**		

Table B.4.5

4.5 a. Provide the placement data in the below mentioned format with the name of the program and the assessment year

Computer Science and Engineering (2021-22)				
Sl. No.	**Name of the student placed**	**Enrollment no.**	**Name of the Employer**	**Appointment letter reference no. with date**
1	GHADGE VISHAKHA HANMANT	PRN:1965451242001	Infosysis, Pune	TPC/1242/2022/001
2	KAMBLE SURAJ PRADIP	PRN:1965451242013	Web softera It Services & Marketing Private Limited, Pune	TPC/1242/2022/013
3	SHINDE HARSHAD PRASHANT	PRN:1965451242014	Webotix technology,satara.	TPC/1242/2022/014
4	KULAL RAKSHA NARAYAN	PRN:1965451242016	Dutypar Technologies, Pune	TPC/1242/2022/016
5	BENDRE PRATIK UMESH	PRN:1965451242017	FA Software Solution Pvt Ltd Pune	TPC/1242/2022/017
6	PATIL PRANITA SANJAY	PRN:1965451242024	Rocklike Techventures, Satara	TPC/1242/2022/024
7	GHADAGE MEGHA KRISHNAT	PRN:1965451242025	Source Code Technologies, Pune	TPC/1242/2022/025
8	PISAL VAISHNAVI KIRAN	PRN:1965451242026	Source Code Technologies, Pune	TPC/1242/2022/026
9	SABLE PRACHI SAYAJI	PRN:1965451242021	Source Code Technologies, Pune	TPC/1242/2022/021
10	KATKAR ARATI VILAS	PRN:1965451242031	NCSI Technologies(India),Private Ltd Pune	TPC/1242/2022/031
11	GORE MONIKA MOHAN	PRN:1965451242028	OMVSAB IT Solution Pune	TPC/1242/2022/028

12	JADHAV AKSHADA SANJAY	PRN:1965451242029	Source Code Technology , Pune	TPC/1242/2022/029
13	SOURABH SUNIL YERUDKAR	PRN:"5165452018112 4210029	Aditya IT Solutions, kolhapur	TPC/1242/2022/0029
14	MAHAMUNI PRANALI SHIVAJI	PRN:1965451242032	Capgemini Technology Services India Ltd	TPC/1242/2022/032
15	GHORPADE SWARUPA KISHOR	PRN:5165452018112 4210045	3starIT solutions, satara.	TPC/1242/2022/0045
16	KORADE SHUBHAM ASHOK	PRN:5165452018112 4210026	Microdyanamic Software Pvt. Ltd	TPC/1242/2022/026
17	SHINDE AKASH GOPINATH`	PRN:5165452018112 4210049	GT Financial Services, Pune	TPC/1242/2022/0049
18	KADAM SAURABH SANJAY	PRN:5165452018112 4210028	ACME Infovision Pvt Ltd, Satara	TPC/1242/2022/028
19	MULIK ANUJ VILAS	PRN:5165452018112 4210056	Vision HLT Pvt Ltd	TPC/1242/2022/0056
20	DIVYA DINESH VELAPURE	PRN:5165452018112 4210058	Nebula Technologies	TPC/1242/2022/0058
21	SONAWANE SHREYASH SANTOSH	PRN:5165452018112 4210065	Nebula Technologies	TPC/1242/2022/0065
22	WASKE SHWETA AVINASH	PRN:5165452018112 4210066	Nebula Technologies	TPC/1242/2022/0066

23	MOMIN ALFARAHAS FARUKH	PRN:51654520181124210033	Stylopedia Technology Pvt Ltd, Satara	TPC/1242/2022/033
24	METKARI VISHVANTH TATOBA	PRN:51654520181124210034	markets and markets, pune.	TPC/1242/2022/034
25	KADAM NISHANT RAJENDRA	PRN:51654520181124210035	Wipro Ltd, pune	TPC/1242/2022/035
26	DIVYA KISAN WASKE	PRN:51654520181124210036	Kore AI Solution Pvt Ltd Pune	TPC/1242/2022/036
27	DONGARE SWAROOP MANGESH	PRN:51654520181124210038	Hexaware Technologies, Pune	TPC/1242/2022/038
28	ANANDE MAHESH ABASAHEB	PRN:51654520181124210039	Fibit Infotech Pvt. Ltd.,pune.	TPC/1242/2022/039
29	JIRAGE KUNAL SANDEEP	PRN:51654520181124210042	Hap Hup LLM, Pune	TPC/1242/2022/042
30	BHISE TEJASWINI BHIMRAO	PRN:51654520181124210043	Tensor Apps Pvt Ltd Pune	TPC/1242/2022/043
31	JADHAV SHIVANJALI DILIP	PRN:51654520181124210044	Infosysis, Pune	TPC/1242/2022/044
32	PISAL KAUSTUBH SHAHAJI	PRN:51654520181124210046	Sphinx solution, Pune	TPC/1242/2022/046
33	KAMBALE SHILPA RAM	PRN:51654520181124210047	Converge Technology, Pune	TPC/1242/2022/047
34	NAZARKAR KAJAL UMESH	PRN:51654520181124210048	Quantiphi, Mumbai	TPC/1242/2022/048
35	SHINDE KAVITA MOHAN	PRN:51654520181124210052	Infosys, Pune	TPC/1242/2022/052
36	HIVARKAR KOMAL ARJUN	PRN:51654520181124210053	Data Entrega, Pune	TPC/1242/2022/053
37	BORATE SWAPNALI DILIP	PRN:51654520181124210054	Infosysis technology, Pune.	TPC/1242/2022/054

38	CHAVAN POOJA NANASAHEB	PRN:5165452018112 4210055	Fibit Infotech Pvt. Ltd.,pune.	TPC/1242/2022/055
39	DANGE MUSKAN SHAKIL	PRN:5165452018112 4210059	WNS Global Services, Pune	TPC/1242/2022/059
40	BHOSALE PRATIKSHA CHANGDEV	PRN:5165452018112 4210060	Infosys, Pune	TPC/1242/2022/060
41	MANE NILAM DATTATRAY	PRN:5165452018112 4210061	CAS EXIM And Business Services, satara.	TPC/1242/2022/061
42	PARDESHI SHIVANI SUNIL	PRN:5165452018112 4210062	Infosys, Pune/ Talentserv Consulting Pvt Ltd, Pune	TPC/1242/2022/062
43	SUL SUPRIYA ARJUN	PRN:5165452018112 4210063	AppZia technologies, Pune	TPC/1242/2022/063
44	SHRIKANT VITTHAL SHEJWAL	PRN:5165452018112 4210064	2020analytics insights, pune.	TPC/1242/2022/064
45	MORE ASHWINI SAYAJI	PRN:5165452018112 4210067	Bpointer Technologies, Pune	TPC/1242/2022/067
46	PAWAR GAURI MOHAN	PRN:5165452018112 4210068	AB Software Solutions, Satara	TPC/1242/2022/068
47	YADAV KIRAN SURYAKANT	PRN:5165452018112 4210069	Sigma Infraplan Engg. Pvt Ltd, Kolhapur	TPC/1242/2022/069
48	DAMAKALE AKANKSHA SANJAY	PRN:5165452018112 4210070	DWplace Solution, Pune	TPC/1242/2022/070
49	PATIL SHIVJYOTI DILIP	PRN:5165452018112 4210071	AGCE Satara	TPC/1242/2022/071
50	MORE SHUBHANGI UTTAM	PRN:5165452018112 4210072	Solve All Solutions, Pune	TPC/1242/2022/072
51	DALAVI PRANITA TUKARAM	PRN:5165452018112 4210074	Thyssenkrup Materials IT Services India Pvt Ltd, Thane	TPC/1242/2022/074
52	NIKAM SHUBHAM PRATAP	PRN:"516545201811 37210053	Whileone Techsoft, Pune	TPC/1242/2022/053

Computer Science and Engineering (2020-21)				
S.no.	**Name of the student placed**	**Enrollment no.**	**Name of the Employer**	**Appointment letter reference no. with date**
1	POONAM JAGANNATH VEDPATHAK	51654520171124210003	Capgemini	TPC/1242/2021/003/10-09-2021
2	METKARI PRIYANKA TATOBA	51654520171124210004	SourceCode technology Pvt Ltd, Pune	TPC/1242/2021/004/14-09-2021
3	KOLI TEJASWINI DIPAK	51654520171124210005	SourceCode technology Pvt Ltd	TPC/1242/2021/005/01-09-2021
4	KUMBHAR MAYUR VIJAY	51654520171124210006	iMuons Web Solutions Pvt. Ltd Pune	TPC/1242/2021/006/21-01-2021
5	KOTHAWALE AISHWARRYA KISHOR	51654520171124210007	Kan Infocom	TPC/1242/2021/007/01-01-2021
6	PARDESHI PAYAL GOPAL	51654520171124210008	Cognizant	TPC/1242/2021/008/19-11-2021
7	MALUSARE SONALI VIJAY	51654520171124210009	Wipro	TPC/1242/2021/009/20-12-2021
8	NIKAM PRATIKSHA DATTATRAY	51654520171124210010	Intellect Pune	TPC/1242/2021/010/22-12-2021
9	PATIL SHIVANI ABHIJIT	51654520171124210011	Infosysis Limited Pune	TPC/1242/2021/011/09-09-2021
10	KUMBHAR SHUBHAM MUKUND	51654520171124210013	Fable FinTech Pvt Ltd, Mumbai	TPC/1242/2021/013/09-09-2021
11	PARIHAR VIDYA SURESH	51654520171124210014	Fujitsu Consulting India Pvt Ltd, Pune	TPC/1242/2021/014/23-02-2022
12	MADRE MANISHA BIRAPPA	51654520171124210015	eClerx Service Ltd.	TPC/1242/2021/015/17-09-2021
13	CHAVAN SAKSHI PRAKASH	51654520171124210016	Application Software Technologies, Pune	TPC/1242/2021/016/05-02-2021
14	LAKADE SUNITA BALU	51654520171124210017	SourceCode technology Pvt Ltd, Pune	TPC/1242/2021/017/14-09-2021
15	DHANAWADE RUTUJA RAJENDRA	51654520171124210018	Fujitsu Consulting India Pvt Ltd, Pune	TPC/1242/2021/018/16-10-2021
16	BANSODE POOJA SUBHASH	51654520171124210019	Bynaric Systems Pvt Ltd Pune 02025640717	TPC/1242/2021/019/27-01-2022
17	KADAM BHAVANA BHAGWAN	51654520171124210020	DXC Technology India Pvt Ltd	TPC/1242/2021/020/17-11-2021
18	KALANGE CHITRANJALI ADIK	51654520171124210021	Unisoft, Pune	TPC/1242/2021/021/17-09-2021
19	DESHMUKH ANUSHKA ASITKUMAR	51654520171124210022	Infostretch Corporation Pvt Ltd, Pune	TPC/1242/2021/022/12-08-2021

20	PAWAR ANIKET SANJAY	516545201711242100 23	Biz 4 Solutions Private Limited, Pune.	TPC/1242/2021/023/21-06-2021
21	SHIRKE PRATIKSHA SANTOSH	516545201711242100 24	eClerx Service Ltd.	TPC/1242/2021/024/18-08-2021
22	DUGANI SNEHA BASAPPA	516545201711242100 25	Zensar Technologies ltd	TPC/1242/2021/025/20-12-2021
23	PAWAR SAYALI SOMNATH	516545201711242100 26	Suma Pvt Ltd	TPC/1242/2021/026/18-02-2022
24	DESAI AKASH PRAMOD	516545201711242100 27	Tata Communication Transformation Services Ltd, Pune +91-022-40549797	TPC/1242/2021/027/29-07-2021
25	DALAVI SHIVANI DATTATRAY	516545201711242100 28	Cognizant	TPC/1242/2021/028/19-11-2021
26	WAGH ROHIT PRAMOD	516545201711242100 30	Bottomline Technologies, Banglore	TPC/1242/2021/030/23-08-2021
27	PALLAVI RAMESH LOKARE	516545201711242100 31	ICReon, Pune	TPC/1242/2021/031/23-02-2022
28	INGAWALE PRATIKSHA DEVENDRA	516545201711242100 33	Source Code technology Pvt Ltd, Pune 9673921886	TPC/1242/2021/033/14-09-2021
29	GAIKWAD TEJASWINI PRAKASH	516545201711242100 35	Fujitsu Consulting India Pvt Ltd, Pune +912027690001	TPC/1242/2021/035/25-03-2022
30	SHINDE RUTUJA SANJAY	516545201711242100 36	Fujitsu Consulting India Pvt Ltd, Pune +912027690001	TPC/1242/2021/036/16-10-2021
31	PAWAR POOJA BALASAHEB	516545201711242100 37	Publicis Sapient +91 (124) 672 4000	TPC/1242/2021/037/01-11-2021
32	PAWAR VIRAJ VIKAS	516545201711242100 38	CDAC, Pune	TPC/1242/2021/038/29-04-2022
33	YADAV SHIVANI RAHUL	516545201711242100 39	Virtusa, Pune	TPC/1242/2021/039/12-01-2022
34	WAGHMARE NISHA RAVINDRA	516545201711242100 41	SysTech Solutions Pune	TPC/1242/2021/041/29-09-2021
35	KSHIRSAGAR HARSHADA PRAMOD	516545201711242100 45	Capgemini Mumbai	TPC/1242/2021/045/11-01-2021
36	VANJOLE SAMIKSHA SUNIL	=5165452018112421 0001""	Cognizant	TPC/1242/2021/001/19-11-2021
37	BHOSALE SHRUTI SANJAY	=5165452018112421 0002""	Infosysis Limited Pune	TPC/1242/2021/002/16-12-2021
38	JANGAM DIGVIJAY DATTATRAY	=5165452018112421 0003""	Tata Communication Transformation Services Ltd, Pune	TPC/1242/2021/003/02-09-2021
39	CHAVAN ANKITA SANJAY	=5165452018112421 0005""	Tata Consultancy Service Limited	TPC/1242/2021/005/05-12-2021
40	SUTAR PRATIKSHA BALAVANT	=5165452018112421 0007""	Tata Consultancy Service Limited	TPC/1242/2021/007/19-11-2021

41	GHORPADE NIKITA CHANDRAKANT	=5165452018112421 0009""	Atos Group of Company Pune	TPC/1242/2021/009/0 7-01-2021
42	SHINGATE PRATIKSHA SUNIL	=5165452018112421 0010""	Inuxu Digital Media Technologies Pvt ltd Pune	TPC/1242/2021/010/1 5-11-2021
43	SHINDE MAYURI BHAGWAN	=5165452018112421 0011""	Fibit Infotech Pvt Ltd, Pune	TPC/1242/2021/011/2 8-09-2021
44	KANASE SALONI JITENDRA	=5165452018112421 0012""	Atos Group of Company Pune	TPC/1242/2021/012/0 7-11-2021
45	SHINGATE SHRADDHA SANTOSH	=5165452018112421 0013""	Cognizant	TPC/1242/2021/013/1 9-11-2021
46	KADAM NIKITA SHANKAR	=5165452018112421 0014""	Exint Solutions, Pune	TPC/1242/2021/014/2 5-01-2021
47	PATEL SAISTA ALLAUDDIN	=5165452018112421 0015""	Cognizant	TPC/1242/2021/015/2 6-08-2021
48	GORE POONAM VISHWAS	=5165452018112421 0016""	Nihilent Limited Pune	TPC/1242/2021/016/1 6-12-2021
49	MANE HARSHADA HANMANT	=5165452018112421 0017""	Cognizant	TPC/1242/2021/017/2 7-08-2021
50	PAWAR ARCHANA BAJIRAO	=5165452018112421 0018""	Infostretch Corporation Pvt Ltd, Pune	TPC/1242/2021/018/2 0-08-2021
51	NALAWADE SUPRIYA ASHOK	=5165452018112421 0019""	HCL Technologies Ltd	TPC/1242/2021/019/2 5-09-2021
52	GAVADE PRAVIN PRAKASH	=5165452018112421 0020""	Tech Mahindra	TPC/1242/2021/020/2 0-10-2021
53	PATIL SHRUTI SOMNATH	=5165452018112421 0021""	Cognizant	TPC/1242/2021/021/2 6-08-2021
54	GUJAR NAMRATA DATTATRAY	=5165452018112421 0022""	Wipro	TPC/1242/2021/022/2 1-08-2021
55	DHABUGADE AARTI ANIL	=5165452018112421 0023""	Tech Mahindra	TPC/1242/2021/023/2 0-10-2021
56	PATIL KARISHMA DATTATRAY	=5165452018112421 0024""	Mphasis Ltd	TPC/1242/2021/024/0 2-02-2021
57	KHARAT AKASH AJIT	=5165452018112421 0025""	Ksolves India Ltd	TPC/1242/2021/025/1 4-08-2021
58	JAGTAP SWATI SUDHIR	51654520171124210 034	3 Star IT Solution	TPC/1242/2021/034
59	LAVANGHARE SHIVANI RAJENDRA	51654520181124210 006	3 Star IT Solution	TPC/1242/2021/036
60	MANDHARE KIRTI BHARAT	51654520171124210 012	3 Star IT Solution	TPC/1242/2021/012
61	RAUT POURNIMA YUVRAJ	51654520171124210 043	3 Star IT Solution	TPC/1242/2021/043
62	KADAM MANASI RAJENDRA	51654520181124210 008	Cas exim and Business services,Satara	TPC/1242/2021/008
63	SONMALE TUSHAR	51654520181124210	Cas exim and Business	TPC/1242/2021/078

	NAMDEO	078	services,Satara	
64	KIRVE RAVINA DIPAK	51654520171124210042	Cas exim and Business services,Satara	TPC/1242/2021/042

Computer Science and Engineering (2019-20)				
S.no.	**Name of the student placed**	**Enrollment no.**	**Name of the Employer**	**Appointment letter reference no. with date**
1	CHAVAN ANKITA RAMESH	2016102888	iSoft Software Solution ,Satara	TPC/1242/2020/888/1-10-2020
2	KUDALE KOMAL JITENDRA	2016102890	iSoft Software Solution ,Satara	TPC/1242/2020/890/1-10-2020
3	LAMJE RAHUL MAHADEV	2016102883	USAS Solution, Satara	TPC/1242/2020/158/24-08-2020
4	SHINDE POOJA NANDKUMAR	2016102885	Inventive Infotech, Satara	TPC/1242/2020/885/15-02-2021
5	SUTAR SAYALI VASANT	2016102891	Inventive Infotech, Satara	TPC/1242/2020/891/15-12-2020
6	JADHAV KOMAL SHIVAJI	2017106184	eInnovation, Pune	TPC/1242/2020/184/20-02-2020
7	GHADAGE SUPRIYA SANJAY	2017106153	Bridgetree, Pune	TPC/1242/2020/153/23-02-2021
8	MANE SHRADDHA SAYAJI	2017106166	Crescente Pvt Ltd, Pune	TPC/1242/2020/166/24-07-2020
9	MANKAR SNEHA MOHAN	2017106181	APSTER TECHNOLOGIES,Tasgaon	TPC/1242/2020/181/6-01-2021
10	KHOT HARSHA BHASKAR	2017106183	DXC Technologies, Pune	TPC/1242/2020/183/24-07-2020
11	KAZI NADIM AMUL	2017106158	USAS Solution, Satara	TPC/1242/2020/158/24-08-2020
12	SHINDE SHRADDHA DATTATRAY	2017106175	Mechatronic Systems Pvt Ltd, Pune	TPC/1242/2020/175/12-02-2021
13	ITHAPE POOJA BHANUDAS	2017106167	Cas exim and Business services,Satara	TPC/1242/2020/167/1-12-2020
14	MANE AISHWARYA SATISH	2017106170	Crescente Pvt Ltd, Pune	TPC/1242/2020/170/25-02-2020
15	ZANJURNE KOMAL VIJAY	2017106154	MD India, Pune	TPC/1242/2020/154/01-10-2021
16	JADHAV SHIVANI PRAKASH	2017106176	AB Software Solutions, Satara	TPC/1242/2020/176/05-02-2021
17	ZANJURNE POOJA SANJAY	2017106177	3 Star IT Solution	TPC/1242/2020/177/25-10-2020
18	SHINDE APEKSHA DATTATRAY	2017106185	Crescente Pvt Ltd, Pune	TPC/1242/2020/185/25-02-2020
19	KUDALE AKSHADA	2017106180	C-DAC PG Diploma in	TPC/1242/2020/180/1

	VINAYAK		Advanced Computing	6-4-2022
20	PATANGE AMRUT MANOJ	2017106178	Crescente Pvt Ltd, Pune	TPC/1242/2020/178/25-02-2020
21	GUJAR SUPRIYA CHANDRAKANT	2017106165	Support Technology	TPC/1242/2020/165/01-02-2021
22	HINGANE SEEMA PRALHAD	2017106162	Cas exim and Business services,Satara	TPC/1242/2020/162/25-11-2020
23	BEBALE POONAM RAMESH	2017106168	Cas exim and Business services,Satara	TPC/1242/2020/168/25-11-2020
24	SHINDE SNEHAL ARJUN	2017106174	iSoft Software Solution ,Satara	TPC/1242/2020/174/1-10-2020
25	ZANJURNE DIPTI SHRIMANT	2017106179	3 Star IT Solution	TPC/1242/2020/157/25-10-2020
26	JADHAV RANI BHIKAJI	2017106157	REFLEXIS Systems India Private Ltd pune	TPC/1242/2020/157/31-10-2020
27	NALAWADE ASHISH ASHOK	2017106163	C-DAC PG Diploma in Advanced Computing	TPC/1242/2020/182/16-4-2022
28	MULANI AMAN SIKANDER	2017106182	Crescente Pvt Ltd, Pune	TPC/1242/2020/182/25-02-2020

4.6 Professional Activities (20)
4.6.1 Professional societies/chapters and organizing engineering events (05)

Professional Society Chapter 2022-2023

Sr.No	NAME OF CHAPTER	MEMBERSHIP NAME	NO./YEAR	MEMBERSHIP DURATION
1	THE INDIAN SOCIETY FOR TECHENICAL EDUCATION (ISTE)	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	MH-313/2023	LIFE TIME

YEAR 2022-23				
Sr. No.	**Name of Activity**	**Date**	**Resource Person**	**Type of activity (Guest Lecture/Quiz/Project Competition**
1	Industrial Visit	12-10-2022	ACME INFOVISION SYSTEMS Pvt. Ltd	Industrial Tour
2	Expert Lecture Series on Core Java Programing	14-11-2022 To 13-12-2023	Mr. Sanket Jambhure	Workshop
3	University Level Project Competition-Aavishkar	18-11-2022	Mr. S.V Khobragade	University Level Project Competition
4	Guest lecture on Management Studies	14-12-2022	Dr. Pranjali Ankule	Guest lecture
5	Industrial Tour	17-12-2022	IIT Bombay	Industrial Tour
6	Alumni Guest Lecture on	22-12-2022	Mr. Swaroop Dongare	Guest lecture

	Interview Techniques			
7	Skill Based Training Program	6-01-2023	Symboisis Skills and Professional University (SSPU)	Guest lecture
8	Corporate Grooming	21-02-2023 to 23-02-2023	Mr. George	Workshop
9	Alumni Guest Lecture on Recent Technologies in IT	21-02-2023	Mr. Harshad Prashant Shinde & Mr. Kunal Sandeep Jirage	Guest lecture
10	Alumni Guest Lecture on Project based learning	22-02-2023	Ms. Swarupa Ghorpade	Guest lecture
11	Alumni Guest Lecture on	23-02-2023	Ms. Aarti Vilas Katkar	Guest lecture
12	Industrial visit	03-03-2023	Nebula Technologies Pune	Industrial Tour
13	IT Career in digital marketing (AJDM)	10-03-2023	Mr. Ajinkya Pawar (AJDM, India)	Guest lecture
14	Guidance for GRE TOEFL	30/03/2023	Mr. Amol Kawade	Guest lecture
15	Guest lecture on Full stack Development	31-03-2023	Sanket Gharge do IT Infosystems	Guest lecture
16	Guest lecture on Opportunities in IT Industry & Japan	3-05-2023	Mr.Bipin Kadam	Guest lecture
17	Guest lecture on software Testing	05-05-2023	Mr.Suraj Sawant & Mr. Omkar Mali	Guest lecture

18	Guest Lecture on Data & Analytics for IoT	19-05-2023	Mrs. Suruchi Degaonkar	Guest lecture
19	Guest lecture on Recent Trends and opportunities in IT	19-05-2023	Mr. Shivraj Gaikwad (Rapportsoft Consulting Pune)	Guest lecture
20	Guest Lecture on IoT Physical devices Arduino & Raspberry Pi	22-05-2023	Dr. Ratnmala Bhimanpallewar	Guest lecture
21	International Conference	9-06-2023 to 10-06-2023	Dr. Zehila Selamoglu	International Conference
22	Five Days workshop on web designing and development	14-06-2023 to 19-06-2023	Mr. Nikhil Kambale Code Culture Pune	Workshop
23	C, C++ on Turbo C and HTML	01/08/2023 to 14/08/2023	Mr. Swapnil Mapari Disha Computers, Satara	Workshop
24	C, C++ and Advance Java	07/08/2023 to 11/08/2023	Mr. Nilesh Sonawane Design Solution, Karad	Workshop
25	C, C++ and Python	07/08/2023 To 18/08/2023	Mrs. Pranali Nalawade Squirrel's Infotech, Satara	Workshop

YEAR 2021-22				
Sr. No.	**Name of Activity**	**Date**	**Resource Person**	**Type of activity (Guest Lecture/Quiz/Project Competition/workshop**
1	One day python programming workshop	28-11-2021	Miss. Snehal Kesukade	workshop
2	Effective Use of ICT Tools (MOODLE), NPTEL COURSERA Certification	9-12-2021	Ms. S.Y. Mulla	Lecture
3	One day Network security workshop	16-12-2021	Mr.Prashant Patil	workshop
4	Hands on data analytics using Tableau workshop	27-12-2021	MsPimpalkar Shilpa	workshop
5	Expert lecture on Software Engineering	27-01-2022	Prof.Bhagyashree Manish Dhakulkar	Guest Lecture
6	Expert lecture on Business Intelligence	29-01-2022	Mr. Suyog Sambhaji Patil	Guest Lecture
7	Expert lecture on Compute Graphics	31-01-2022	Mr.Dilip Kumar Jang Bahadur Saini	Guest Lecture
8	Expert lecture on Machine learning	27-01-2022	Prof. Rahesha Naushad Shaikh	Guest Lecture
9	Expert lecture on Theory of Computation	28-01-2022	Prof.Amruta Subhashrao Dhole	Guest Lecture
10	Expert lecture on Database Systems	29-01-2022	Mr.Avinash .Pandurang Godase	Guest Lecture
11	Expert lecture on Business Communication	01-02-2022	Dr.Bindu Ajay Arora	Guest Lecture
12	Expert lecture on Introduction to Research	31-01-2022	Dr.Pallavi Pandurang Ingale	Guest Lecture
13	Expert lecture on OOP with C++	27-01-2022	Dr.Priyka Makarand Shelke	Guest Lecture
14	Expert lecture on Computer Architecture and Organization	29-01-2022	Mr. Swapnil KisanShinde	Guest Lecture

15	Expert lecture on Discrete Mathematics	31-01-2022	Prof.Sneha Pradip Wanjari	Guest Lecture
16	Expert lecture on Data Structure	29-01-2022	Dr Kirti Vanjale	Guest Lecture
17	Expert lecture on Engineering Mathematics	31-02-2022	Mr Amol Kangale	Guest Lecture
18	Expert lecture on Big Data Analytics	01-02-2022	Dr.SaritaVitthalBalshetwar	Guest Lecture
19	Expert lecture on Full Stack Development	2-02-2022	Mr.Nikhil Rajaram Korade	Guest Lecture
20	Internal Hackthon of Smart India Hackthon 2022	28-04-2022 to 29-04-2022	Dr Mirajkar Gayatri	Project Competition
21	English Speaking Session	1-05-2022 to 30-06-2022	Mr. Kale Abhay .A. (A.G.C.E., Satara)	Regular session
22	Campus To Corporate Activity	1-05-2022 to 30-06-2022	Ms. BhilareNikita.S. Mr. Kale Abhay .A	Regular session
23	German Language Training Program for promoting Students for M.S. opportunities in Germany.	1-03-2022 to 30-06-2022	Mrs. Sunita Shaligram (Trainer Chinmay Educational Consultancy, Pune	Regular session
24	Brand Yourself	17-05-2022 to 19-05-2022	Mr. George	workshop
25	Yuva360 degree Internship	14-06-2022	Mrs Rachana Patil	workshop
26	Expert lecture on data analytics in IOT	5-08-2022	Mr Saini D.J.	Guest Lecture

YEAR 2020-21				
Sr No.	**Name of Activity**	**Date**	**Resource Person**	**Type of activity(Guest Lecture/Quiz/Project Competition**
1	Online Guest lecture on IOT	20-03-2021	Mr. Vivek Mohite,Genesis Tech Pvt Ltd, Pune	Online Guest Lecture
2	Online Guest lecture on Software Online Development	21-01-2021	Ms. Aishwarya Mane,Matrix Education Pune,	Online Guest Lecture
3	Online Guest lecture on OOP concepts and interview techniques	03-04-2021	Mr Bhosale Suraj	Online Guest Lecture
4	Online Guest lecture on Project Domains	27-03-2021	Mr Desai Akshay	Online Guest Lecture
5	Online Alumni guest lecture on Automation Testing	28-11-2020	Mr. Aniket Mendgule	Online Alumni Guest Lecture
6	Prepare yourself for Abroad opportunities (M.S./ M.B.A) by	26-11-2020	Mr. Shekhar Bidwai, Director Chinmay Educational Consultancy, Pune	Online Guest Lecture
7	How to Crack Gate Examination	5-12-2020	Mr.Sumit Acharya (Gate Academy Pune)	Online Guest Lecture
8	Online Alumni guest lecture on Java Framework	26-12-2020	Mr. Satish Udgave	Online Alumni Guest Lecture
9	Online Alumni guest lecture on Web Development	23-01-2021	Mr. Rohit Bhole	Online Alumni Guest Lecture
10	Online Alumni guest lecture on E-commerce SAP Hybris	20-02-2021	Ms. Poonam Bankar	Online Alumni Guest Lecture

11	Online Alumni guest lecture on IT industry Overview, Automation Testing	27-03-2021	Ms. Yojana Gaikwad	Online Alumni Guest Lecture
12	Online Alumni guest lecture on Software Development Cycle	24-04-2021	Ms.PriyankaBalaso Shinde	Online Alumni Guest Lecture
13	Career in Software Testing, Prerequisites and Opportunities	09-05-2021	Mr. Sushant Sankpal	Online Alumni Guest Lecture
14	Online webinar on Intellectual property right	28-05-2021	Dr B.K Sarkar	Online Guest Lecture
15	Prayog 2021	9-04-2021	Arvind Gavali College of Engineering	Online state Level Project Exhibition

YEAR 2019-20				
Sr. No.	**Name of Activity**	**Date**	**Resource Person**	**Type of activity(Guest Lecture/Quiz/Project Competition**
1	Guest Lecture on Introduction to Career Opportunities in System Networking	11-09-2019	Ajit Sutar	Guest Lecture
2	NPTEL One Day R Programming Workshop	09-11-2019	Dr Bhosale Varsha	Workshop
3	Avishkar Poster Competition	9-11-2019	Mr S.V.Khobhargade	Project Competition
4	Guest Lecture on MNC	10-02-2020	C.Jorge	Guest Lecture
5	NPTEL One Day Workshop on C and C++	29-02-2020	Mrs Mandhare R.M.	Workshop
6	Resume Building and Interview Technique workshop	23-03-2020	Mr Naren Juvekar	Workshop
7	Guest Lecture on CyberCrime	24-07-2020	Ruksha Dalvi	Guest Lecture

8	Yugam – Four Week Training Program on Web Design	29-7-2020 to 4-8-2020	1) Mr. Nikhil Korade (SplendorNet Technologies, Pune) 2) Ms. Ashwini Padwal (JA Solutions) 3) Mr. Shailesh Wagle (KPIT Hinjewadi) 4) Mr. Danish Shaikh (PHP & Java Programmer) 5) Prof Mr Chavan Suhas(Asst Professor, Sinhgad College Pune.) 6) Mr. Roakhande S.A. (Hefshine Pvt Ltd.) 7) Mr. Vikas Pomane (CEO, Utriva Pvt Ltd.)	Online Training Program

9	Yugam – Four Week Training Program on Internet of Things	29-7-2020 to 4-8-2020	1) Kirti Wanjale (VIIT,Pune) 2) Mrs.Varsha Patil (Lembhe) (JSPM, Hadapsar) 3) Mr.Pravin P. Mote (TATA Communicatios, Pune) 4) Mr. Ashish Kalambe (Modelcam Technologies Pvt. Ltd, Pune) 5) Mr. Nilesh Bhandare (Sloki Technologies Plt Ltd, Bangalore) 6) Mr. Akshay Jadhav (Space Automation, Pune) 7) Mr.Niraj Kapase (DKTE, Ichalkaranji) 8) Mr. Vaibhav V. Nalawade (Institute of Computer Science, Satara) 9) Mr. Pravin Koregave (Infinite Uptime India Pvt Ltd., Pune)	Online Training Program

10	Yugam – Four Week Training Program on Artificial Intelligence	29-7-2020 to 4-8-2020	1) Dr Pawar A.B (Sanjivani College of Engineering, Kopargaon) 2) Ms Pagar Yogita S. (PES,College of Engineering Aurangabad) 3) Mrs Balshetwar S.V. (Government College of Engineering,Karad) 4) Dr Shelake Priya M. (VIIT, Kondhawa Pune) 5) Dr.Sarita Panwar (AISSMS COE ,Pune) 6) Mr DhamalTushar .B. (Tata Technology Pune) 7) Ms Shilpa Pimpalkar (AISSMS COE ,Pune) 8) Mr RajgudeDattatraya (CyabageTechnology,Pune) 9) Mr Gaikwad Vinod (Morning Star,Pune) 10) Mr Tiwari (Cognifront Technology Nashik) 11) Mr. Jagdish Kolhe (Cognifront Technology Nashik)	Online Training Program

11	Aptitude Sessions (40 Sessions)	1-09-2019 to 13-03-2020	Prof Patil S,P Prof Pawar S.D. Prof Kasture A.D.	Inhouse aptitude traning
12	Personality Development Program by Rubicon Skill Development Pvt Ltd	19-09-2019 to 12-09-2019	Mr. Amar Shinde, Mr. Satya S.	Workshop
13	Workshop on Introduction to Arduno and Basic Electronics	9-09-2019 to 14-09-2019	Mr. Vishwajit Kulkarni, AGCE, Satara	Workshop
14	Attitude Building for professional Excellence	23-09-2020	Prof. Pramod Bhadakawade (Symbiosis International University Pune)	Online Guest Lecture
15	Development of Communication Skills	24-09-2020	Prof. Pramod Dastoorkar (Professor, MIT Academy of Engineering, Pune)	Online Guest Lecture
16	Career opportunities after B. Tech.	5-09-2020	Prof. Dr. Avinash V. Waghmare(All India Shree Shivaji Memorial Society, College of Engineering, Pune)	Online Guest Lecture
17	Career opportunities in Banking Sectors	11-09-1020	Mr. Vijay Adsul (Head-Training - IDBI, Rural Self Employment Training Institute, Satara	Online Guest Lecture
18	Civil Services as a Career choice	5-09-2020	Mr. Rakesh Desai (Ex-IAS & Director	Online Guest Lecture
19	Yoga for Physical and Mental Health	1-12-2020	Mr. Chandrkant Deoda (Sahaj Yoga Foundation, Pune)	Online Guest Lecture

20	7 habits of highly effective people	9-12-2020	Dr. N S Shinde (Professor, Symbiosis Skills and Open University. Pune)	Online Guest Lecture
21	Orientation Program on Promotion and Facilitation of Entrepreneurship among the students of AICTE affiliated institutes on	1-02-2020 to 02-02-2020	Rohit Bhole Sanket Ravate	Workshop
22	One Day Workshop on Entrepreneurship Development	8-02-2020	Under lead college	Workshop
23	Higher Education Opportunities in Abroad	9-02-2020	Mr. Nik Kowels EU Business School, Germany (In association with CEC, Pune	Guest Lecture
24	Orientation Program on GATE by ACE Academy	19-09-2019	Mr Abhay ChaugulеACE Academy	Guest Lecture

YEAR 2018-19				
Sr. No.	**Name of Activity**	**Date**	**Resource Person**	**Type of activity(Guest Lecture/Quiz/Project Competition**
1	Two days' workshop onNode.js	17-02-2018 to 19-02-2018	Mr. Nikhil Kamble. Software Development BRIOT Technology ,pune.	workshop
2	One day workshop computer hardware and hands on practice of operating system installation	01-10-2018	Mr. Amar Adake.	workshop
3	Soft skill developmen t	11-03-2019 to 13-03-2019	Eka Training Solution, Mumbai.	Miss. Sylviya Johnson Mr. Pulkit Singh
4	Guest lecture on human values	07-01-2019	Ms. Medhashree (YIN, Sakal) And AGCE Satara	Guest lecture
5	Develop Personality and Inner Skills	28/1/2018	Mr.Rajesh Chavan (Founder) Mr.Jeevan Sanjivani H.R.D	Guest lecture
6	IT Career in Digital Marketing and Professional Groumi	08-01-2018	Mr. Ajinkya Pawar. CEO& Director of AJDM INDIA.	Guest lecture

7	Tata Cummins scholarship Training Program	14-08-2018	Mr. Siddharth Kesari Tata Cummins Phaltan	Training program
8	C-WAR(C Programming Competition)	15-08-2018	Arvind Gavali College of Engineering	C Programming Competition

4.6.2 Publication of technical magazines, newsletters, etc. (05)

Sr No	Name of News letter	Year	Name of Editor	Publisher	Type
1	Wizard	2022-2023	Mrs. Sawant Ashwini Prakash	Department of Computer Science and Engineering	YEARLY
2	Wizard	2021-2022	Mrs. Sawant Ashwini Prakash	Department of Computer Science and Engineering	YEARLY
3	Wizard	2020-21	Mrs. Sawant Ashwini Prakash	Department of Computer Science and Engineering	YEARLY
4	Wizard	2019-18	Mrs. Sawant Ashwini Prakash	Department of Computer Science and Engineering	YEARLY
5	Wizard	2018-19	Mrs. Sawant Ashwini Prakash	Department of Computer Science and Engineering	YEARLY

4.6.3 Participation in inter-institute events by students of the program of study (10)

YEAR 2022-23

Co-curricular activities

SR NO	NAME OF STUDENT	RANK	NAME OF THE EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT
1	SRUSHTI JANARDAN MORE	SPECIAL PRIZED AWARD	KJSIT-IET-INTECH-2K23 POSTER CUM PROJECT COMPETITION	STATE	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
2	SHUBHADA HANMANT SHINGATE	SPECIAL PRIZED AWARD	KJSIT-IET-INTECH-2K24	STATE	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
3	SHRIDHAR PRAKASH AWARE	3RD POSITION WINNER	ROTRAX 2023	STATE	ROTARY CLUB OF SATARA	17/04/2023
4	SHRIDHAR PRAKASH AWARE	WINNER	DIGIT-2K23	STATE	KARMAVEER BHAURAO PATIL INSTITUTE OF MANAGEMENT AND RESEARCH	18/03/2023
5	SHRIDHAR PRAKASH AWARE	3RD POSITION WINNER	YASHO-TECH-FEST- 2022	NATIONAL	YASHODA TECHNICAL CAMPUS SATARA	11/4/2023
6	PAWAN RAVIKUMAR RAO	3RD POSITION WINNER	ROTRAX 2023	STATE	ROTARY CLUB OF SATARA	17/04/2023
7	PAWAN RAVIKUMAR RAO	3RD POSITION WINNER	SPECTRUM 2K23	STATE	SHIVAJI UNIVERSITY KOLHAPUR	21/03/2023
8	MR. PRATIK VIJAY SAWANT	3RD POSITION WINNER	SPECTRUM 2K23	STATE	SHIVAJI UNIVERSITY KOLHAPUR	21/03/2023

9	MR. PRATIK VIJAY SAWANT	1ST RANK PPT PRESENTATION	TECH-FEST 2K24	STATE	KISANVEER MAHAVIDYALAY WAI	6/5/2023
10	MR. PRATIK VIJAY SAWANT	2ND POSITION WINNER	YASHOTECHFEST 2K23	STATE	YASHODA TECHNICAL CAMPUS SATARA	11/4/2023
11	VIRAJ SUNIL JADHAV	PARTICIPATION	PHN ADVANCED TECHNOLOGY ONLINE WORKSHOP ON ANDROID DEVELOPMENT	WORKSHOP	PHN TECHNOLOGY PVT. LTD.	18/03/2023- 19-03-2023
12	VIRAJ SUNIL JADHAV	PARTICIPATION	TECHNOVATION-2023	STATE	SYMBIOSIS INSTITUTE OF TECHNOLOGY PUNE	1/4/2023
13	VIRAJ SUNIL JADHAV	PARTICIPATION	JAVA TRAINING	INTERNSHIP	BESANT TECHNOLOGIES	24/04/2023
14	VIRAJ SUNIL JADHAV	PARTICIPATION	INTERNSHIP IN FRONT END DEVELOPMENT	INTERNSHIP	EDUNET FOUNDATION	23/01/2023-1/06/2023
15	VAISHNAVI SATISH MAHMULKAR	PARTICIPATION	KJSIT-IET-INTECH-2K23 POSTER CUM PROJECT COMPETITION	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
16	TEJAL ASHOK PISAL	PARTICIPATION	KJSIT-IET-INTECH-2K23 POSTER CUM PROJECT COMPETITION	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
17	SRUSHTI JANARDAN MORE	PARTICIPATION	BRAIN-IT-ON 1.0	NATIONAL	INSTITUTIONS INNOVATION COUNCIL	21/03/2023
18	SIDDHESH SAMPAT PAWAR	PARTICIPATION	YASHOTECHFEST 2K23	NATIONAL	YASHODA TECHNICAL CAMPUS SATARA	11/4/2023

19	SIDDHESH SAMPAT PAWAR	PARTICIPATION	PHN ADVANCED TECHNOLOGY WORKSHOP ON ANDROID DEVELOPMENT	WORKSHOP	PHN TECHNOLOGY PVT. LTD.	18/03/2023- 19-03-2023
20	SIDDHESH SAMPAT PAWAR	PARTICIPATION	INTERNSHIP IN FRONT END DEVELOPMENT	INTERNSHIP	EDUNET FOUNDATION	23/01/2023-1/06/2023
21	SIDDHESH SAMPAT PAWAR	PARTICIPATION	JAVA TRAINING	INTERNSHIP	BESANT TECHNOLOGIES	24/04/2023
22	SHUBHADA HANMANT SHINGATE	PARTICIPATION	BRAIN-IT-ON 1.0	NATIONAL	INSTITUTIONS INNOVATION COUNCIL	21/03/2023
23	SAYALI KANTILAL BOBADE	PARTICIPATION	MATPO APTITUDE IDOL-2023	NATIONAL	MAHA. ASSOCIATION OF TRAINING AND PLACEMENT OFFICERS(MATPO)	11/3/2023
24	RAHULKUMAR VARMA	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
25	SANKET HANMANT THORAT	PARTICIPATION	PYTHON FOR DATA SCIENCE, AI & DEVELOPMENT	STATE	IBM	2/5/2023
26	SANKET HANMANT THORAT	PARTICIPATION	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS SATARA	11/4/2023
27	SAKSHI CHANDRASHEKHAR SHINDE	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
28	SAKSHI CHINCHKAR	PARTICIPATION	TECHNOVATION-2023	STATE	SYMBIOSIS INSTITUTE OF TECHNOLOGY PUNE	1/4/2023
29	SAKSHI BHALEGHARE	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023

30	PRANALI PRAVIN NAWASARE	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
31	PAWAN RAVIKUMAR RAO	PARTICIPATION	YASHOTECHFEST 2K23	STATE	YASHODA TECHNICAL CAMPUS SATARA	11/4/2023
32	PAWAN RAVIKUMAR RAO	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
33	PAWAN RAVIKUMAR RAO	PARTICIPATION	DIGIT-2K23	STATE	KARMAVEER BHAURAO PATIL INSTITUTE OF MANAGEMENT AND RESEARCH	18/03/2023
34	PAWAN RAVIKUMAR RAO	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
35	NIKITA MAGADEV SAKUNDE	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
36	MRUNAL MANSING BHOPE	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
37	DIPALI G. LAKERI	PARTICIPATION	YASHOTECHFEST 2K23	STATE	YASHODA TECHNICAL CAMPUS SATARA	11/4/2023
38	DIPALI G. LAKERI	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
39	DHANASHRI BHARAT CHAVAN	INTERNSHIP	INTERNSHIP IN EMERGING TECHNOLOGIES	INTERNSHIP	EDUNET FOUNDATION	16/01/2023
40	DHANASHRI BHARAT CHAVAN	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023

41	DHANASHRI BHARAT CHAVAN	PARTICIPATION	PHN ADVANCED TECHNOLOGY WORKSHOP ON ANDROID DEVELOPMENT		PHN TECHNOLOGY PVT. LTD.	18/03/2023
42	DHANASHRI BHARAT CHAVAN	PARTICIPATION	YASHOTECHFEST 2K23	NATIONAL	YASHODA TECHNICAL CAMPUS SATARA	11/4/2023
43	CHANDANI SHABBIR INAMDAR	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
44	ANJUM SHAIKH	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
45	ANJALI SANTOSH SHINGATE	PARTICIPATION	BRAIN-IT-ON 1.0	NATIONAL	INSTITUTIONS INNOVATION COUNCIL	21/03/2023
46	ANJALI SANTOSH SHINGATE	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
47	AMISHA SAYYAD	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
48	ARTI RAJENDRA JADHAV	PARTICIPATION	TECH-FEST 2K23	STATE	KISANVEER MAHAVIDYALAY WAI	6/4/2023
49	SHRUTI URANKAR	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
50	SANSKRUTI WAGH	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
51	ANKITA SAWANT	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
52	BHAKTI MALUSARE	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
53	AQSA CHOTUMIYA NALBAND	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023

54	PRIYANKA PATIL	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
55	PRIYANKA PATIL	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
56	AMRUTA VYANKAT CHAVAN	PARTICIPATION	KJSIT-IET-INTECH-2K23	NATIONAL	K J SOMAIYA INSTITUTE OF TECHNOLOGY, SION MUMBAI	25/03/2023
57	AMRUTA VYANKAT CHAVAN	PARTICIPATION	TECHNICAL PROJECT COMPETITION	NATIONAL	AGCE SATARA	16/04/2023
58	MR. PRATIK VIJAY SAWANT	PARTICIPATION	TECHNOVATION-2023	STATE	SYMBIOSIS INSTITUTE OF TECHNOLOGY PUNE	1/4/2023
59	MR. PRATIK VIJAY SAWANT	PARTICIPATION	TECH-FEST 2K23	STATE	KISANVEER MAHAVIDYALAY WAI	6/4/2023
60	MR. PRATIK VIJAY SAWANT	PARTICIPATION	KURUKSHETRA 2K23	STATE	COLLEGE OF ENGINEERING PHALTAN	24/02/2023
61	MR. ABHIJEET PAWASHE	PARTICIPATION	THE FUNDAMENTAL OF DIGITAL MARKETING	ONLINE	GOOGLE OF DIGITAL MARKETING	22/03/2023
62	MR. SHUBHAM GHADAGE	PARTICIPATION	SPECTRUM 2K23	STATE	SHIVAJI UNIVERSITY KOLHAPUR	21/03/2023
63	MR. RUSHIKESH KATKAR	PARTICIPATION	KURUKSHETRA 2K23	STATE	COLLEGE OF ENGINEERING PHALTAN	24/02/2023
64	DESHMUKH RUTUJA RAJENDRA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
65	BHOSALE AMRUTA PRADIP	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
66	BHOSALE PRIYANKA CHANDRAKANT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

67	NAGANE ROHAN RAJENDRA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
68	WAGH PRAJWAL TULSHIDAS	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
69	RUTUJA RAVIKANT JADHAV	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
70	GOLE ADESH YUVRAJ	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
71	PHADATARE VAISHNAVI GORAKH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
72	MULIK RUPALI MANOHAR	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
73	SHRUTIKA VAIBHAV BHOSALE	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
74	YADAV SHIVLAL ARUN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
75	LAD VINITA VISHNU	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
76	MOHITE PANDURANG VIJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
77	BHOSALE MADHURI SAMBHAJI	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
78	YADAV BHAGYASHRI SUNIL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

79	GHUTUKADE TRUPTI DADASO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
80	GONJARI DIPALI ABA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
81	HABLE RUTUJA SARJERAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
82	KADAM PRADNYA BHAGWAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
83	VARMA RAHULKUMAR RAJENDRAPRASAD	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
84	JAMBURE SANKET SUNIL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
85	LOHAR TUSHAR SARJERAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
86	WAGHMODE HARSHAL BHIMRAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
87	SAWANT PRAJWAL HEMANT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
88	KADAM AKANKSHA GAJANAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
89	CHAVAN AMRUTA VYANKAT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

90	SURVE SWARAJ BIPINCHANDRA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
91	TARADE SHRADHA AMOL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
92	CHAVAN SAYALI VIJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
93	NIKAM PRASANNA DATTATRAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
94	JADHAV SAPANA HANMANT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
95	CHAVAN PRITI SANTOSH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
96	BAGAL UTKARSHA VIJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
97	GURAV VEDANTIKA HANMANT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
98	JAMBHALE SHIVANI SUNIL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
99	DEVKAR RASHMI SADASHIV	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
100	PALLAVI BHARAT GUJARE	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
101	DIVYA ANANDA YADAV	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

102	SUKANYA SUNIL PANDEKAR	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
103	SAKSHI DURYODHAN PAWAR	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
104	GAIKWAD PRIYANKA SANDIP	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
105	NIKAM SUYOG VIJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
106	KISHORI DHANAJI RAJMANE	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
107	TEJASWINI SANTOSH PAWAR	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
108	DESHMUKH HARSHAL SUBHASH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
109	RUTWIK SAYAJIRAO PATIL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
110	KADAM AISHWARYA PRAKASH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
111	BARGE AMOL PRAKASH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
112	AUGHADE PRANAV HIMMAT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
113	KAMBLE SNEHAL SARJERAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

114	PAWAR SHIVANI RAMESH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
115	MAGAR MAYURI RAMESH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
116	KADAM PRATIKSHA JAGANNATH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
117	CHAVAN ANJALI SHIVAJI	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
118	SAYYAD HINA RAMJAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
119	PATIL PRIYANKA DHONDIRAM	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
120	DEVKAR MANALI ARVIND	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
121	MAHOOR PRAVINKUMAR CHANDRAKANT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
122	BHOJANE AKASH DATTATRAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
123	MOHITE VINANTI SHANTARAM	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
124	VIBHUTE MAYURI MOHAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

125	BALLAL KAJAL RAJENDRA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
126	JADHAV UTKARSHA MUKUND	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
127	SALUNKHE ANIKET LAXMAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
128	JANGID MUKESH BALDEVRAM	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
129	WAGHMARE VINAYAK JAYAWNT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

Extra Co-curricular activities

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Surve Swaraj Bipinchandra	Participation	MaharashraKesari Kitab 2022 65KG	State	Maharashtra State Wrestling Parishad	5-04-2022 to9-04-2022

2	Koli Utkarsh Rajendra	Winner	Volleyball	State	Arvind Gavali College of Engineering Satara	5th -8th April 2023
3	Suryvanshi Shubham Chandrakant	Winner	Volleyball	State	Arvind Gavali College of Engineering Satara	5th -8th April 2023
4	Sanket Himmat Thorat	Winner	Volleyball	State	Arvind Gavali College of Engineering Satara	5th -8th April 2023
5	Shelar Soham Atul	Winner	Volleyball	State	Arvind Gavali College of Engineering Satara	5th -8th April 2023
6	Viraj Sunil Jadhav	Winner	Volleyball	State	Arvind Gavali College of Engineering Satara	5th -8th April 2023
7	Nalawade Adesh Dipak	Winner	Volleyball	State	Arvind Gavali College of Engineering Satara	5th -8th April 2023
8	Desai Harshvardhan Suryakant	Winner	Volleyball	State	Arvind Gavali College of Engineering Satara	5th -8th April 2023
9	Prasad Ankush Sawant	Winner	Volleyball	State	Arvind Gavali College of Engineering Satara	5th -8th April 2023

YEAR 2021-22

Co-curricular activities

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Sawant Pratik Vijay	Runner up	Project Competition	National	Yashodha Technical Campus Satara	09/07/2022
2	Aware Shridhar Prakash	Runner up	Project Competition	National	Yashodha Technical Campus Satara	09/07/2022
3	Katkar Rushikesh Anil	Runner up	Project Competition	National	Yashodha Technical Campus Satara	09/07/2022
4	Waghmare Vinayak Jayawant	Participation	Project Competition	National	Bharati Vidypeeth College of Engineering Pune	21 May 2022
5	Kambale Snehal Sarjerao	Participation	Project Competition	National	Bharati Vidypeeth College of Engineering Pune	21 May 2022
6	Waghmare Vinayak Jayawant	Participation	Project Competition	National	Yashodha Technical Campus Satara	09 July 2022
7	Kambale SnehalSarjerao	Participation	Project Competition	National	Yashodha Technical Campus Satara	09 July 2022
8	Bhosale Priyanka Chandrakant	Participation	Project Competition	National	Bharati Vidypeeth College of Engineering Pune	21/05/2022

9	Bhosale Priyanka Chandrakant	Participation	Project Competition	National	KJ Somaiya Institute of Engineering and Information Technology Sion,Mumbai	16 -04-2022
10	Bhosale Priyanka Chandrakant	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
11	Lad Vinita Vishnu	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
12	Jambhale Shivani Sunil	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
13	Rajmane Kishori Dhanaji	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
14	Kadam Akanksha Gajanan	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
15	HableRutujaSarjerao	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022

16	TaradeShradha Amol	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
17	NalawadeAdesh Dipak	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
18	Thorat Sanket Himmat	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022to 29-04-2022
19	Koli Utkarsh Rajendra	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
20	Bobade Sayali Kantilal	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
21	Mane Pradnya Laxmikant	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
22	Gonjari Dipali Aba	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022to 29-04-2022

23	Waghmare Vinayak Jaywant	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
24	KharatParthav Santosh	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
25	Jadhav Shreya Ramdas	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
26	Lakire Dipali Gopal	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
27	Shaikh Anjum Rahiman	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2020 to 29-04-2022
28	Jadhav Aarti	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2020 to 29-04-2022
29	Sayyad Amisha	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022

30	Gholap Ankita	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
31	Inamdar Chandini	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
32	Patil Apurva	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
33	Gujare Pallavi	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
34	Devkar Rashmi	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
35	Jadhav Rutuja	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
36	Phadtare Vaishnavi	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022

37	GuravVedantika	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
38	Jadhav Utkarsha Mukund	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
39	Patil Priyanka Dhondiram	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
40	Devkar Manali	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
41	Kadam PradynaBhagwan	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
42	Pandekar Sukanya Sunil	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
43	Magar Mayuri Ramesh	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022

44	ShingateShubhadhaHanmant	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
45	Chavan Snehal Rajaram	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
46	Shinde Sakshi Chandrashekhar	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
47	GulumkarAnamika Dhananjay	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
48	Shingate Anjali Santosh	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
49	KatkarRushikesh Anil	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
50	Rao Pawan Ravikumar	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022

51	Aware Shridhar	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
52	Sawant Pratik Vijay	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
53	Ghadge Shubham Popat	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
54	UbheAsmita	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
55	Mulik Rupali Manohar	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
56	Bhosale Madhuri Sambhaji	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
57	Pawar Sakshi Duryodhan	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022

58	Chavan Amruta vyankat	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
59	Patil Rutwiksayajirao	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
60	Chavan Anjali shivaji	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
61	Pawar Tejaswini Santosh	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
62	MahoorPravinkumar Chandrakant	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
63	Mohite Pandurang Vijay	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
64	Nikiam Prasanna Dadtatray	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022

65	NikamSuyog Vijay	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
66	Sawant Prajwal Hemant	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
67	Lohar Tushar Sarjerao	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
68	Yadav Shivlal Arun	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
69	ShirkePrajkta	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022 to 29-04-2022
70	Gole Adesh Yuvraj	Participation	Internal Hackthon of Smart India Hackthon 2022	Institute	Arvind Gavali College of Engineering Satara	28-04-2022to 29-04-2022
71	Kadam Aishwarya Prakash	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gavali College of Engineering Satara	28-29 April 2022

72	Chavan Sayali	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gavali College of Engineering Satara	28-29 April 2022
73	Chavan Priti	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gavali College of Engineering Satara	28-29 April 2022
74	Deshmukh Harshal Subhash	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gavali College of Engineering Satara	28-29 April 2022
75	Kambale Snehal Sarjerao	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gavali College of Engineering Satara	28-29 April 2022
76	Deshmukh Rutuja	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gavali College of Engineering Satara	28-29 April 2022
80	Srushti More	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gavali College of Engineering Satara	28-29 April 2022
81	Soham Shelar	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gavali College of Engineering Satara	28-29 April 2022

NPTEL Certification

Sr. no	Roll Number	Course Id	Course Name	Name	Final Score	Certificate Type
1	NOC22CS47S 34170132	Noc22-cs47	Programming In Java	Srushti Janardhan More	69	Elite

Extra Co-curricular activities

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Surve Swaraj Bipinchandra	Particia ption	MaharashraKesa ri Kitab 2022 65KG	State	Maharashtra State Wrestling Parishad	5-04-2022 to9-04-2022
2	Surve Swaraj Bipinchandra	Winner	Wrestling -70k	Distict level	District Talimsangh	21-03-2022
3	Surve Swaraj Bipinchandra	Runner up	Wrestling -67k	Distict level	District Talimsangh	16-10-2021
4	Mohite Pandurang Vijay	Particip ation	Speech Completion	State level	SGM College Karad	30-03-2022
5	Bhosale Priyanka Chandrakant	Particia ption	Saviribhai Phule Jayanti Melava	Distict level	Saviribhai Phule Jayanti Samiti	3-01-2022

YEAR 2020-21 Co-curricular activities						
Sr No	**Name of Student**	**Rank**	**Name of the event**	**Level**	**Event organized Institute**	**Date of Event**
1	PATIL KARISHMA DAATATRAYA	Participation	Project Presentaton competition	Divisional and Dipex	Tantra shikshan Vidyarthi Karya,Kolapur Division and Dipex	20-05-2021 to 23-05-2021
2	SHEJAWAL SHRIKANT VITTHAL	1st Consolation Prize	Project Presentaton competition	Divisional and Dipex	Tantra shikshan Vidyarthi Karya,Kolapur Division and Dipex	20-05-2021 to 23-05-2021
3	METAKARI VISHVANATH TATOBA	1st Consolation Prize	Project Presentaton competition	Divisional and Dipex	Tantra shikshan Vidyarthi Karya,Kolapur Division and Dipex	20-05-2021 to 23-05-2021
4	SHEJAWAL SHRIKANT VITTHAL	Participation	TECHNO-MINDS-mind2k21 Paper presentation	National	MIT ,Aurngabad	17-06-2021 to 18-06-2021
5	SHEJAWAL SHRIKANT VITTHAL	Participation	TECHNO-MINDS-mind2k21 Project presentation	National	MIT ,Aurngabad	17-06-2021 to 18-06-2021
6	SHEJAWAL SHRIKANT VITTHAL	Participation	RIT HACKTHON 2K21	National	RIT,Rajaramnagar,Sakhrale	25-06-2021 to 26-06-2021

7	SHEJAWAL SHRIKANT VITTHAL	Participation	EUREKA 2K21 Paper Prsenation	National	TKIET,Warnanagar	12-06-201
8	BANE SAURABH NATHAJI	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
9	GAIKWAD SHUBHAM BHARAT	Participation	Prayog-2021 Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
10	METKARI VISHVANTH TATOBA	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
11	DONGARE SWAROOP MANGESH	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
12	ANANDE MAHESH ABASAHEB	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
13	ATTAR SUJAN SAMIR	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
14	JIRAGE KUNAL SANDEEP	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021

15	BHISE TEJASWINI BHIMRAO	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
16	JADHAV SHIVANJALI DILIP	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
17	GHORPADE SWARUPA KISHOR	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
18	PISAL KAUSTUBH SHAHAJI	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
19	NAZARKAR KAJAL UMESH	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
20	SHINDE KAVITA MOHAN	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
21	BORATE SWAPNALI DILIP	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
22	DANGE MUSKAN SHAKIL	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021
23	PARDESHI SHIVANI SUNIL	Participation	Prayog-2021	State	Arvind Gavali College of Engineering Satara	9-04-2021

NPTEL Certification

S.no	Roll Number	Course Id	Course Name	Name	Final Score	Certificate Type
1	NOC21CS02S12270128	noc21-cs02	Programming in C++	Chavan Anjali Shivaji	48	Successfully completed
2	NOC21CS02S12270089	noc21-cs02	Programming in C++	Shivani sunil jambhale	56	Successfully completed
3	NOC21CS07S14300275	noc21-cs07	Compiler Design	Mahesh Abasaheb Anande	53	Successfully completed
4	NOC21CS20S24300472	noc21-cs20	Introduction to Industry 4.0 and Industrial Internet of Things	Shivani rajendra lavanghare	71	Successfully completed
5	NOC21CS20S24300472	noc21-cs35	Deep Learning	Shivani rajendra Lavanghare	60	Successfully completed
6	51654520181124210025	noc21-cs31	Social Network	Akash Kharat	90	Elite Gold
7	NOC21HS02S14300208	noc21-hs02	Enhancing Soft skills and Personality	Tejal Pisal	60	Successfully completed
8	51654520181124210025	noc21-cs16	Cryptography and Network Security	Akash Kharat	86	Elite Silver

Extra Co-curricular activities						
Sr No	**Name of Student**	**Rank**	**Name of the event**	**Level**	**Event organized Institute**	**Date of Event**
1	Jadhav HarshadaDattatraya	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust,Satara(Balaji Blood Bank, Satara)	22-02-2021
2	KharartParthav Santosh	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust,Satara(Balaji Blood Bank, Satara)	22-02-2021
3	NikamAtharava Arvind	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust,Satara(Balaji Blood Bank, Satara)	22-02-2021
4	Sawant Kaushik Suresh	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust,Satara(Balaji Blood Bank, Satara)	22-02-2021
5	Chavan Dhanashree	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust,Satara(Balaji Blood Bank, Satara)	22-02-2021
6	WaskeSiddeshAvinash	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust,Satara(Balaji Blood Bank, Satara)	22-02-2021
7	Sawant Pratik Vijay	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust,Satara(Balaji Blood Bank, Satara)	22-02-2021

8	KatkarRushikesh Anil	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust,Satara(Balaji Blood Bank, Satara)	22-02-2021
9	Ghadage Shubham Popat	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust,Satara(Balaji Blood Bank, Satara)	22-02-2021
10	Shinde Kavita Mohan	Participation	Chess Mania	Institute	Arvind Gavali College of Engineering Satara	11-02-2021

YEAR 2019-20 Co-curricular activities						
Sr No	**Name of Student**	**Rank**	**Name of the event**	**Level**	**Event organized Institute**	**Date of Event**
1	KHARAT AKASH AJIT	2nd Prize	AVISHKAR 2019-2020	Zonal	Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India	9-11-2019
2	TEJASWI GAIKAWAD	2nd Prize	AVISHKAR 2019-2020	Zonal	Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India	9-11-2019
3	SHINDE MAYURI BHAGWAN	1st Prize	AVISHKAR 2019-2020	Zonal	Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India	9-11-2019
4	CHAVAN ANKITASANJAY	1st Prize	AVISHKAR 2019-2020	Zonal	Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India	9-11-2019
5	KHARAT AKASH AJIT	Participation	AVISHKAR 2019-2020	University	Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India	3-12-2019

6	TEJASWI GAIKAWAD	Participation	AVISHKAR 2019-2020	University	Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India	3-12-2019
7	KHARAT AKASH AJIT	Participation	Coderank2020	Intercollegiate	DIET,Satara	2020
8	SURAJ KAMBALE	Participation	Coderank2020	Intercollegiate	DIET,Satara	2020
6	BHOSALE PRIYANKA CHANDRAKANT	Participation	3 days online code mania	National	ADCET Astha	9-11-2019
7	MANE JYOTI SHANKAR	Participation	International Conference on Research Outlook, Innovations and Research Trends (ICROIRT-2020)	International	International Journal of Advance Study and Research Work (IJASRW	18-05-2020 to 23-05-2020
8	CHAVAN ANKITA RAMESH	Participation	TEQIP-III Sponsored International Conference on Inovations and Recent Trends in Engineering and Science - ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020

9	KUDALE KOMAL JITENDRA	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
10	LAMJE RAHUL MAHADEV	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
11	SHINDE POOJA NANDKUMAR	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
12	SUTAR SAYALI VASANT	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
13	JADHAV KOMAL SHIVAJI	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
14	GHADAGE SUPRIYA SANJAY	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
15	KHARADE PRITI ASHOK	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
16	MANE JYOTI SHANKAR	Participation	ICIRTE2020	International	Arvind GavaliCollege of Engineering Satara	18-05-2020 to 23-05-2020

17	MANE SHRADDHA SAYAJI	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
18	MANKAR SNEHA MOHAN	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
19	KHOT HARSHA BHASKAR	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
20	KAZI NADIM AMUL	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
21	SHINDE SHRADDHA DATTATRAY	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
22	ITHAPE POOJA BHANUDAS	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
23	MANE AISHWARYA SATISH	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
24	ZANJURNE KOMAL VIJAY	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020

25	JADHAV SHIVANI PRAKASH	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
26	ZANJURNE POOJA SANJAY	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
27	SHINDE APEKSHA DATTATRAY	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
28	KUDALE AKSHADA VINAYAK	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
29	PATANGE AMRUT MANOJ	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
30	GUJAR SUPRIYA CHANDRAKANT	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
31	DEHMUKH RITIKA RAVINDRA	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
32	HINGANE SEEMA PRALHAD	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020

33	BEBALE POONAM RAMESH	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
34	SHINDE SNEHAL ARJUN	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
35	JOHIJODE SHARAN JAGDISH	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
36	ZANJURNE DIPTI SHRIMANT	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
37	JADHAV RANI BHIKAJI	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
38	NALAWADE ASHISH ASHOK	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020
39	MULANI AMAN SIKANDER	Participation	ICIRTE2020	International	Arvind Gavali College of Engineering Satara	18-05-2020 to 23-05-2020

NPTEL Certification						
S.no	**Roll Number**	**Course Id**	**Course Name**	**Name**	**Final Score**	**Certificate Type**
1	NOC19CS52S21550224	noc19-cs52	Introduction to Machine Learning-IIT Kharagpur	SUTAR PRATIKSHA BALAVANT	60	Elite
2	NOC19CS46S21550248	noc19-cs46	Data Base Management System	RUTUJA RAJENDRA DHANAWADE	50	Successfully completed
3	NOC19CS79S21880236	noc19-cs79	Theory of Computation	ANIKET SANJAY PAWAR	68	Elite
4	NOC19CS46S21880026	noc19-cs46	Data Base Management System	WAGHMARE NISHA RAVINDRA	60	Elite
5	NOC19CS52S11880165	noc19-cs52	Introduction to Machine Learning-IIT Kharagpur	PRATIKSHA SANTOSH SHIRKE	60	Elite
6	NOC19CS52S21550226	noc19-cs52	Introduction to Machine Learning-IIT Kharagpur	VANJOLE SAMIKSHA SUNIL	72	Elite

7	NOC19CS46S11 880013	noc19-cs46	Data Base Management System	KOMAL ZANJURNE.	47	Successfully completed
8	NOC19CS46S21 880034	noc19-cs46	Data Base Management System	POOJA ZANJURNE	43	Successfully completed
9	NOC19CS68S42 120003	noc19-cs68	Ethical Hacking - Online	SUPRIYA ASHOK NALAWADE	52	Successfully completed
10	NOC19CS68S42 120005	noc19-cs68	Ethical Hacking - Online	SAISTA ALLAUDDIN PATEL	53	Successfully completed
11	NOC19CS68S42 120007	noc19-cs68	Ethical Hacking - Online	HARSHADA MANE	50	Successfully completed
12	NOC19CS64S42 120013	noc19-cs64	Cloud Computing - Online	SHRADDHA SHINDE	69	Elite
13	NOC19CS64S42 120015	noc19-cs64	Cloud Computing - Online	PUJA NANDKUMAR SHINDE	75	Elite+Silver

14	NOC19CS64S42 120017	noc19-cs64	Cloud Computing - Online	APEKSHA SHINDE	75	Elite+Silver
15	NOC19CS64S42 120017	noc20-cs13	Compiler Design	RUTUJA DHANAWADE	84	Successfully completed
16	NOC19CS64S42 120017	noc20-cs13	Compiler Design	PAYAL	85	Elite+Silver
17	NOC19CS64S42 120017	noc20-cs13	Compiler Design	VIDYA SURESH PARIHAR	91	Elite+Silver
18	NOC19CS64S42 120017	noc20-cs13	Compiler Design	CHITRANJALI ADIK KALANGE.	60	
19	NOC19CS64S42 120017	noc20-cs13	Compiler Design	PRATIKSHA DATTATRAY NIKAM	92	Elite+Silver
20	NOC19CS64S42 120017	noc20-cs13	Compiler Design	SAKSHI PRAKASH CHAVAN	53	pass

21	NOC19CS64S42 120017	noc20-cs13	Compiler Design	KOTHAWALE AISHWARRYA KISHOR	92	Elite+Silver
22	NOC19CS64S42 120017	noc20-cs13	Compiler Design	SONALI VIJAY MALUSARE	93	Elite+Silver
23	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	NIKITA SHANKAR KADAM	92	Elite+Gold
24	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	NISHA RAVINDRA WAGHMARE	96	Elite Gold
25	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	HARSHAL PRADIP JADHAV	96	Elite+Gold
26	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	GAVADE PRAVIN PRAKASH.	97	Elite+Gold
27	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	NIKITA CHANDRA KANT GHORPADE	96	Elite+Gold

28	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	SALONI JITENDRA KANASE	97	Elite+Gold
29	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	DIGVIJAY DATTATRAY JANGAM	97	Elite+Gold
30	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	MANE HARSHADA HANMANT	93	Elite+Gold
31	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	MAYURI BHAGWAN SHINDE	95	Elite+Gold
32	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	SHRADDHA SANTOSH SHINGATE	99	Elite+Gold
33	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	NAMRATA DATTATRAY GUJAR	93	Elite+Gold
34	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	LAVANGHARE SHIVANI RAJENDRA	97	Elite+Gold

35	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	AKASH PRAMOD DESAI	91	Elite+Gold
36	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	PRATIKSHA SUNIL SHINGATE	98	Elite+Gold
37	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	SAISTA ALLAUDDIN PATEL	98	Elite+Gold
38	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	SHRUTI SANJAY BHOSALE	99	Elite+Gold
39	NOC19CS64S42 120017	noc20-cs22	Introduction to internet of things	AKASH AJIT KHARAT	92	Elite+Gold
40	**NOC19CS49S6** **2120035**	noc19-cs49	Discrete Mathematics	SNEHA BASSAPPA DUGANI	42	Elite+Gold
41	NOC19CS49S62 120025	noc19 - cs49	Discrete Mathematics	Anushka Ajitkumar Deshmukh	44	Elite+Gold

Extra Co-curricular activities						
Sr No	**Name of Student**	**Rank**	**Name of the event**	**Level**	**Event organized Institute**	**Date of Event**
1	Surve Swaraj Bipinchandra	Runnerup	Wrestling -70k	district	District Talimsangh	17-12-2019
2	Surve Swaraj Bipinchandra	Runnerup	Wrestling -57k	Intercollegiate	KBP Satara	28-09-2019 to 29-09-2019
3	Anande MaheshAbasaheb	Participation	KHO-KHO	Intercollegiate	Samarth Institute of PharmacyBelhe	11-10-2019 to 13-10-2029
4	Korade Shubham Ashok	Participation	KHO-KHO	Intercollegiate	Samarth Institute of Pharmacy Belhe	11-10-2019 to 13-10-2029
5	KatkarArati Vilas	3rd Prize	KHO-KHO	Intercollegiate	Samarth Institute of Pharmacy Belhe	11-10-2019 to 13-10-2029
6	Vedpathak Poonam Jagnath	3rd Prize	KHO-KHO	Intercollegiate	Samarth Institute of Pharmacy Belhe	11-10-2019 to 13-10-2029
7	Ingawalepratiksha	3rd Prize	KHO-KHO	University	Samarth Institute of Pharmacy Belhe	11-10-2019 to 13-10-2029
8	Patil KarishmaDaatatraya	Winner	Kabbadi	University	Samarth Institute of Pharmacy Belhe	11-10-2019 to 13-10-2029

9	Chavan poojaNanasaheb	Winner	Kabbadi	Intercollegiate	Samarth Institute of Pharmacy Belhe	11-10-2019 to 13-10-2029
10	Bhosale Priyanka Chandrakant	Winner	Kabbadi	Intercollegiate	Samarth Institute of Pharmacy Belhe	11-10-2019 to 13-10-2029
11	More Shubhangi Uttam	Winner	Kabbadi	Intercollegiate	Samarth Institute of PharmacyBelhe	11-10-2019 to 13-10-2029
12	VelapureDivya	Winner	Kabbadi	Intercollegiate	Samarth Institute of Pharmacy	11-10-2019 to 13-10-2029
13	Nalawade Supriya	3rd place	Chess	Intercollegiate	J.T. Mahajan COE, Faizpur	17-09-2019 To 18-09-2019

YEAR 2018-19 Co-curricular activities					
Sr No	**Number of students Participated**	**Name of the event**	**Level**	**Event organized Institute**	**Date of Event**
1	Miss. Swati Jagatp	First Year Engineering topper	District	Retired Engineer ManadalSatara	24-09-2018
2	Chavan Ankita Sanjay	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
3	Lavanghare Shivani Rajendra	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
4	Sutar Pratiksha Balavant	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
5	Kadam Manasi Rajendra	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
6	Ghorpade Nikita Chandrakant	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
7	Shingate Pratiksha Sunil	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
8	Shinde Mayuri Bhagwan	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
9	Kanase Saloni Jitendra	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018

10	Shingate Shraddha Santosh	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
11	Kadam Nikita Shankar	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
12	Patel Saista Allauddin	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
13	Gore Poonam Vishwas	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
14	Mane Harshada Hanmant	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
15	Pawar Archana Bajirao	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
16	Nalawade Supriya Ashok	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
17	Gavade Pravin Prakash	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
18	Patil Shruti Somnath	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
19	Gujar Namrata Dattatray	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
20	Dhabugade Aarti Anil	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
21	Patil Karishma Dattatray	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018

22	Kharat Akash Ajit	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
23	Pawar Aniketsanjay	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
24	Shirke Pratiksha Santosh	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
25	Dugani Sneha Basappa	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
26	Pawar Sayali Somnath	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
27	Desai Akash Pramod	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
28	Dalavi Shivani Dattatray	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
29	Wagh Rohit Pramod	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
30	Phadtare Mayuri Nanaso	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
31	Ingawale Pratiksha Devendra	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
32	Jagtap Swati Sudhir	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
33	Gaikwad Tejaswini Prakash	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018

34	Shinde Rutuja Sanjay	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
35	Pawar Pooja Balasaheb	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
36	Yadav Shivani Rahul	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
37	Mane Sapana Rajendra	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
38	Waghmare Nisha Ravindra	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
39	Kirve Ravina Dipak	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
40	Raut Pournima Yuvraj	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
41	Kshirsagar Harshada Pramod	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
42	Dhanawade Rutuja Rajendra	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018
43	Bansode Pooja Subhash	C WAR	Institute	Arvind Gavali College of Engineering Satara	15-08-2018

Extra-curricular activities

Sr No	No of Students Participated	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	203	NA	Sawakar Trophy (Kabaddi,kho-Kho, Criket,Box-criket,Tug Of war,Chess, Carrom)	District	Arvind Gavali College of Engineering Satra	11-01-2019 to 17-01-2019

CRITERION 05	**Faculty Information and Contributions**	**200**

Academic Year: 2022-2023

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Professor/Ass.Proff.	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (IncaseCurrentlyAssociated	Nature of Association (Regular/Contract)
	Degree (highest degree)	University	Year of attaining higher qualification							Research Paper	Ph.D.Guidance	FacultyReceivingPh.D.durin		
Ashwini Prakash Sawant	M.Tech	Bharati Vidyapeeth	2014	Y	Asstt. Prof.		11/06/2012	CSE	IT	0	NIL	NIL	Y	Regular Approved
Pranav Avinash Pathak	ME	SPPU, Pune	2016	Y	Asstt. Prof.		22/09/2011	CSE	Computer	3	NIL	NIL	Y	Regular
Samina Yasin Mulla	ME	SPPU, Pune	2014	Y	Asstt. Prof.		29/06/2015	CSE	Computer	3	NIL	NIL	Y	Regular Approved
Rajani Mahendra Mandhare	ME	Shivaji University	2008	Y	Asstt. Prof.		01/06/2019	CSE	Computer	3	NIL	NIL	Y	Regular
Dr.Varsha Kiran Bhosale	PhD	NMIMS, Mumbai.	2019	Y	Professor	01/07/2019	01/07/2019	CSE	Computer	4	NIL	NIL	Y	Regular
Vijay Bhanudas Gujar	M Tech	DBATU, Lonere	2011	Y	Asstt. Prof.		01/11/2020	CSE	Computer	4	NIL	NIL	Y	Regular
Vanashri Dipak Mane	ME	SPPU, Pune	2015	Y	Asstt. Prof.		15/06/2022	CSE	Computer	1	NIL	NIL	31-05-2023	Regular

Devaki Vijay Ingule	ME	SPPU, Pune	2015	Y	Asstt. Prof.		15/06/2022	CSE	Computer	1	NIL	NIL	31-05-2023	Regular
Suraj Rajaram Nalavade	ME	Nehru Techological ,Hydrabad	2014	Y	Asstt. Prof.		15/06/2021	CSE	Computer Network	0	NIL	NIL	31-05-2023	Regular
Ranjita Chakote	MCA	Nehru Techological ,Hydrabad	2014	Y	Asstt. Prof.		01/08/2014	CSE	Computer Science and engg	0	NIL	NIL	Y	Regular
Dr. Manali Shah	PhD	JJTU	2022	Y	Assoc. Prof.		01/04/2022	CSE	Computer	3	NIL	Y	Y	Regular
Uday Rajaram Nalavade	ME	SPPU, Pune	2016	Y	Asstt. Prof.		15/06/2022	CSE	Computer	0	NIL	NIL	31-05-2023	Regular

Academic Year: 2021-2022

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Professor/Ass.Proff.	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (IncaseCurrentlyAssociated is("No")	Nature of Association (Regular/Contract)
	Degree (highest degree)	University	Year of attaining							Research Paper	Ph.D.Guidance	FacultyReceivingPh.D.durin		
Ashwini Prakash Sawant	M.Tech	Bharati Vidyapeeth	2014	Y	Asstt. Prof.		11/06/2012	CSE	IT	0	NIL	NIL	Y	Regular Approved
Pranav Avinash Pathak	ME	SPPU, Pune	2016	Y	Asstt. Prof.		22/09/2011	CSE	Computer	1	NIL	NIL	Y	Regular
Samina Yasin Mulla	ME	SPPU, Pune	2015	Y	Asstt. Prof.		29/06/2015	CSE	Computer	1	NIL	NIL	Y	Regular Approved
Dinkar Vishnu Jadhav	ME	SPPU ,Pune	2015	Y	Asstt. Prof.		15/06/2018	CSE	Computer	0	NIL	NIL	30-04-2022	Regular
Dr.Varsha Kiran Bhosale	PhD	NMIMS, Mumbai.	2019	Y	Professor		01/07/2019	CSE	Computer	4	NIL	NIL	Y	Regular
Rajani Mahendra Mandhare	ME	Shivaji University	2008	Y	Asstt. Prof.		01/06/2019	CSE	Computer	2	NIL	NIL	Y	Regular

Vijay Bhanudas Gujar	M Tech	DBATU, Lonere	2011	Y	Asstt. Prof.		01/11/2020	CSE	Computer	2	NIL	NIL	Y	Regular
Vanashri Dipak Mane	M Tech	SPPU, Pune	2015	Y	Asstt. Prof.		15/9/2021	CSE	Computer	1	NIL	NIL	30-04-2022	Regular
Devaki Vijay Ingule	ME	SPPU, Pune	2015	Y	Asstt. Prof.		15/9/2021	CSE	Computer	1	NIL	NIL	30-04-2022	Regular
Pushpendra Satayaprakash Bhat	ME	SPPU, Pune	2017	Y	Asstt. Prof.		15/9/2021	CSE	Computer Network	0	NIL	NIL	30-04-2022	Regular
Nikita Rajendra Barge	ME	SPPU, Pune	2021	Y	Asstt. Prof.		15/06/2021	CSE	Computer Science and engg	0	NIL	NIL	30-04-2022	Regular
Suraj Rajaram Nalawade	ME	Nehru Techological ,Hydrabad	2014	Y	Asstt. Prof.		15/06/2021	CSE	Computer	0	NIL	NIL	Y	Regular
Ranjita Chakote	MCA	Nehru Techological ,Hydrabad	2014	Y	Asstt. Prof.		01/08/2014	CSE	Computer Science and engg	0	NIL	NIL	Y	Regular

Academic Year: 2020 – 2021

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Professor/Ass.Proff.	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (IncaseCurrentlyAssociated	Nature of Association (Regular/Contract)
	Degree(highestdegree)	University	Yearofattaininghigher							ResearchPaperPublications	Ph.D.Guidance	FacultyReceivingPh.D.duri		
Ashwini Prakash Sawant	M.Tech	Bharati Vidyapeeth	2014	Y	Asstt. Prof.		11/06/2012	CSE	IT	1	NIL	NIL	Y	Regular Approved
Pranav Avinash Pathak	M E	SPPU, Pune	2016	Y	Asstt. Prof.		22/09/2011	CSE	Computer	2	NIL	NIL	Y	Regular
Samina Yasin Mulla	ME	SPPU,Pune	2015	Y	Asstt. Prof.		29/06/2015	CSE	Computer	2	NIL	NIL	Y	Regular
Harshal Ashokrao Karande	ME	SPPU,Pune	2015	Y	Asstt. Prof.		15/06/2016	CSE	Computer	1	NIL	NIL	31-04-2021	Regular
Dinkar Vishnu Jadhav	ME	SPPU,Pune	2015	Y	Asstt. Prof.		15/06/2018	CSE	Computer	1	NIL	NIL	Y	Regular
Priyanka Lahu Gaikwad	ME	IOT, Shivajji University, Kolhapur.	2012	Y	Asstt. Prof.		30/07/2018	CSE	Computer	1	NIL	NIL	31-04-2021	Regular
Dr. Varsha Kiran Bhosale	PhD	NMIMS, Mumbai.	2019	Y	Prof		01/07/2019	CSE	Computer	3	NIL	NIL	Y	Regular

Rajani Mahendra Mandhare	ME	Shivaji University	2008	Y	Asstt. Prof.		01/06/2019	CSE	Computer	2	NIL	NIL	Y	Regular
Pushpendra Satya Prakash Bhat	ME	SPPU, Pune	2017	Y	Asstt. Prof.		01/07/2019	CSE	Computer	1	NIL	NIL	Y	Regular
Vijay Bhanudas Gujar	MTech	DBATU Lonere	2011	Y	Asstt. Prof.		01/11/2020	CSE	Computer	2	NIL	NIL	Y	Regular
Ranjita Chakote	MCA	Nehru Techological ,Hydrabad	2014	Y	Asstt. Prof.		01/08/2014	CSE	Computer Science and engg	0	NIL	NIL	Y	Regular

5.1 Student – Faculty Ratio (SFR)(16)

(To be calculated at Department Level)

No. of UG Programs in the Department (n): 01

No. of PG Programs in the Department (m): 00

No. of Students in UG 2nd Year = u1

No. of Students in UG 3rd Year = u2

No. of Students in UG 4th Year = u3

No. of Students in PG 1st Year = p1

No. of Students in PG 2nd Year = p2

No. of Students = Sanctioned Intake + Actual Admitted Lateral Entry Students

(The above data to be provided considering all the UG and PG programs of the department)

S = Number of Students in the Department = UG1 + UG2 + UG3 + PG1 + PG2

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Teacher Ratio (STR) = S/F

Table B.5.1

Year	CAY(2022-23)	CAYm1(2021-22)	CAYm2 (2020-21)
u1.1	**60+6**	**60+6**	**60+6**
u1.2	**60 + 6**	**60 + 6**	**60 + 6**
u1.3	**60 + 6**	**60 + 6**	**60 + 10**
UG1 = u1.1 + u1.2 + u1.3	**198**	**198**	**202**
Total No. of Students in the Department **(S) = UG1 + UG2 + … + UGn + PG1 + … +PGn**	**198**	**198**	**202**
No. of Faculty in the Department **(F)**	**F1 = 12**	**F2 = 13**	**F3 = 11**
Student Faculty Ratio(SFR)	**SFR1=S1/F1 =16.5**	**SFR2=S2/F2 = 15.23**	**SFR3=S3/F3 =18.36**
Average SFR	**SFR=(SFR1+SFR2+SFR3)/3 = 16.69**		

5.1.1 Provide the information about the regular and contractual faculty as per the format mentioned below:

Table 5.1.1

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY (2022-23)	12	0
CAYm1 (2021-22)	13	0
CAYm2 (2020-21)	11	0

5.2 Faculty Cadre Proportion

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

Table B 5.2

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY (2022-23)	**1.1**	1	2.2	1	**6.6**	10
CAYm1 (2021-22)	1.1	1	2.2	0	6.6	12
CAYm2 (2020-21)	1.12	1	2.24	0	6.72	10
Average Numbers	**RF1=1.10**	**AF1=1**	**RF2=2.21**	**AF2=0.33**	**RF3=6.64**	**AF3=10.66**

$$\text{Cadre Ratio Marks} = [[\frac{AF1}{RF1}] + [\frac{AF2}{RF2} \times 0.6] + [\frac{AF3}{RF3} \times 0.4]] \times 12.5$$

$$[[\frac{1}{1.10}] + [\frac{0.33}{2.21} \times 0.6] + [\frac{10.66}{6.64} \times 0.4]] \times 12.5 = 20.38$$

If AF1 = AF2= 0 then zero marks

Maximum marks to be limited if it exceeds 25

Example: Intake = 60 (i.e. total no. of students= 180); Required number of Faculty: 9; RF1= 1, RF2=2 and RF3=6

Case 1: AF1/RF1= 1; AF2/RF2 = 1; AF3/RF3 = 1; Cadre proportion marks = (1+0.6+0.4) x 12.5= 25

Case 2: AF1/RF1= 1; AF2/RF2 = 3/2; AF3/RF3 = 5/6; Cadre proportion marks = (1+0.9+0.3) x12.5 = limited to 25

Case 3: AF1/RF1=0; AF2/RF2=1/2; AF3/RF3=8/6; Cadre proportion marks =

(0+0.3+0.53) x 12.5 = 10.4

5.3 Faculty Qualification

FQ =2.5 x [(10X +4Y)/F)] where X is no. of regular faculty with Ph.D., Y is no. of regular faculty with M.Tech. F is no. of regular faculty required to comply 20:1 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

Table B. 5.3

Years	X	Y	F	FQ=2.5x[(10X+4Y)/F)]
CAY (2022-23)	2	10	9.9	15.15
CAYm1 (2021-22)	1	12	9.9	14.64
CAYm2 (2020-21)	1	10	10.1	12.37
Average Assessment				**14.05**

CAY(2022-23)=2.5 x[(10*2+4*10)/9.9]= 15.15

CAY(2021-22)=2.5 x[(10*1+4*12)/9.9]=14.64

CAY(2020-21)=2.5 x[(10*1+4*10)/10.1]=12.37

5.4 Faculty Retention

No. of regular faculty members in CAY *m*2 (2020-21)=11

Faculty Retention: 71.55%

Year	CAY m2 (2020-2021)	CAY m1 (2021-2022)	CAY (2022-2023)
No. of Faculty in the base year (2020 – 2021)	11	13	11
No. of Faculty Retained	9	9	7
Faculty Retention (%)	81.81	69.23	63.63

5.5 Innovations by the Faculty in Teaching and Learning

Innovations by the Faculty in teaching and learning shall be summarized as per the following description.

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, instruction delivery, instructional methods, assessment, evaluation, and inclusive class rooms that lead to effective, efficient, and engaging instruction.

Any contribution to teaching and learning should satisfy the following criteria:

- The work must be made available on Institute website
- The work must be available for peer review and critique
- The work must be reproducible and developed further by other scholars

These may typically include statement of clear goals, adequate preparation, use of appropriate methods, significance of results, effective presentation and reflective critique.

The faculty members of the Computer Science and Engineering department follow innovative methodologies in the classroom in addition to the conventional methods.

Conventional Methods Followed:

1. Blackboard
2. Sharing learning materials
3. Questioning in the class
4. **Innovative Methods**.

- **MOODLE (Modular Object-Oriented Dynamic Learning Environment)**

The institute has configured learning platform which is available 24 × 7 to faculty and students. Using MOODLE, faculty can create courses in their respective program. Faculties can upload assignment questions, course material, presentations, and other material needed by the students for study purpose. Students can be automatically enrolled to the course with access rights given by the faculty as per their role in the course. Using MOODLE, faculty can maintain attendance of students, monitor their progress in exams, and maintain student assignments, internal exam data.

Figure 5.5.1 MOODLE Screenshot/Screen Print

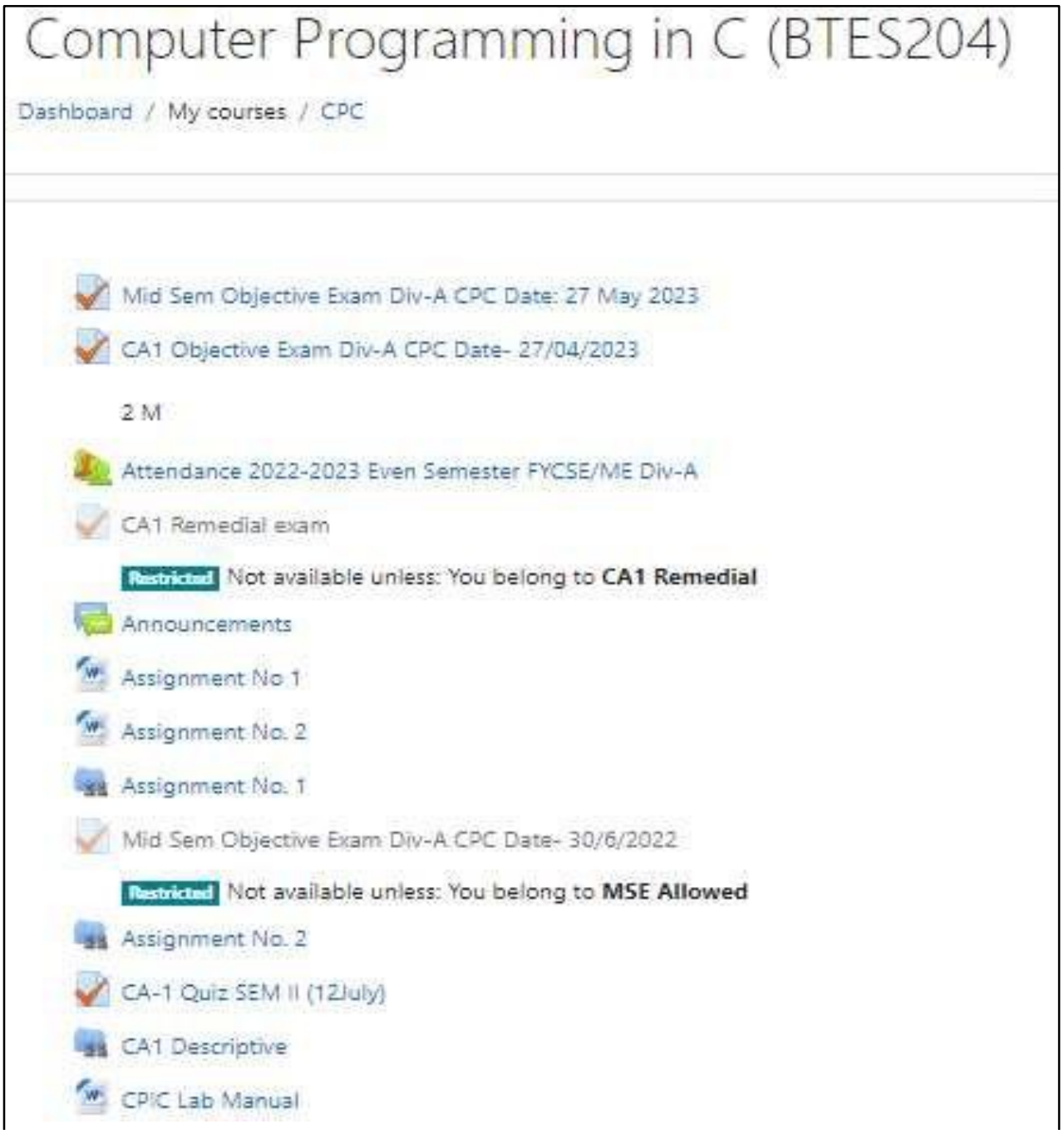


Figure 5.5.2 MOODLE Page of Computer Programming in C (FY CSE)

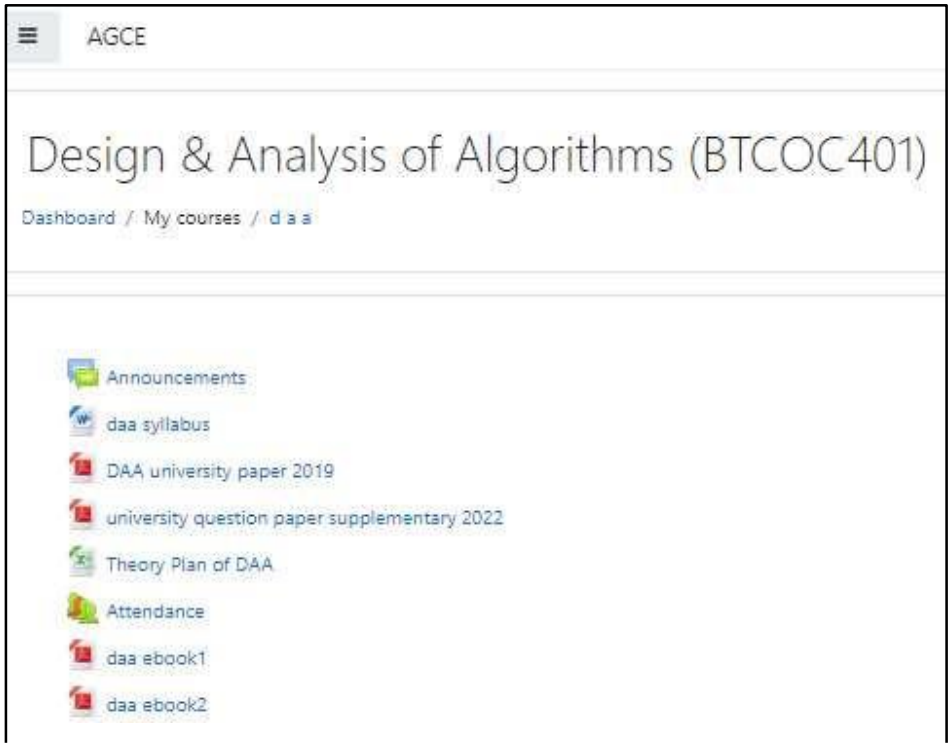


Figure 5.5.3 MOODLE Page of Design and analysis of algorithms (SY CSE)

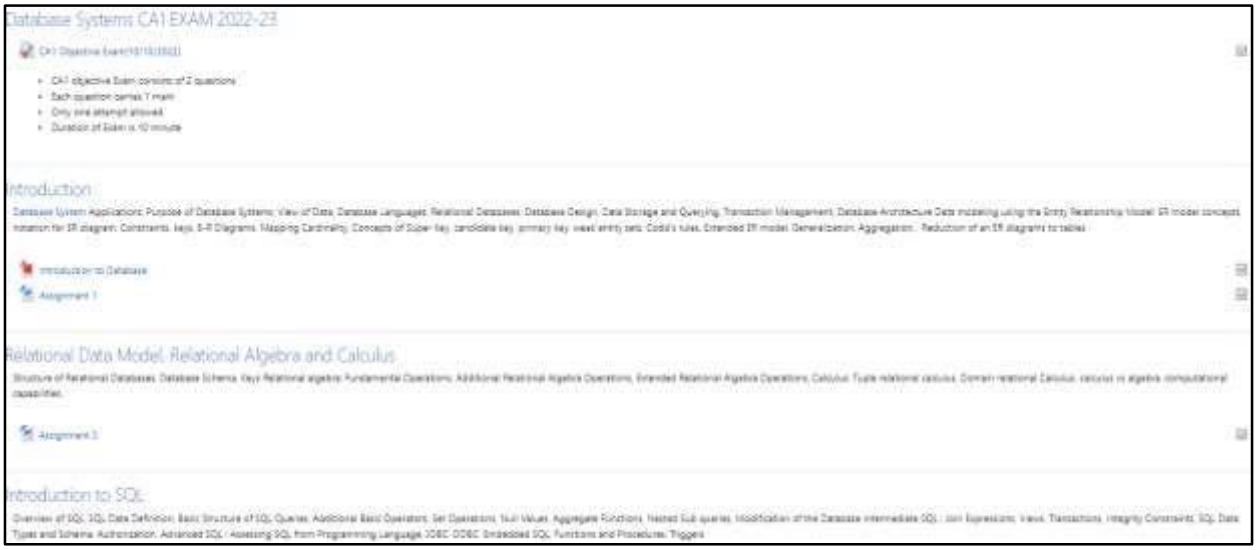
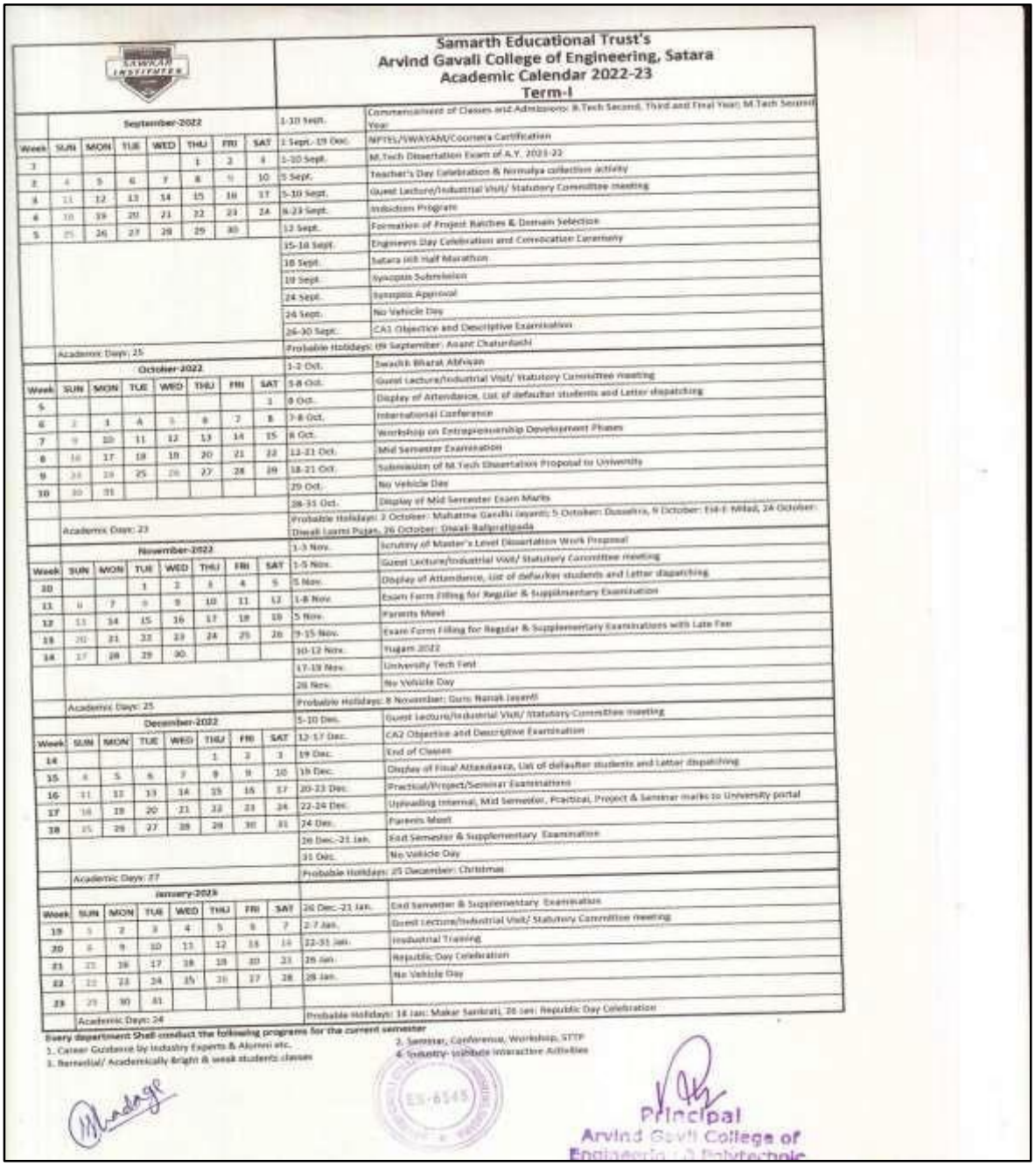


Figure 5.5.4 MOODLE Page of Database systems TY CSE

Figure 5.5.5 MOODLE Page of Industrial IoT BTech

- **Timetable:**

The institute academic calendar according to Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India, is made available on the institute website, displayed on department and laboratory notice boards, and also distributed to the students via student Whatsapp groups.



Samarth Educational Trust's
Arvind Gavali College of Engineering, Satara
Academic Calendar 2022-23
Term-I

September-2022

Week	SUN	MON	TUE	WED	THU	FRI	SAT
1					1	2	3
2	4	5	6	7	8	9	10
3	11	12	13	14	15	16	17
4	18	19	20	21	22	23	24
5	25	26	27	28	29	30	

Academic Days: 25

1-10 Sept.	Commencement of Classes and Admissions: B.Tech Second, Third and Final Year; M.Tech Second Year
1 Sept.-19 Dec.	NPTEL/SWAYAM/Coursera Certification
1-10 Sept.	M.Tech Dissertation Exam of A.Y. 2021-22
5 Sept.	Teacher's Day Celebration & Nirmalya collection activity
5-10 Sept.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
6-23 Sept.	Induction Program
12 Sept.	Formation of Project Batches & Domain Selection
15-16 Sept.	Engineers Day Celebration and Convocation Ceremony
18 Sept.	Satara Hill Half Marathon
19 Sept.	Synopsis Submission
24 Sept.	Synopsis Approval
24 Sept.	No Vehicle Day
26-30 Sept.	CA1 Objective and Descriptive Examination
Probable Holidays: 09 September: Anant Chaturdashi	

October-2022

Week	SUN	MON	TUE	WED	THU	FRI	SAT
5							1
6	2	3	4	5	6	7	8
7	9	10	11	12	13	14	15
8	16	17	18	19	20	21	22
9	23	24	25	26	27	28	29
10	30	31					

Academic Days: 23

1-2 Oct.	Swachh Bharat Abhiyan
5-8 Oct.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
8 Oct.	Display of Attendance, List of defaulter students and Letter dispatching
7-8 Oct.	International Conference
8 Oct.	Workshop on Entrepreneurship Development Phases
11-21 Oct.	Mid Semester Examination
18-21 Oct.	Submission of M.Tech Dissertation Proposal to University
29 Oct.	No Vehicle Day
28-31 Oct.	Display of Mid Semester Exam Marks
Probable Holidays: 2 October: Mahatma Gandhi Jayanti; 5 October: Dussehra, 9 October: Eid-E Milad, 24 October: Diwali Laxmi Pujan, 26 October: Diwali Balipratipada	

November-2022

Week	SUN	MON	TUE	WED	THU	FRI	SAT
10			1	2	3	4	5
11	6	7	8	9	10	11	12
12	13	14	15	16	17	18	19
13	20	21	22	23	24	25	26
14	27	28	29	30			

Academic Days: 25

1-3 Nov.	Scrutiny of Master's Level Dissertation Work Proposal
1-5 Nov.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
5 Nov.	Display of Attendance, List of defaulter students and Letter dispatching
1-8 Nov.	Exam Form Filling for Regular & Supplimentary Examination
5 Nov.	Parents Meet
7-15 Nov.	Exam Form Filling for Regular & Supplementary Examinations with Late Fee
10-12 Nov.	Yugam 2022
17-19 Nov.	University Tech Fest
26 Nov.	No Vehicle Day
Probable Holidays: 8 November: Guru Nanak Jayanti	

December-2022

Week	SUN	MON	TUE	WED	THU	FRI	SAT
14					1	2	3
15	4	5	6	7	8	9	10
16	11	12	13	14	15	16	17
17	18	19	20	21	22	23	24
18	25	26	27	28	29	30	31

Academic Days: 27

5-10 Dec.	Guest Lecture/Industrial Visit/ /Statutory Committee meeting
12-17 Dec.	CA2 Objective and Descriptive Examination
19 Dec.	End of Classes
19 Dec.	Display of Final Attendance, List of defaulter students and Letter dispatching
20-23 Dec.	Practical/Project/Seminar Examinations
22-24 Dec.	Uploading Internal, Mid Semester, Practical, Project & Seminar marks to University portal
24 Dec.	Parents Meet
26 Dec.-21 Jan.	End Semester & Supplementary Examination
31 Dec.	No Vehicle Day
Probable Holidays: 25 December: Christmas	

January-2023

Week	SUN	MON	TUE	WED	THU	FRI	SAT
19	1	2	3	4	5	6	7
20	8	9	10	11	12	13	14
21	15	16	17	18	19	20	21
22	22	23	24	25	26	27	28
23	29	30	31				

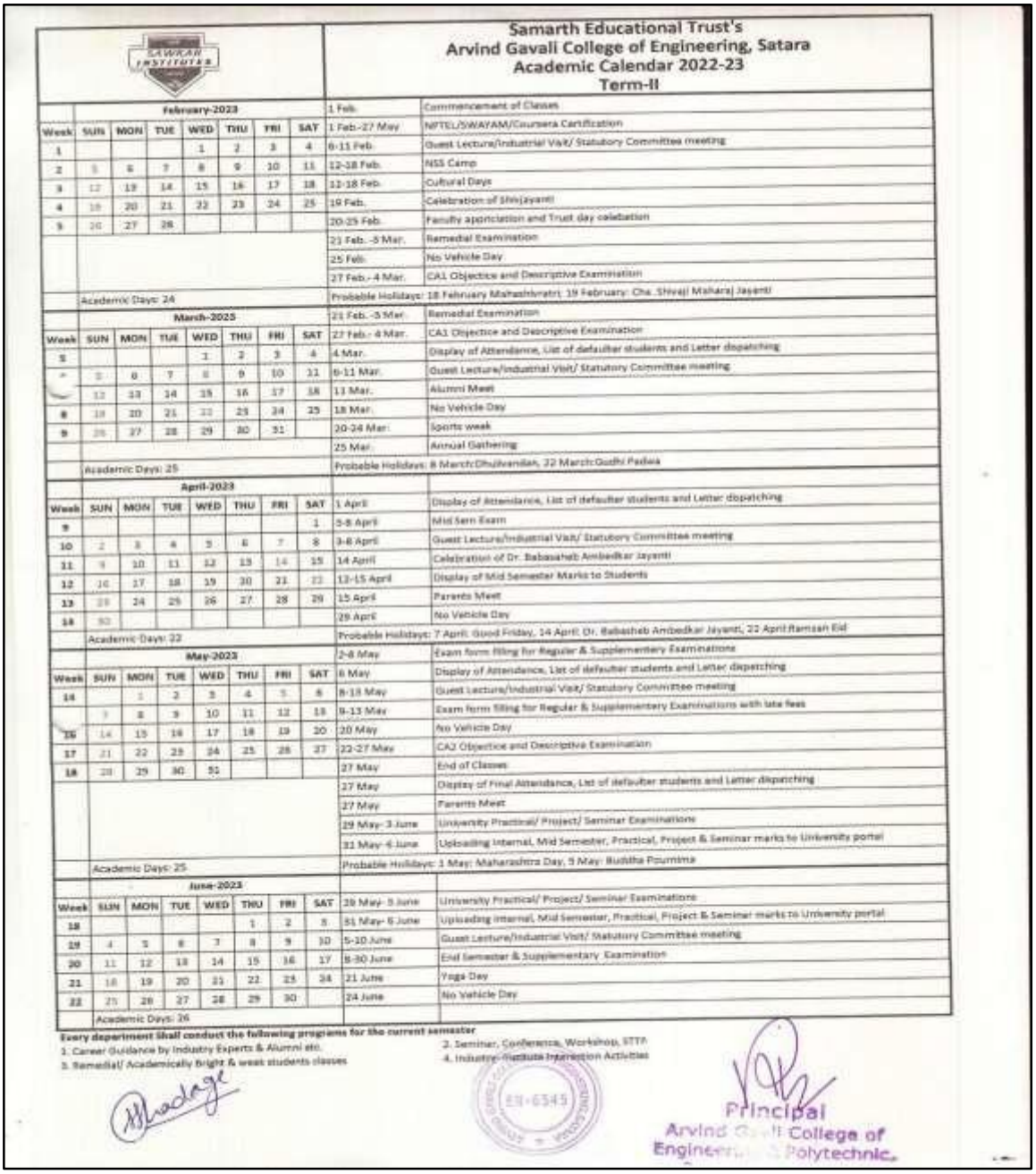
Academic Days: 24

26 Dec.-21 Jan.	End Semester & Supplementary Examination
2-7 Jan.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
22-31 Jan.	Industrial Training
26 Jan.	Republic Day Celebration
28 Jan.	No Vehicle Day
Probable Holidays: 14 Jan: Makar Sankrati, 26 Jan: Republic Day Celebration	

Every department Shall conduct the following programs for the current semester
1. Career Guidance by Industry Experts & Alumni etc.
2. Seminar, Conference, Workshop, STTP
3. Remedial/ Academically Bright & weak students classes
4. Industry-Institute Interactive Activities

Principal
Arvind Gavli College of Engineering / Polytechnic

Figure 5.5.6 Academic Calendar for the Academic Year 2022 – 23 (Odd Semester)



Samarth Educational Trust's
Arvind Gavali College of Engineering, Satara
Academic Calendar 2022-23
Term-II

February-2023

Week	SUN	MON	TUE	WED	THU	FRI	SAT
1				1	2	3	4
2	5	6	7	8	9	10	11
3	12	13	14	15	16	17	18
4	19	20	21	22	23	24	25
5	26	27	28				

Academic Days: 24

1 Feb.	Commencement of Classes
1 Feb.-27 May	NPTEL/SWAYAM/Coursera Certification
6-11 Feb.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
12-18 Feb.	NSS Camp
12-18 Feb.	Cultural Days
19 Feb.	Celebration of Shivjayanti
20-25 Feb.	Faculty appriciation and Trust day celebation
21 Feb.-5 Mar.	Remedial Examination
25 Feb.	No Vehicle Day
27 Feb.-4 Mar.	CA1 Objective and Descriptive Examination
Probable Holidays: 18 February Mahashivratri, 19 February: Cha. Shivaji Maharaj Jayanti	

March-2023

Week	SUN	MON	TUE	WED	THU	FRI	SAT
5				1	2	3	4
6	5	6	7	8	9	10	11
7	12	13	14	15	16	17	18
8	19	20	21	22	23	24	25
9	26	27	28	29	30	31	

Academic Days: 25

21 Feb.-5 Mar.	Remedial Examination
27 Feb.- 4 Mar.	CA1 Objective and Descriptive Examination
4 Mar.	Display of Attendance, List of defaulter students and Letter dispatching
6-11 Mar.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
11 Mar.	Alumni Meet
18 Mar.	No Vehicle Day
20-24 Mar.	Sports week
25 Mar.	Annual Gathering
Probable Holidays: 8 March:Dhulivandan, 22 March:Gudhi Padwa	

April-2023

Week	SUN	MON	TUE	WED	THU	FRI	SAT
9							1
10	2	3	4	5	6	7	8
11	9	10	11	12	13	14	15
12	16	17	18	19	20	21	22
13	23	24	25	26	27	28	29
14	30						

Academic Days: 22

1 April	Display of Attendance, List of defaulter students and Letter dispatching
3-8 April	Mid Sem Exam
3-8 April	Guest Lecture/Industrial Visit/ Statutory Committee meeting
14 April	Celebration of Dr. Babasaheb Ambedkar Jayanti
12-15 April	Display of Mid Semester Marks to Students
15 April	Parents Meet
29 April	No Vehicle Day
Probable Holidays: 7 April: Good Friday, 14 April: Dr. Babasheb Ambedkar Jayanti, 22 April:Ramzan Eid	

May-2023

Week	SUN	MON	TUE	WED	THU	FRI	SAT
14		1	2	3	4	5	6
	7	8	9	10	11	12	13
15	14	15	16	17	18	19	20
17	21	22	23	24	25	26	27
18	28	29	30	31			

Academic Days: 25

2-8 May	Exam form filling for Regular & Supplementary Examinations
6 May	Display of Attendance, List of defaulter students and Letter dispatching
8-13 May	Guest Lecture/Industrial Visit/ Statutory Committee meeting
9-13 May	Exam form filling for Regular & Supplementary Examinations with late fees
20 May	No Vehicle Day
22-27 May	CA2 Objective and Descriptive Examination
27 May	End of Classes
27 May	Display of Final Attendance, List of defaulter students and Letter dispatching
27 May	Parents Meet
29 May- 3 June	University Practical/ Project/ Seminar Examinations
31 May- 6 June	Uploading Internal, Mid Semester, Practical, Project & Seminar marks to University portal
Probable Holidays: 1 May: Maharashtra Day, 5 May: Buddha Pournima	

June-2023

Week	SUN	MON	TUE	WED	THU	FRI	SAT
18					1	2	3
19	4	5	6	7	8	9	10
20	11	12	13	14	15	16	17
21	18	19	20	21	22	23	24
22	25	26	27	28	29	30	

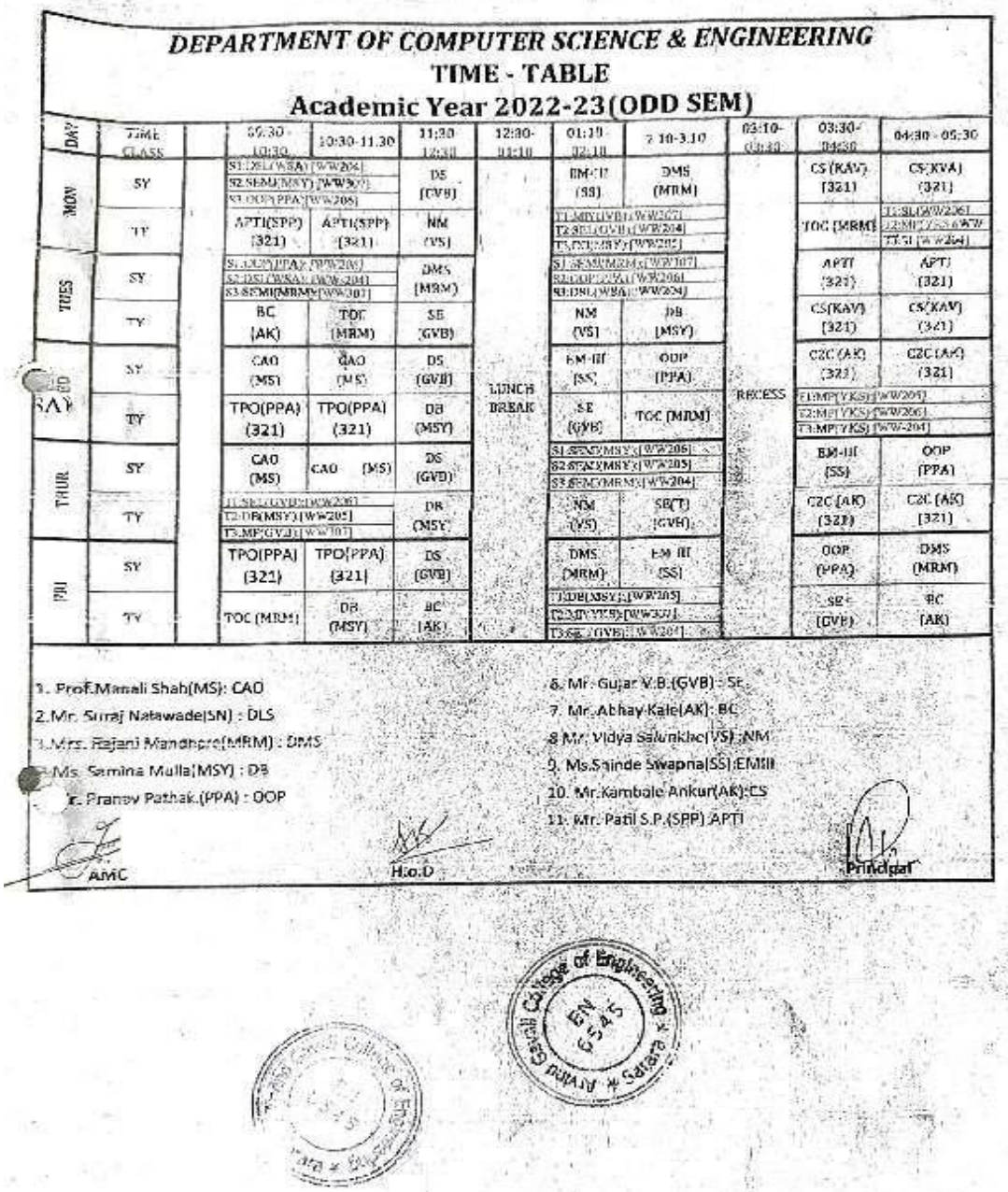
Academic Days: 26

29 May- 3 June	University Practical/ Project/ Seminar Examinations
31 May- 6 June	Uploading Internal, Mid Semester, Practical, Project & Seminar marks to University portal
5-10 June	Guest Lecture/Industrial Visit/ Statutory Committee meeting
8-30 June	End Semester & Supplementary Examination
21 June	Yoga Day
24 June	No Vehicle Day

Every department shall conduct the following programs for the current semester
1. Career Guidance by Industry Experts & Alumni etc.
2. Seminar, Conference, Workshop, STTP
3. Remedial/ Academically Bright & weak students classes
4. Industry-Institute Interaction Activities

Principal
Arvind Gavali College of Engineering / Polytechnic

Figure 5.5.7 Academic Calendar for the Academic Year 2022 – 23 (Even Semester)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TIME - TABLE

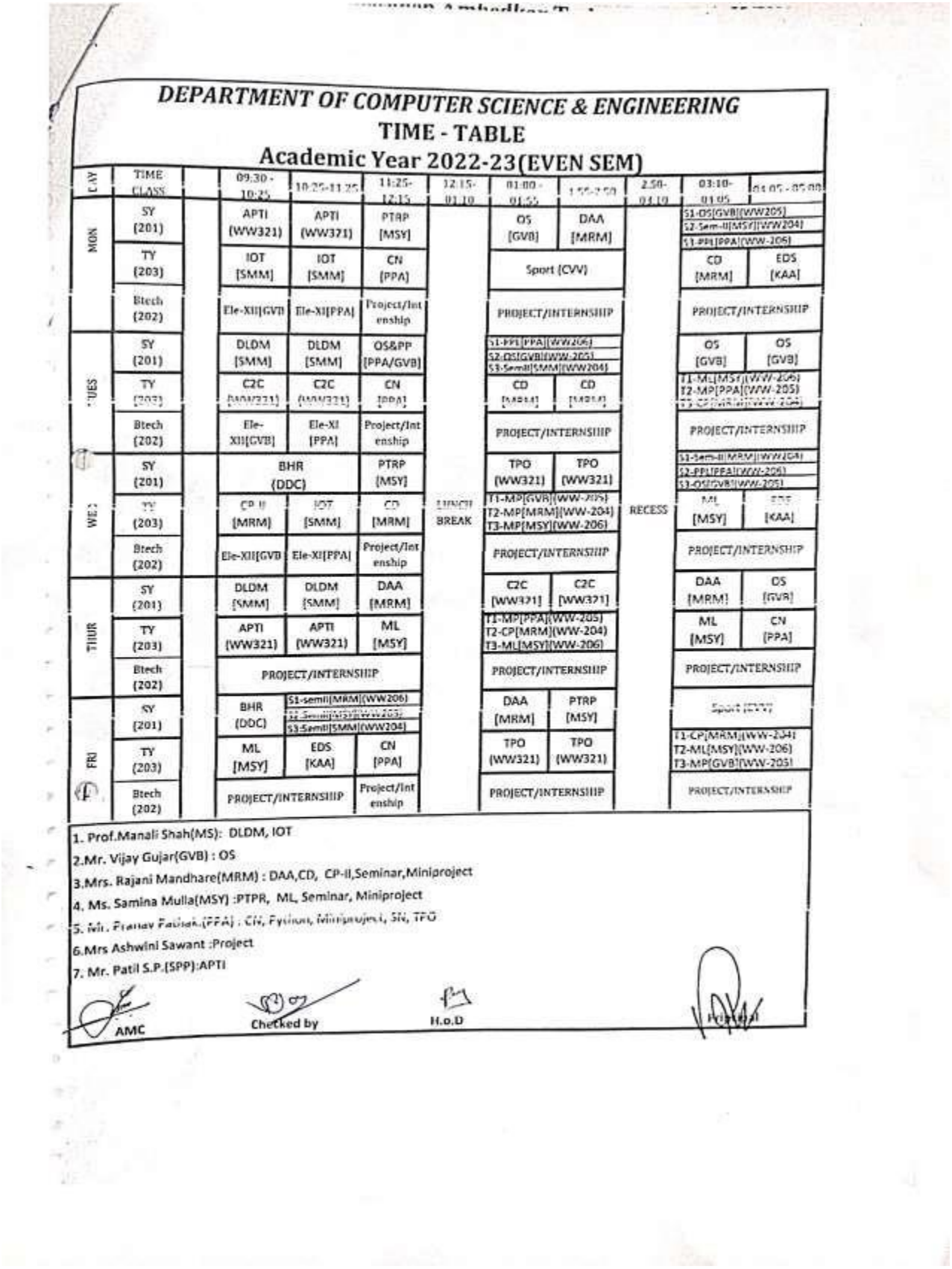
Academic Year 2022-23(ODD SEM)

DAY	TIME CLASS		09:30-10:30	10:30-11.30	11:30-12:30	12:30-01:10	01:10-02:10	2.10-3.10	03:10-03:30	03:30-04:30	04:30-05:30
MON	SY		S1:DSL(WSA) [WW204] S2:SEMI(MSY) [WW307] S3:OOP(PPA) [WW205]		DS (GVB)	LUNCH BREAK	EM-III (SS)	DMS (MRM)	RECESS	CS (KAV) (321)	CS(KVA) (321)
	TY		APTI(SPP) (321)	APTI(SPP) (321)	NM (VS)		T1:MP(YKS) [WW207] T2:SEL(GVB) [WW204] T3:DSL(MSY) [WW205]			TOC (MRM)	T1:SL(WW206) T2:MP(YKS) [WW T3:SL [WW204]
TUES	SY		S1:OOP(PPA) [WW206] S2:DSL(WSA) [WW204] S3:SEMI(MRM) [WW307]		DMS (MRM)		S1:SEMI(MRM) [WW307] S2:OOP(PPA) [WW206] S3:DSL(WSA) [WW204]			APTI (321)	APTI (321)
	TY		BC (AK)	TOC (MRM)	SE (GVB)		NM (VS)	DB (MSY)		CS(KAV) (321)	CS(KAV) (321)
WED (SAT)	SY		CAO (MS)	CAO (MS)	DS (GVB)		EM-III (SS)	OOP (PPA)		C2C (AK) (321)	C2C (AK) (321)
	TY		TPO(PPA) (321)	TPO(PPA) (321)	DB (MSY)		SE (GVB)	TOC (MRM)		T1:MP(YKS) [WW205] T2:MP(YKS) [WW206] T3:MP(YKS) [WW-204]	
THUR	SY		CAO (MS)	CAO (MS)	DS (GVB)		S1:SEMI(MSY) [WW206] S2:SEMI(MSY) [WW205] S3:SEMI(MRM) [WW204]			EM-III (SS)	OOP (PPA)
	TY		T1:SEL(GVB) [WW206] T2:DB(MSY) [WW205] T3:MP(GVB) [WW307]		DB (MSY)		NM (VS)	SE(T) (GVB)		C2C (AK) (321)	C2C (AK) (321)
FRI	SY		TPO(PPA) (321)	TPO(PPA) (321)	DS (GVB)		DMS (MRM)	EM-III (SS)		OOP (PPA)	DMS (MRM)
	TY		TOC (MRM)	DB (MSY)	BC (AK)		T1:DB(MSY) [WW205] T2:MP(YKS) [WW307] T3:SE (GVB) [WW204]			SE (GVB)	BC (AK)

1. Prof.Manali Shah(MS): CAO
2. Mr. Suraj Natawade(SN) : DLS
3. Mrs. Rajani Mandhare(MRM) : DMS
4. Ms. Samina Mulla(MSY) : DB
5. Mr. Pranav Pathak.(PPA) : OOP
6. Mr. Gujar V.B.(GVB) : SE
7. Mr. Abhay Kale(AK): BC
8. Mr. Vidya Salunkhe(VS) :NM
9. Ms.Shinde Swapna(SS):EMIII
10. Mr.Kambale Ankur(AK):CS
11. Mr. Patil S.P.(SPP) APTI

AMC H.o.D Principal

Figure 5.5.7 a CSE Department Time Table Odd Semester 2022-23



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TIME - TABLE

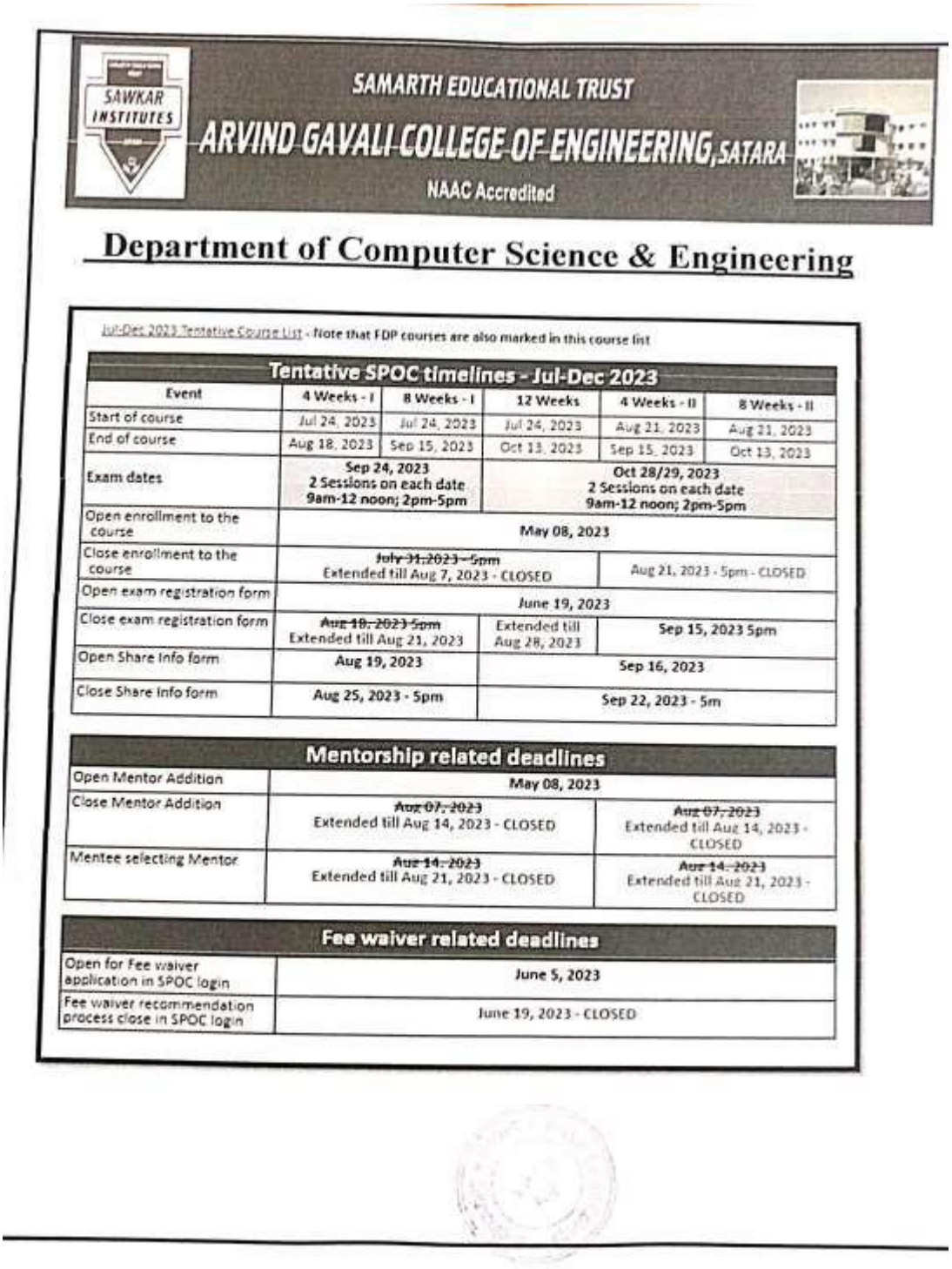
Academic Year 2022-23(EVEN SEM)

DAY	TIME CLASS		09:30 - 10:25	10:25-11:25	11:25-12:15	12:15-01:10	01:00 - 01:55	1:55-2:50	2:50-03:10	03:10-04:05	04:05 - 05:00
MON	SY (201)		APTI (WW321)	APTI (WW321)	PTRP [MSY]		OS [GVB]	DAA [MRM]		S1-OS[GVB](WW205) S2-Sem-II[MSY](WW204) S3-PPL[PPA](WW-206)	
	TY (203)		IOT [SMM]	IOT [SMM]	CN [PPA]		Sport (CVV)			CD [MRM]	EDS [KAA]
	Btech (202)		Ele-XII[GVB	Ele-XI[PPA]	Project/Intenship		PROJECT/INTERNSHIP			PROJECT/INTERNSHIP	
TUES	SY (201)		DLDM [SMM]	DLDM [SMM]	OS&PP [PPA/GVB]		S1-PPL[PPA](WW206) S2-OS[GVB](WW-205) S3-SemII[SMM](WW204)			OS [GVB]	OS [GVB]
	TY (203)		C2C [WW321]	C2C [WW321]	CN [PPA]		CD [MRM]	CD [MRM]		T1-ML[MSY](WW-206) T2-MP[PPA](WW-205) T3-CP[MRM](WW-204)	
	Btech (202)		Ele-XII[GVB]	Ele-XI [PPA]	Project/Intenship		PROJECT/INTERNSHIP			PROJECT/INTERNSHIP	
WED	SY (201)		BHR (DDC)		PTRP [MSY]		TPO (WW321)	TPO (WW321)		S1-Sem-II[MRM](WW204) S2-PPL[PPA](WW-206) S3-OS[GVB](WW-205)	
	TY (203)		CP-II [MRM]	IOT [SMM]	CD [MRM]	LUNCH BREAK	T1-MP[GVB](WW-205) T2-MP[MRM](WW-204) T3-MP[MSY](WW-206)		RECESS	ML [MSY]	EDS [KAA]
	Btech (202)		Ele-XII[GVB	Ele-XI[PPA]	Project/Intenship		PROJECT/INTERNSHIP			PROJECT/INTERNSHIP	
THUR	SY (201)		DLDM [SMM]	DLDM [SMM]	DAA [MRM]		C2C [WW321]	C2C [WW321]		DAA [MRM]	OS [GVB]
	TY (203)		APTI (WW321)	APTI (WW321)	ML [MSY]		T1-MP[PPA](WW-205) T2-CP[MRM](WW-204) T3-ML[MSY](WW-206)			ML [MSY]	CN [PPA]
	Btech (202)		PROJECT/INTERNSHIP				PROJECT/INTERNSHIP			PROJECT/INTERNSHIP	
FRI	SY (201)		BHR (DDC)	S1-semII[MRM](WW206) S2-SemII[MSY](WW205) S3-SemII[SMM](WW204)			DAA [MRM]	PTRP [MSY]		Sport (CVV)	
	TY (203)		ML [MSY]	EDS [KAA]	CN [PPA]		TPO (WW321)	TPO (WW321)		T1-CP[MRM](WW-204) T2-ML[MSY](WW-206) T3-MP[GVB](WW-205)	
	Btech (202)		PROJECT/INTERNSHIP		Project/Intenship		PROJECT/INTERNSHIP			PROJECT/INTERNSHIP	

1. Prof.Manali Shah(MS): DLDM, IOT
2. Mr. Vijay Gujar(GVB) : OS
3. Mrs. Rajani Mandhare(MRM) : DAA,CD, CP-II,Seminar,Miniproject
4. Ms. Samina Mulla(MSY) :PTPR, ML, Seminar, Miniproject
5. Mr. Pranav Pathak.(PPA) : CN, Python, Miniproject, SN, TPO
6. Mrs Ashwini Sawant :Project
7. Mr. Patil S.P.(SPP):APTI

AMC Checked by H.o.D Principal

Figure 5.5.7 b CSE Department Time Table Even Semester 2022-23



SAWKAR INSTITUTES

SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

NAAC Accredited

Department of Computer Science & Engineering

Jul-Dec 2023 Tentative Course List - Note that FDP courses are also marked in this course list

Tentative SPOC timelines - Jul-Dec 2023

Event	4 Weeks - I	8 Weeks - I	12 Weeks	4 Weeks - II	8 Weeks - II
Start of course	Jul 24, 2023	Jul 24, 2023	Jul 24, 2023	Aug 21, 2023	Aug 21, 2023
End of course	Aug 18, 2023	Sep 15, 2023	Oct 13, 2023	Sep 15, 2023	Oct 13, 2023
Exam dates	Sep 24, 2023 2 Sessions on each date 9am-12 noon; 2pm-5pm		Oct 28/29, 2023 2 Sessions on each date 9am-12 noon; 2pm-5pm		
Open enrollment to the course	May 08, 2023				
Close enrollment to the course	~~July 31,2023 - 5pm~~ Extended till Aug 7, 2023 - CLOSED			Aug 21, 2023 - 5pm - CLOSED	
Open exam registration form	June 19, 2023				
Close exam registration form	~~Aug 18, 2023 5pm~~ Extended till Aug 21, 2023		Extended till Aug 28, 2023	Sep 15, 2023 5pm	
Open Share Info form	Aug 19, 2023		Sep 16, 2023		
Close Share Info form	Aug 25, 2023 - 5pm		Sep 22, 2023 - 5m		

Mentorship related deadlines

Open Mentor Addition	May 08, 2023	
Close Mentor Addition	~~Aug 07, 2023~~ Extended till Aug 14, 2023 - CLOSED	~~Aug 07, 2023~~ Extended till Aug 14, 2023 - CLOSED
Mentee selecting Mentor	~~Aug 14, 2023~~ Extended till Aug 21, 2023 - CLOSED	~~Aug 14, 2023~~ Extended till Aug 21, 2023 - CLOSED

Fee waiver related deadlines

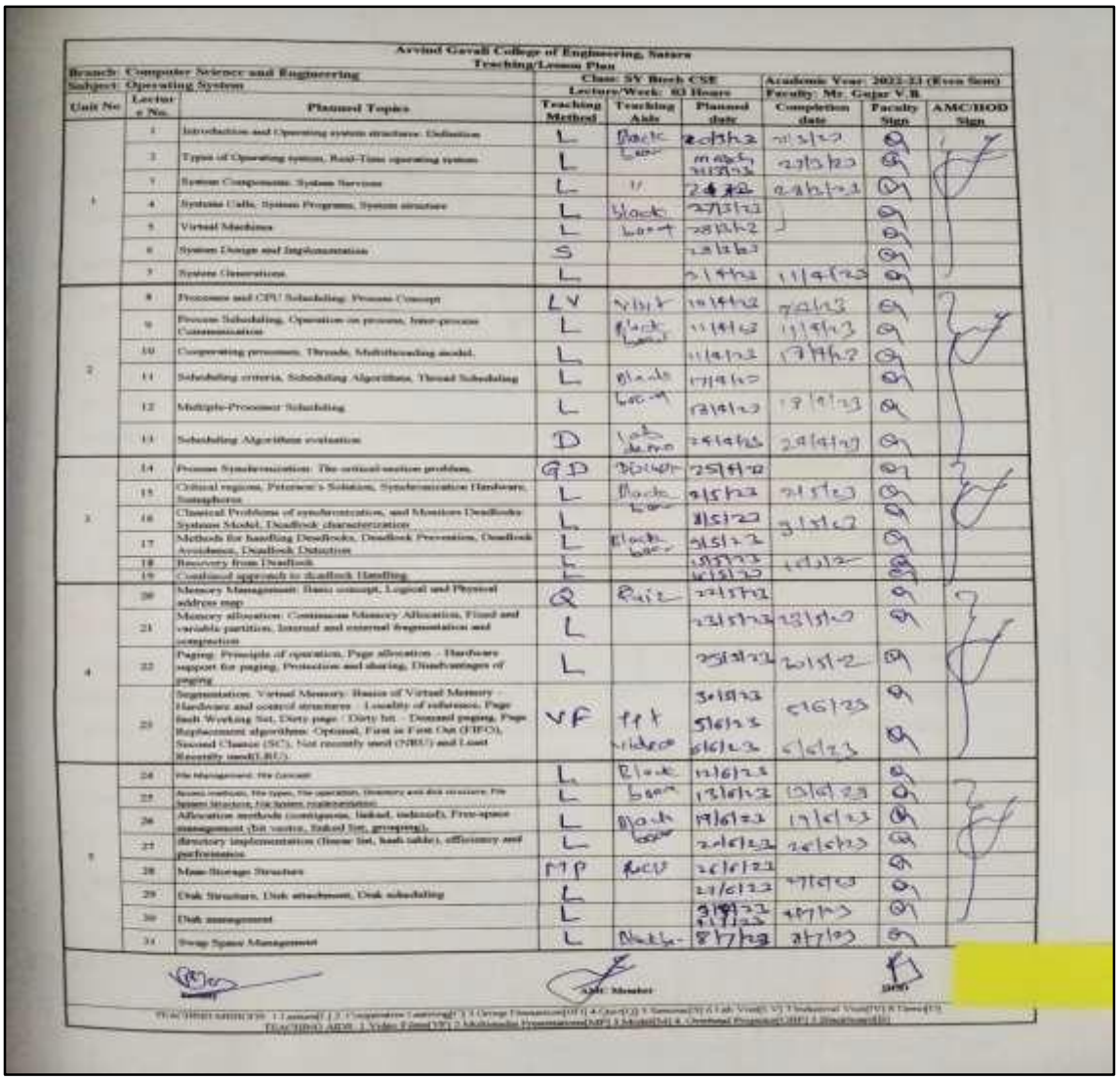
Open for Fee waiver application in SPOC login	June 5, 2023
Fee waiver recommendation process close in SPOC login	June 19, 2023 - CLOSED

Figure 5.5.8 NPTEL Academic calendar display on college website

The timetable for the weekly lectures and practical's is made available to the students well in advance and displayed on the department notice boards. Course syllabus is displayed and made available to the students via posts on the student Whatsapp groups.

- **Lesson Plan:**

The lesson plan for the individual subject is prepared by the individual teacher, approved by the HoD and the corresponding Academic Monitoring Committee member of that department. The lesson plan is then conveyed to the students via MOODLE. This allows the students to understand the course structure.



Arvind Gavali College of Engineering, Satara
Teaching/Lesson Plan

Branch: Computer Science and Engineering | Class: SY Btech CSE | Academic Year: 2022-23 (Even Sem)
Subject: Operating System | Lectures/Week: 03 Hours | Faculty: Mr. Gujar V.B.

Unit No	Lecture No.	Planned Topics	Teaching Method	Teaching Aids	Planned date	Completion date	Faculty Sign	AMC/HOD Sign
1	1	Introduction and Operating system structure: Definition	L	Black	20/1/23	21/1/23		
	2	Types of Operating system, Real-Time operating system	L		23/1/23	23/1/23		
	3	System Components: System Services	L		24/1/23	24/1/23		
	4	Systems Calls, System Programs, System structure	L	Black	27/1/23			
	5	Virtual Machines	L	Board	28/1/23			
	6	System Design and Implementation	S		2/2/23			
	7	System Generation	L		3/2/23	11/2/23		
2	8	Processes and CPU Scheduling: Process Concept	LV	Video	10/2/23	9/2/23		
	9	Process Scheduling, Operation on process, Inter-process Communication	L	Black Board	11/2/23	11/2/23		
	10	Cooperating processes, Threads, Multithreading model.	L		11/2/23	17/2/23		
	11	Scheduling criteria, Scheduling Algorithms, Thread Scheduling	L	Black	17/2/23			
	12	Multiple-Processor Scheduling	L	Board	18/2/23	18/2/23		
	13	Scheduling Algorithm evaluation	D	Lab demo	24/2/23	24/2/23		
3	14	Process Synchronization: The critical-section problem,	GD	Board	25/2/23			
	15	Critical regions, Peterson's Solution, Synchronization Hardware, Semaphores	L	Black Board	3/3/23	3/3/23		
	16	Classical Problems of synchronization, and Monitors Deadlocks: System Model, Deadlock characterization	L		4/3/23	4/3/23		
	17	Methods for handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection	L	Black Board	5/3/23			
	18	Recovery from Deadlock	L		10/3/23	10/3/23		
	19	Combined approach to deadlock Handling	L		11/3/23			
4	20	Memory Management: Basic concept, Logical and Physical address map	Q	Quiz	27/3/23			
	21	Memory allocation: Contiguous Memory Allocation, Fixed and variable partition, Internal and external fragmentation and compaction	L		23/3/23	23/3/23		
	22	Paging: Principle of operation, Page allocation – Hardware support for paging, Protection and sharing, Disadvantages of paging	L		25/3/23	30/3/23		
	23	Segmentation, Virtual Memory: Basics of Virtual Memory – Hardware and control structures – Locality of reference, Page fault, Working Set, Dirty page / Dirty bit – Demand paging, Page Replacement algorithms: Optimal, First in First Out (FIFO), Second Chance (SC), Not recently used (NRU) and Least Recently used (LRU).	VF	PPT Video	30/3/23 5/6/23 5/6/23	5/6/23 5/6/23		
5	24	File Management: File Concept	L	Black	12/6/23			
	25	Access methods, File types, File operation, Directory and disk structure, File System structure, File system implementation	L	Board	13/6/23	13/6/23		
	26	Allocation methods (contiguous, linked, indexed), Free-space management (bit vector, linked list, grouping),	L	Black Board	19/6/23	19/6/23		
	27	directory implementation (linear list, hash table), efficiency and performance.	L		20/6/23	20/6/23		
	28	Mass-Storage Structure	MP	Excel	26/6/23			
	29	Disk Structure, Disk attachment, Disk scheduling	L		27/6/23	27/6/23		
	30	Disk management	L		3/7/23 4/7/23	4/7/23		
	31	Swap Space Management	L	Black	8/7/23	8/7/23		

Faculty | Subject Teacher | HOD

Figure 5.5.9 Teaching plan

The innovative methods employed by the faculty members help the students to get actively involved in the classroom.

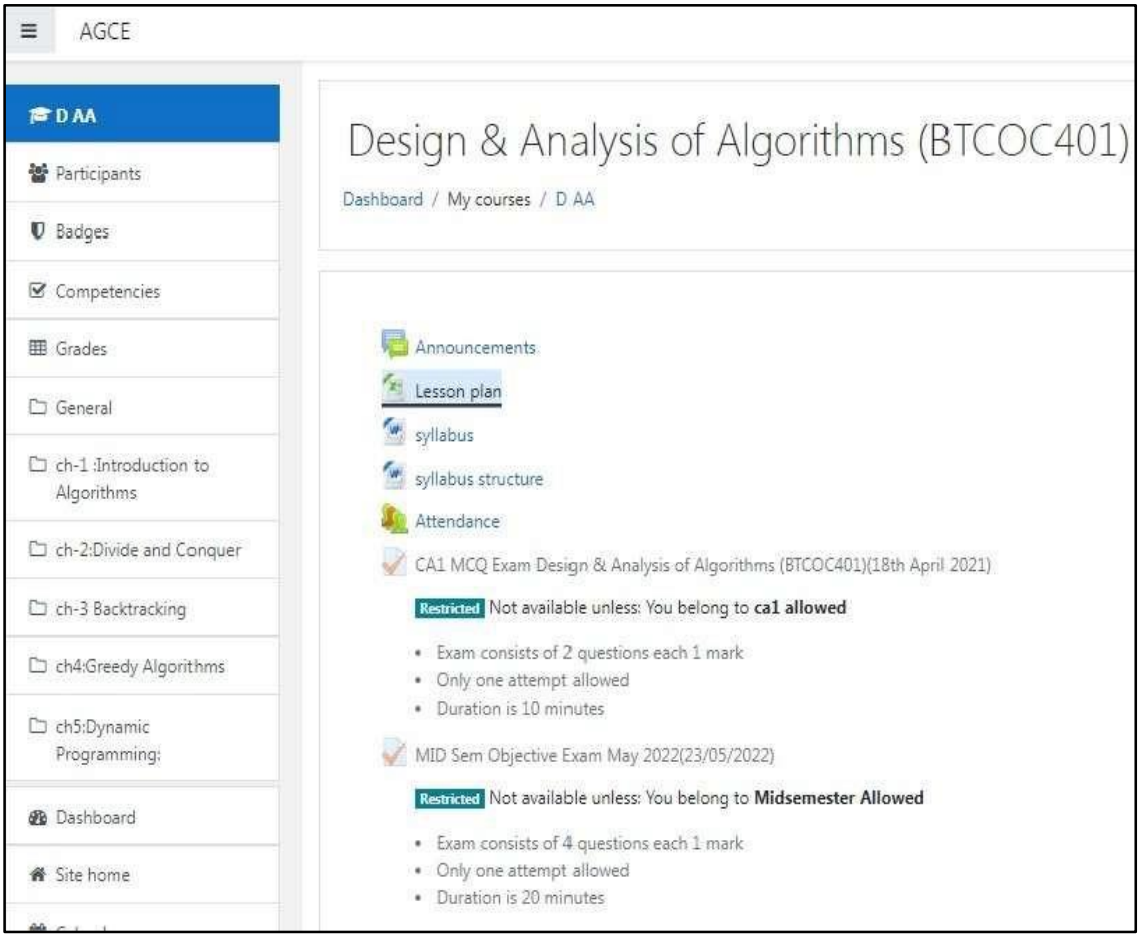


Figure 5.5.10 Lesson plan uploaded on Moodle DAA subject SYCSE

- **Courses offered by Dept. :**

College organized for skill development and technical proficiency. The three-week internship is called "YUGAM" and is conducted during the month of November which is also the vacation period of the odd semester. The department offers this internship in the areas of Internet of Things (IoT), Artificial Intelligence (AI), and Web Design. Experts from the industry are invited to conduct the course and also give hands-on training to the students.

Five days Hands-on Workshop on Web Designing and Development using HTML, CSS, PHP, JavaScript and MySQL

<u>About Program</u>:

Three days Hands-on Workshop on Web Designing and Development using HTML, CSS,PHP, JavaScript and MySQL is conducted from Wednesday, 14th June 2023 to Monday, 19th June2023, by the Computer Science and Engineering Department in association with The Code Culture.

Figure 5.5.11 Inauguration of the workshop by Mr.Nikhil Kamble Software Developer at Code Culture.

Figure 5.5.12 Interaction with Students by Mr.Nikhil Kamble Software Developer at Code Culture

Figure 5.5.13 Pamphlet of YUGAM 2020

- **Open Book Tests:**

To improve the analytical skills of the students, open book tests are conducted by the individual faculty member.

- **Use of Interactive Boards:**

The faculty members of the department are encouraged to conduct lectures using smart boards. This enables a more vivid representation of the concept by the incorporation of videos to simplify the concepts

.

Figure 5.5.14 Faculty using Interactive Panels for conducting lecture

- **Industrial Visits**

Industrial visits are carried out to bridge the gap between institute and industry, students are able to know the current scerenio in industry and industry oriented problems, skills required in industries etc. to take students aware of current advances and requirements in the industry

Figure 5.5.15 a Industrial Visit to Nebula Technologies, Pune, for TYCSE

Figure 5.5.15 b Industry Visit IIT Bomaby Techfest 2022

- **Quiz**

Faculty members conduct quiz based on objective questions to assess the understanding of concepts by the students. The quiz is conducted using MOODLE platform. Objective Multiple-Choice Questions (MCQs) formulated using Bloom's taxonomy as a tool is employed in the quiz.

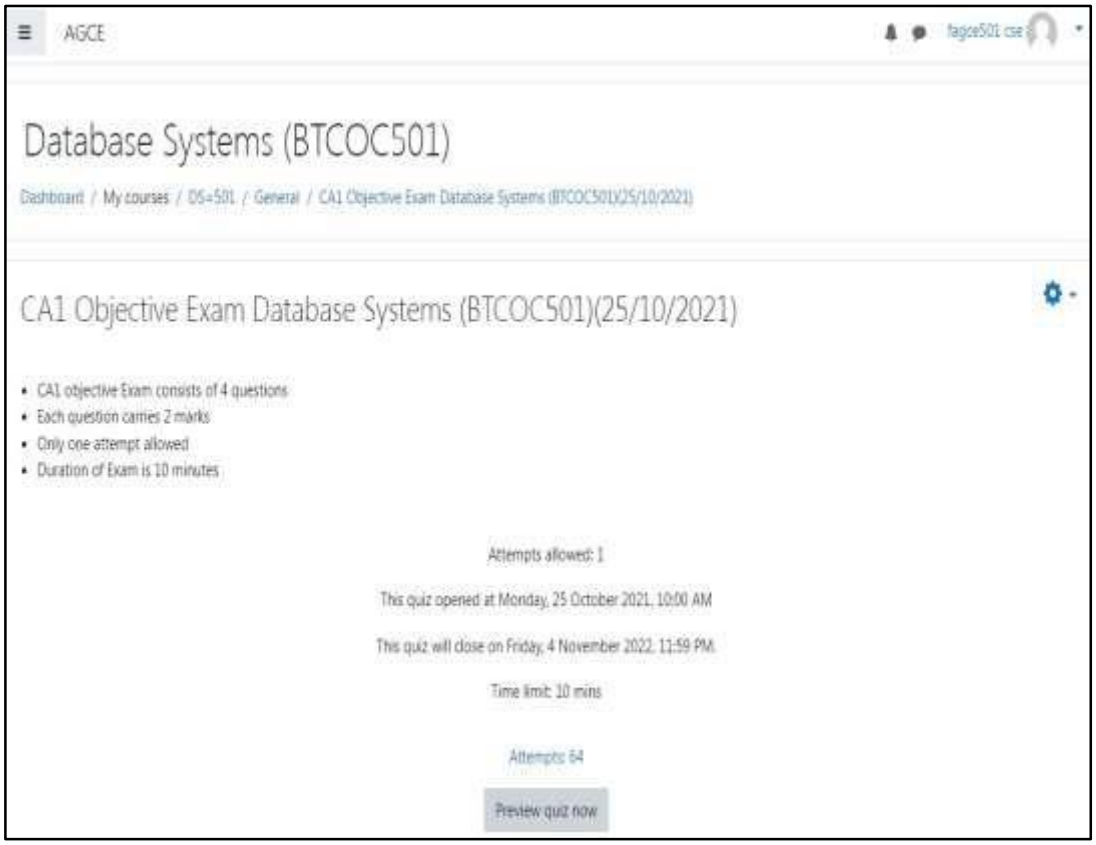


Figure 5.5.16 Quiz uploaded on Moodle of subject Database System TYCSE

- **NPTEL Courses:**

Students are encouraged to enrol for National Programme on Technology Enhanced Learning,The efforts of the SPOC for NPTEL courses have been appreciated by IIT Bombay.

Students are encouraged to enrol for National Programme on Technology Enhanced Learning (NPTEL) and Massive Open Online Course (MOOC) courses to enhance self-learning. These courses are further incorporated in the syllabus itself by the university.
The efforts of the SPOC, Ms. Samina Y. Mulla for NPTEL courses have been appreciated by IIT Bombay.

Table 1. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (CSE) for 2022 – 23

Sr. No.	Timeline	Year	Courses Chosen by the Students
1	2022 – 2023 Odd Semester	TY B.Tech (CSE)	1. Introduction to Internet of Things
2	2022 – 2023 Odd Semester	Final Year B.Tech (CSE)	1. Introduction to Industrial IoT
3	2022 – 2023 Even Semester	TY B.Tech (CSE)	1. An Introduction to Artificial Intelligence
4	2022 – 2023 Even Semester	Final Year B.Tech (CSE)	1. AI Constraint Satisfaction 2. Basic Course in Ornithology 3. Cloud Computing and Distributed Systems 4. Computer Vision and Image Processing Fundamentals and Applications 5. Enhancing Soft Skills and Personality 6. Ethical Hacking 7. Introduction to Programming in C

Table 2. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (CSE) for 2021 – 22

Sr. No.	Timeline	Year	Courses Chosen by the Students
1	2021 – 2022 Odd Semester	TY B.Tech (CSE)	1. Accreditation and Outcome Based Learning 2. Advanced Engineering Mathematics 3. Artificial Intelligence : Search Methods for Problem Solving 4. Basics of software defined Radios and Practical Applications 5. Introduction to Fuzzy Set Theory, Arithmetic and Logic
2	2021 – 2022 Odd Semester	Final Year B.Tech (CSE)	1. Analog Electronic Circuits 2. Artificial Intelligence : Search Methods for Problem Solving 3. C Programming and Assembly Language 4. Computer architecture and organization 5. Introduction to Fuzzy Set Theory, Arithmetic and Logic 6. Soft skills
3	2021 – 2022 Even Semester	TY B.Tech (CSE)	1. AI:Constraint Satisfaction 2. An Introduction to Artificial Intelligence
4	2021 – 2022 Even Semester	Final Year B.Tech (CSE)	1. Advanced Computer Architecture 2. AI:Constraint Satisfaction 3. An Introduction to Artificial Intelligence 4. Basic Course in Ornithology 5. Bioelectrochemistry 6. Cloud Computing and Distributed Systems 7. Communication Networks 8. Computer Vision and Image Processing Fundamentals and Applications 9. Enhancing Soft Skills and Personality 10. Ethical Hacking 11. Introduction To Programming In C 12. Leadership and Team Effectiveness 13. Soft Skill Development

Table 3. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (CSE) for 2020 – 21

Sr. No.	Timeline	Year	Courses Chosen by the Students
1	2020 – 2021 Odd Semester	TY B.Tech (CSE)	1. Machine Learning 2. Compiler Design 3. Internet of Things
2	2020 – 2021 Odd Semester	Final Year B.Tech (CSE)	1. Social Networks 2. Cryptography and Network Security
3	2020 – 2021 Even Semester	TY B.Tech (CSE)	1. Artificial Intelligence 2. Introduction to Internet of Things 3. The Joy of Computing using Python
4	2020 – 2021 Even Semester	Final Year B.Tech (CSE)	1. An Introduction to Information Theory 2. An Introduction to Programming through C++ 3. Analog Circuits 4. Artificial Intelligence: Knowledge Representation and Reasoning 5. Biomedical Signal Processing 6. Computer Vision and Image Processing - Fundamentals and Applications 7. Cryptography and Network Security 8. Current regulatory requirements for conducting clinical trials in India for investigational new drugs/new drug (Version 3.0) 9. Data Science for Engineers 10. Digital IC Design 11. Enhancing Soft Skills and Personality 12. Industrial Automation and Control 13. Introduction to Industry 4.0 and Industrial Internet of Things 14. Introduction to Internet of Things 15. Sensors and Actuators

Table 4. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (CSE) for 2019 – 20

Sr. No.	**Timeline**	Year	**Courses Chosen by the Students**
1	2019 – 2020	TY B.Tech (CSE)	1. Python for Data Science 2. Antennas 3. Introduction to Internet of Things 4. Principles of Communication Systems – I 5. Cloud Computing 6. Advance Power Electronics and Control 7. Understanding Design Thinking & People Centred Design 8. German – I 9. Programming, Data Structures and Algorithms Using Python 10. Microprocessors and Interfacing 11. Data Analytics Using Python
2	2019 – 2020	Final Year B.Tech (CSE)	1. Python for Data Science 2. Antennas 3. Speaking Effectively 4. Introduction to Internet of Things 5. Introduction to Industry 4.0 and Industrial Internet of Things 6. The Joy of Computing Using Python 7. An Introduction to Artificial Intelligence 8. Google Cloud Computing Foundation Course 9. Principles of Communication Systems – I 10. Digital Electronic Circuits
3	2019 – 2020	TY B.Tech (CSE)	1. Analog Communication 2. Digital Signal Processing 3. Programming, Data Structures and Algorithms Using Python 4. Introduction to Internet of Things 5. Python for Data Science 6. Database Management System 7. Programming in C++
4	2019 – 2020	Final Year B.Tech (CSE)	1. Python for Data Science

Figure 5.5.17 Certificate of Appreciation to Ms. Samina Y. Mulla for her role as SPOC for the SWAYAM-NPTEL Chapter

NPTEL Certificate to Mr. Pathak P.A.

NPTEL Courses Completed by Faculty

Sr. No.	Name of the Faculty Member	Certification	Course	Academic Year
1	Mrs Sawant A.P.	NPTEL	IoT	2018-2019
2	Mrs Sawant A.P.	NPTEL	Accreditation and Outcome based Learning – Online	2019 – 2020
3	Dr Bhosale V. K	NPTEL	Accreditation and Outcome based Learning – Online	2019 – 2020
4	Mrs Mandhare R.M.	NPTEL	Accreditation and Outcome based Learning – Online	2019 – 2020
5	Mrs Mandhare R.M.	NPTEL	Compiler Design	2019 – 2020
6	Mrs Mandhare R.M.	Coursera	Machine learning for all	2020 – 2021
7	Ms Mulla S.Y	NPTEL	SPOC	2019-2020
8	Mr. Pathak P.A.	NPTEL	Social Networks	2022 - 2023
9	Mrs Mandhare R.M.	NPTEL	Research Methodlogy	2023-24
10	Mrs Mandhare R.M.	NPTEL	Introduction to machine learning	2023-24

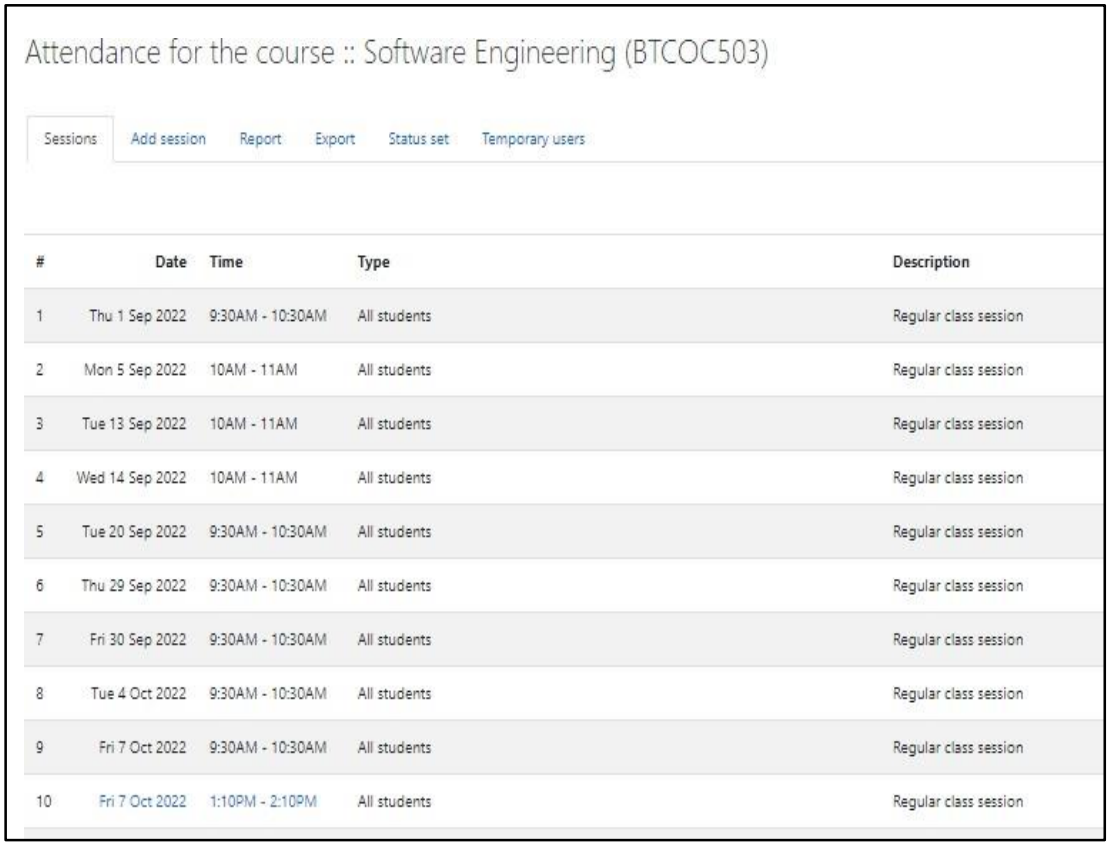
- **Detailed Course Contents (Notes/PPTs, etc.):**

Reference books, notes, PowerPoint presentations, videos explaining concepts are uploaded by the faculty on MOODLE platform and made available to the enrolled students. Along with these, links to NPTEL course material are also provided on moodle.

Figure 5.5.18 MOODLE containing course material of subject Database Systems.

- **Attendance:**

Attendance is maintained on MOODLE and in hard copy form by the respective faculty members of the department. The department has the unique Guardian Faculty Mentor Scheme (GFM), under which fifteen students are assigned to a faculty member of the department. The GFM is responsible for counseling the students who have poor attendance, collecting feedback from the students for a difficult subject.



Attendance for the course :: Software Engineering (BTCOC503)

Sessions | Add session | Report | Export | Status set | Temporary users

#	Date	Time	Type	Description
1	Thu 1 Sep 2022	9:30AM - 10:30AM	All students	Regular class session
2	Mon 5 Sep 2022	10AM - 11AM	All students	Regular class session
3	Tue 13 Sep 2022	10AM - 11AM	All students	Regular class session
4	Wed 14 Sep 2022	10AM - 11AM	All students	Regular class session
5	Tue 20 Sep 2022	9:30AM - 10:30AM	All students	Regular class session
6	Thu 29 Sep 2022	9:30AM - 10:30AM	All students	Regular class session
7	Fri 30 Sep 2022	9:30AM - 10:30AM	All students	Regular class session
8	Tue 4 Oct 2022	9:30AM - 10:30AM	All students	Regular class session
9	Fri 7 Oct 2022	9:30AM - 10:30AM	All students	Regular class session
10	Fri 7 Oct 2022	1:10PM - 2:10PM	All students	Regular class session

Figure 5.5.19 Attendance of subject Software Engineering TYCSE

- Project-based and Self-learning: Students are encouraged to group in various domains such as Internet of Things, Artificial Intelligence, Compiler Design, Discrete Mathematics ,Data Structure etc. and work in the development of projects in that domain. Emphasis is given on industry-based projects, innovative ideas, and research-paper based project.

Samarth Educational Trust
Arvind Gavali College of Engineering, Satara
Project Batch
BTech Final Year CSE
Academic Year 2022 - 2023, Even Semester

Sr. No.	PRN	Name of the Project Group Members	Title of the Project	Domain	Guide
1	1965451242040	Rahulkumar Varma	Custom named entity recognition using spacy	AI	Mr. Gujar V. B.
2	1965451242041	Sanket Sunil Jambure	Medicine donation software	Web Development	Mrs. Mandhare R. M.
	1965451612088	Shriyash Shashikant Jadhav (Mech)			
	1965451242045	Akanksha Gajanan kadam			
	1965451245055	Shivani sunil jambhale			
	1965451242020	Pandurang Vijay Mohite			
3	1965451242066	Rutwik Sayajirao Patil	Human activity and face recognition using machine learning and deep learning model	AI	Miss. Mulla S. Y.
	1965451242046	Amruta Vyankat Chavan			
	1965451242064	Tejaswini Santosh Pawar			
	2065451242012	Anjali Shivaji Chavan			
4	1965451242036	Trupti Dadaso Ghutukade	Inventory management system	Android Development	Mrs. Mandhare R. M.
	1965451242002	Rutuja Rajendra Deshmukh			
	1965451242006	Rohan Rajendra Nagane			
	1965451242043	Harshal Bhimrao Waghmode			
5	1965451242056	Rashmi Sadashiv Devkar	Real Time Face Mask Detection	AI	Dr. Manali Shah
	1965451242057	Pallavi Bharat Gujare			
	1965451242054	Vedanika Hanmant Gurav			
	1965451242011	Vaishnavi Gorakh Phadatare			
6	2065451242024	Vinayak Jayawant Waghmare	dengu maleriya prediction using cnn	AI	Mr. Gujar V. B.
	2065451242007	Snehal Sarjerao Kamble			
	1965451242037	Dipali Aba Gonjari			
7	1965451242059	Sukanya Pandekar	women security system	AI	Miss. Mulla S. Y.
	1965451242039	Pradnya Kadam			
	2065451242015	Manali Devkar			
	2065451242014	Priyanka Patil			
8	1965451242062	Suyog Nikam	RTO Service Management	Web Development	Mrs. Mandhare R. M.
	1965451242044	Prajwal Sawant			
	1965451242052	Priti Chavan			
	1965451242049	Sayali Chavan			
9	2065451242021	Utkarsha Jadhav	Real estate search based on data mining.	Web Development	Mr. Pathak P. A.
	2065451242010	Mayuri Magar			
	2065451242013	Hina Syyand			
	2065451242019	Mayuri vibhute			
10	1965451242004	Priyanka Bhosale	Product recommendation system	Web Development	Mr. Pathak P. A.
	1965451242038	Rutuja Hable			
	1965451242048	Shradha Tarade			
11	1965451242063	Kishori Rajmane	Personal health care	Web Development	Mr. Gujar V. B.
	1965451242009	Rutuja Jadhav			
	1965451242019	Vinita Lad			
	1965451242061	Priyanka Gaikwad			

12	2065451242004	Aishwarya Prakash Kadam	Voice Vault Using Python	AI	Dr. Manali Shah
	1965451242050	Prasanna Dattatray Nikam			
	1965451242018	Shivlal Arun Yadav			
	2065451242005	Amol Prakash Barge			
13	1965451242015	shrutika vaibhav bhosale	computer vision based virtual Mouse system	AI and Web Development	Dr. Manali Shah
	2065451242009	avnti jitendra sutar			
	2065451242008	Shivani Ramesh pawar			
	2065451242011	pratiksha jagannath kadam			
14	1965451242012	Rupali Manohar Mulik	Detection of plant leaf diseases detection using CNN	AI	Mr. Gujar V. B.
	1965451242060	Sakshi Duryodhan Pawar			
	1965451242034	Madhuri Sambhaji Bhosale			
	1965451242051	Sapna Hanmant Jadhav			
15	2065451242016	Pravin Chandrakant Mahoor	Sign Language Recognition using Machine Learning	AI	Miss. Mulla S. Y.
	1965451242065	Harshal Subhash Deshmukh			
	1965451242010	Adesh Yuvraj Gole			
	1965451242042	Tushar Sarjerao Lohar			
16	1965451242035	Bhagyashri Sunil Yadav	E-Learning Management System	Web Development	Mr. Pathak P. A.
	1965451242058	Divya Ananda Yadav			
17	2065451242017	Akash Dattatray Bhojane	Online Task management system	Web Development	Mr. Pathak P. A.
	1965451242007	Prajwal Tulshidas Wagh			
	1965451242047	Swaraj Bipinchandra Surve			
18	1965451242053	Utkarsha Vijay Bagal	Clinical Report Extraction using NLP	AI	Miss. Mulla S. Y.
	1965451242003	Bhosale Amruta			
	2065451242018	Mohite Vinanti Shantaram			
	2065451242020	Ballal Kajal Rajendra			
19	2065451242022	Aniket Salunkhe	Cotton leaf prediction using cnn	AI	Mrs. Mandhare R. M.
	2065451242023	Mukesh Jangid			
	2065451242006	Pranav Aughade			

Figure 5.5.20 Final Year Project List for the Academic Year 2022 – 2023

		h FAiu lfliWill ,\nW 1,u,-aliCdl,!t' llin llltd1JnnnHmrC ¯ ,lmrlnni, l' f f l U ii.2J1u f.•tn-IllY,		
II,	Nnrnt"t.ifilK llrouL' I	'1111<JI illcL'ro;rll	Un	N■mrllflflrG- •
J	Sli1Tj1r1tl Par.ii l't,Jjij[..1ru,JIJI ,\n Mull	\lbi;i,djuiXJII· nli:em!M -, Jl, ki'..tl!uil.ruli,, ;:t□m.r ctn IQ.I 5ltllli(il1 n_.1111J OF.! ll!rcl,fltt -.isk&t!!t11,m.	Al	i¼ut.li'::itiilll'.
1.	,\l,lmlllJuilh 1 Shrnfftlhal\!lrnllnr 'l'md\!lr	l111a ,'-'1l 'llllllil11nrn j1,:l fli 111n ""'- \ -lurl	Al	N lulln .\",
3,	"1,rry;i.,l,,q,..,,..rii, lfarmM.uola l iilnt'ha- '\'llhrnlt.a&.B	nlinrl' r1aw:lr p,i,rl	\\ IJI tllll'!II\TII	\ml,11\!L •,
41	J<mlklliln.ilm! !i 1111111;pllrn!!:un: l!.Jl'5Alld IIWl Tlie-	IK-ln'i •'11111 ffl s •Fi> ul ,u(ii	W h II l1111P11!d	rr-t('fO lli) I'
.!l	J'rja!;,rlnlIIhl'sc J\ lil:J;l;b D-.llttllloili ltil\'a!lll lll,}11,\lia, •	ti'.uli.: llilL111(111m WHI	ebIIM pnm	l"ritl.i'dbal;I'.\,
"	W\l1•11 lli1\1,11.lrl SlrnMlrrniSllrrni /\ Swrub1,li•	111 [ll F.: nF.\:,blllm:	\I	ProrL lanrllma:
	v l!I !ihil1ll1w1tU.'. li!!!ilMJilll S Ulillllll (ial:,rlld	IW!il tk•nl'1r	\IJ1_1T	Ptul. Mor1!lhnn.I-L\'f,
lll	!'aJ!.inll K '!'il Sl!i!i!lc 1111-:i • • ¯ l'mlik& !hlKllc	'1nulrH1111r1r.ditiil!ll ""'" r r n	ti	i'ruf.MnJ11U1P kl\'I.
"	1ih1rillmlSkjlr.al anlil.lh'"1llll SounlM-l 'K-MJrffi!Jl!	Rlliklln llllril ,• lnllnllllllirll	\I	Vn!l,M□lln .\',

10	Kamble Suraj Anande Mahesh Korade Shubham Pisal Kaustubh	Social Media Web Application	Web Development	Prof. Pathak P.A.
11	Vishakha Ghadge Vaishanavi Pisal Prachi Sable Megha Ghadge	Text Summarization with AI	AI	Prof.Mulla S.Y.
12	Ashwini Sayaji More Gauri Mohan Pawar Kiran Suryakant Yadav Shubhangi Uttam More	IoT-Based Smart Irrigation System to Provide Ideal Condition for Crops	IoT	Prof.Gujar V.B.
13	Attar Sujan Swapnali Borate Komal Hivarkar Supriya Sul	Student Grivenvnce	Web Development	Prof. Mandhare R.M.
14	Raksha Narayan Kulal Swapna Kishor Ghorpade Gore Monika Mohan Jadhav Nikita Rajendra	Facial Emotion Detection using Machine Learning.	AI	Prof.Mulla S.Y.
15	Kajal Nazarkar Pranita Patil Ankita Shendage Pranali Mahamni	Student Attendance Using Barcode Scan	AI	Prof. Mandhare R.M.
16	Pranita Tukaram Dalavi Muskan Shakil Dange Aarati Vilas Katkar	SPYDER BOT	AI	Prof.Mulla S.Y.
17	Anuradha Popat Patil	To Develop a web protrul displaying KD automation product details.	Web Development	Prof.Gujar V.B.

Figure 5.5.21 Final Year Project List for the Academic Year 2021 – 2022

Bt:e,ehC E Projed .Bat:ch Li 1.:W.20-21				
S:r. N11	am or lth Proj! cl -ro p 1e b	Ti f of the Proj . t	IJ:omnin	m ofm 11id
I.	S11priya Nai.llmt.le Saii:,:1zi P'..itcl Saloni K:mas.e Karn,i:m'la PmiJ	M, Denect" lii	1	E'rf. ndhar M.
2	Shiv:mii PatiJ Ponnam Vedpath,d; Pallilvi LDka:re Sm•ita i.Jikde	DeMc:lia,g: Pilif>hiog W •b:.ite lJ-irig Mac-hl n 1.eill'lliJJg	Al	rof. •1 ndharc R. M.
3	Puiliianku Mctkmi Tcjaswini K.oli Kirtl M:mdilarii Ruu1ji1 1:-\nlr' r Abih v Kshirsus;ar	011lincGrocery Mark I	d)Dc lopme.□l	roL PathakP.
4	Sw:nl S111dhir fagtnp H:ush.adi Pmrnocl Kshif!.i llL Ravimt Dipak. Kl.rve S:1yali Snrnna!.h Pawnr Somlli Dh,o1re	Web De cl ,pmcnl f PTMPL d•,erti ing.	eb l)e,;·elopnient	rof. 1th P. .
5	Tcjru;wi111iGnikwad halil.Nna Nik.am Plilumimll RmJt SnnaJi Malusarr:	c;iklh:r He.illli Ml)ll it.orlng f!ThfTra kmg	IT	Dr. 01,osalc .K
6	Sl1iv.mi Ul'l'lln,gJmre Niki111 Kanihlt! Ni n:•Wagti1111 M:mish:i Madre	Wehs ttc De, lopmcntfur Cun fr lio11 tie M 11 n nt	\ eb Davdopm1: nr	Prof_ Jadb::1v IIJ.
7	Ank:ita Chiw,m Pnnikshd Shing1.rje Nikila Gholfl) de Shmddh11 Shimrate	OJ11ine • 1M1m1:1 cmen1 Y,LI!TI)	Web De'r-elopme11l	Prof. J,dlm\' El.
	Sapna Maine Pooja P11war PnnikRn..rm_gaw,r,Le Mayrid Phadtare	Brain Tumor 11.1.,s.ifie ti n iug Deer Le mi11g Algor:lthmi.	l	Dr. Mi jkar G,.
9	PO(lja Bans.ode nbhata Gods:e Ai n\\'.!!rn! KPihawah.· ViLly.a P:!.rib.ar	AM ·l1in I..e-arning, M dd for Vcnue fu;plonilium.un<l Rl cCJmmend,Lti n	I	Dr. Mirnjkar G

10	Aniket Pawar Rohit Wagh Rutuja Dhanawade Payal Pardeshi	Chest X-Ray Abnormalities Detection	AI	Prof. Mulla S. Y.
11	Anushka Deshmukh Sneha Dugani Sakshi Chavan	Snake Bot	AI	Prof. Mulla S. Y.
12	Shruti Patil Poonam Gore Aarti Dhabugde Nikita Kadam	Campus Recruitment System	Web Development	Prof. Jadhav D. V.
13	Harshada Mane Archana Pawar Namrata Gujar Shruti Bhosale	Automatic Vehicle Accident Detection and Rescue System	IoT	Dr. Bhosale V. K.
14	Akash Kharat Akash Desai Digvijay Jangam Mansi Kadam	Smart Medicine Box + Healthcare	IoT	Dr. Bhosale V. K.
15	Chitranjali Kalane Rutuja Shinde Bhavana Kadam Shivani Yadav	Forest Fire Detection and Control	IoT	Prof. Barkade V. T.
16	Tushar Sonmale	Counting Number of People by Voice Recognition Using AI	AI	Prof. Mandhare R. M.
17	Shibham Kumbhar Viraj Pawar Amit Sawant Vinayak Mali	BMC Performance Monitoring System	Web Development	Prof. Pathak P. A.
18	Pratiksha Sutar Samiksha Vanjole Harshal Jadhav Pravin Gavade	Student Record System With Recruitment Update	Web Development	Prof. Pathak P. A.
19	Pratiksha Shirke Mayuri Shinde Shivani Dalvi Mayur Kumbhar	Attainment of CO-PO Through Exam Evaluation	Web Development	Prof. Pathak P. A.

Figure 5.5.22 Final Year Project List for the Academic Year 2020 – 2021

Arvind Gavali College of Engineering, Satara
BE CSE
Project Groups and Project Titles
AY-2019-20

Group No	Name of Students	Title	Domain	Guide
G1	Sharan Johijode Pratiksha Kadam Jyoti Mane Ashish Nalawade	Automatic Text Classification based on Machine Learning	AI	Dr. Bhosale V.K.
G2	Chavan Ankita Shivani Jadhav Dipti Zanjurne Komal Zanjurne Pooja Zanjurne	Customize Web Application for Sugar Factory.	Web Development	Mr. Pathak P.A.
G3	Aman Mulani Amrut Patange Nadim Kazi Sayali Gharge Poonam Beble	Smart Vehicle Parking System using IOT	IoT	Mrs. Sawant A.P.
G4	Shraddha Shinde Apeksha Shinde Komal Jadhav Rani Jadhav Seema Hingane	CRM Application for Online Buying & Selling Property	Web Development	Mrs. Sawant A.P.
G5	Sayali Sutar Puja Shinde Ruchali Pol Arati Sonawale Komal Pawar	GPS based Field Force Tracking System	AI	Dr. Bhosale V.K.
G6	Supriya Gujar Snehal Shinde Vijaya Shelar Ravina Salunkhe Sameer Bhosale	Customized Web Portal for Vehicle Insurance System.	Web Development	Mr. Jadhav D.V./ Mr. Mohite V.C.
G7	Aishwarya Bobade Aishwarya Mane Harsha Khot Nikita Navale Supriya Ghadge	Web Portal for Online Bike servicing	Web Development	Mr. Pathak P.A.
G8	Komal Kudale Rahul Lamje Shraddha Mane Sneha Mankar	Online Platform for Managing Advertising Agency Activities.	Web Development	Mrs. Mandhare R.M.
G9	Ritika Deshmukh Pooja Ithape Akshada Kudale	Digitalizing School Framework	Web Development	Ms. Gaikwad P.L.
G10	Priti Kharade Sumit Shinde	Recommendation Based Place Advisor System.	AI	Ms. Mulla S.Y.

Figure 5.5.23 Final Year Project List for the Academic Year 2019 – 2020

Figure 5.5.24 Faculty member conducting GFM Meeting with students

- **Assignments with Assessments:**

Assignments are given to the enrolled students by the faculty members. The students submit these assignments on MOODLE in an online form. The uploaded assignments are assessed by the faculty members and marks are given to them. These assignment marks are considered for internal termwork calculations.

- **Continuous Assessment Report:**

The continuous assessment report is generated based on the student attendance and the assessment grades defined by the faculty members

SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING

AGCE NAAC Accredited

Panmalewadi, Varye, Tal.& Dist.-Satara - 415 015

Approved by AICTE, New Delhi, Recognised by Govt. of Maharashtra, Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere

Continuous Assessment Sheet (CAS)

Name of Candidate: Manalim Gosavi Class & Department: Computer Science.

Roll No.: 2165451242012 Subject: Operating System.

Exp No.	Exp Name	Date of Conduction	Laboratory Assessment				
			Timely submission (02)	Neatness (04)	Understanding (04)	Total (10)	Faculty Sign with Date
1	Hands on unix commands	10/4	2	3	3	8	
2	Shell Programming for file Handling	24/04	2	4	3	9	
3	Shell Script programming using commands.	8/05	2	4	3	9	
4	Implementation of various CPU scheduling algo.	15/05	2	3	3	8	
5	Implementation of various page replacement algo.	22/05	2	4	3	9	
6	Concurrent Program use of thread processes system	29/05	2	3	3	8	
7	Studying Pthread and implement a program	5/06	2	4	4	10	
	CA1	Average marks of laboratory experiment (10)					
8	Improvement in using threads as compared with	12/06	2	3	4	9	
9	Hyper quick sort merge sort travelling	19/06	2	3	3	8	
10	Implementation of synchronization primitives	26/06	2	3	3	8	
11	Implementation of producer-consumer banker	26/06	2	4	3	9	
12	Implementation of various memory allocation	3/07	2	3	3	8	
13	Scheduling algorithm	3/07	2	4	3	9	
14	Kernel reconfiguration device drivers and system administration of OS	3/07	2	4	3	9	
	CA2	Average marks of laboratory experiment (10)					

	Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)
CA1	9	03	7	4	23
CA2	9	03	8	3	23

Student Sign. Faculty Sign.

. **Figure 5.5.25 Continuous assessment sheet of OS 2022-23**

- **Virtual Labs:**

Virtual Labs is a complete Learning Management System configured in accordance with COEP, Pune. Virtual Labs does not require any additional infrastructural setup for conducting experiments at user premises. The simulations-based experiments can be accessed remotely via the internet. The subject experiments were conducted in an online mode using Virtual Labs during the COVID-19 period so as to minimize the loss of students.

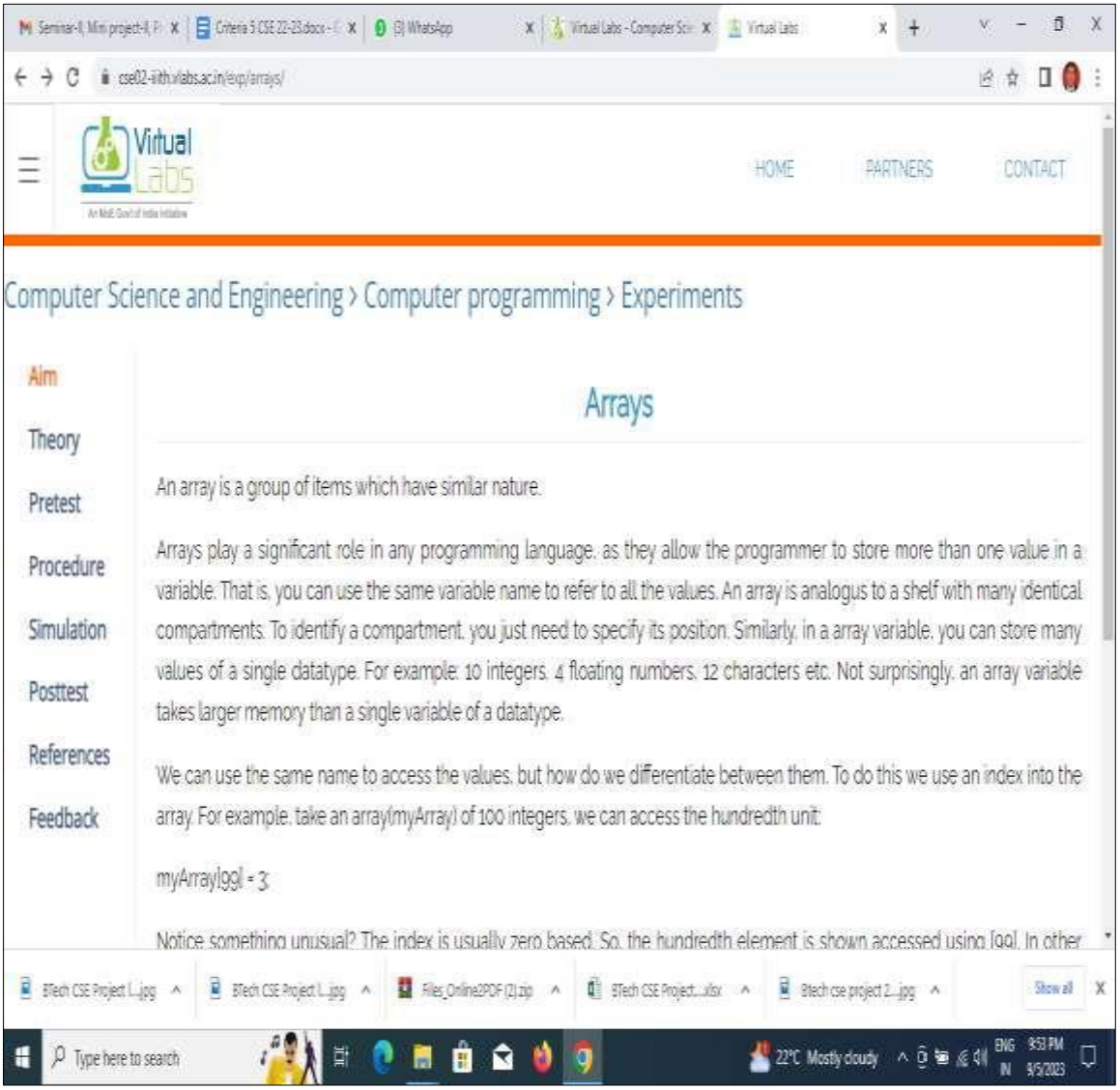


Figure 5.5.25a Screenshots of Experiment for Computer Programming conducted using the Virtual Labs Platform

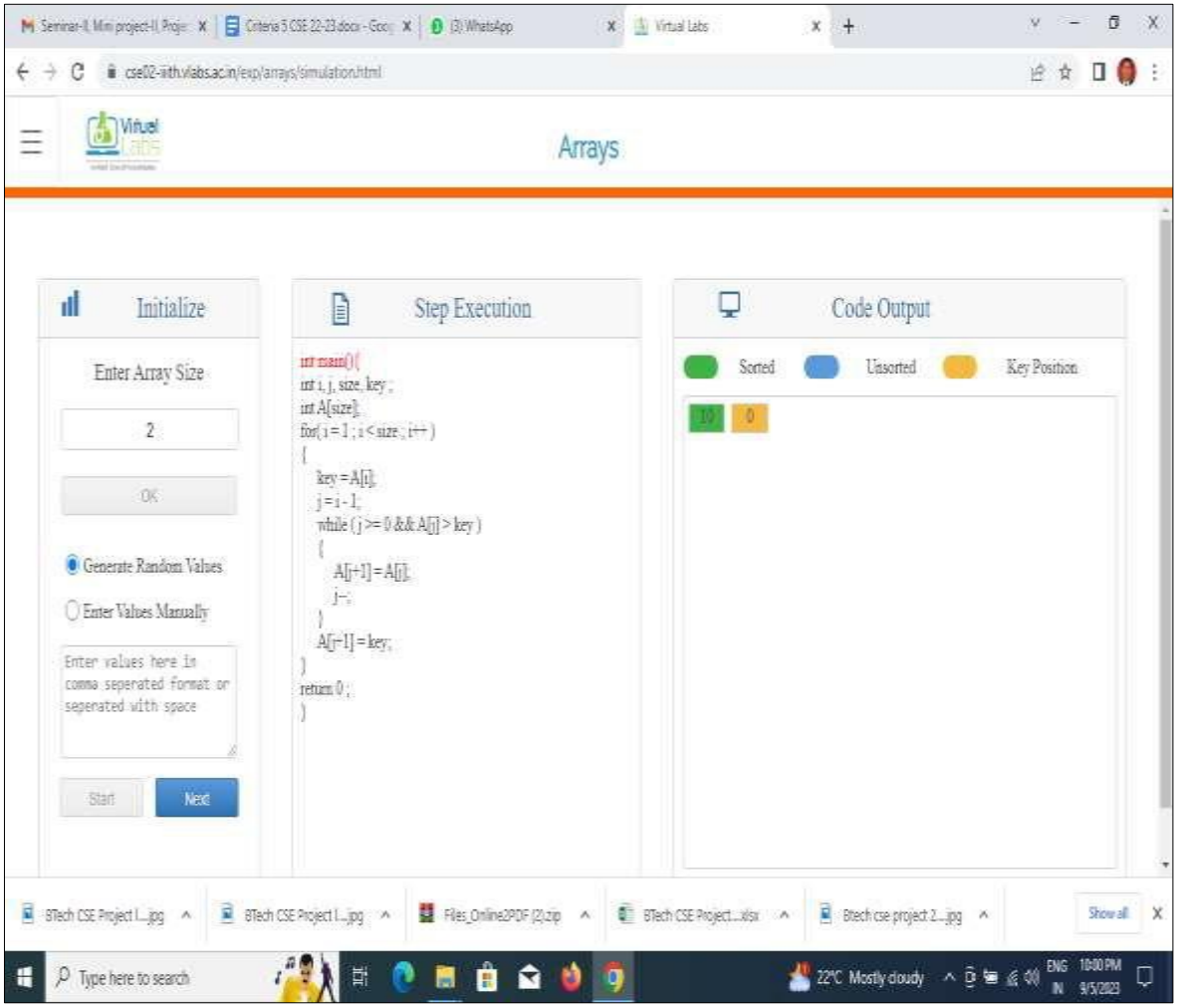


Figure 5.5.25b Screenshots of Experiment for Computer Programming conducted using the Virtual Labs Platform

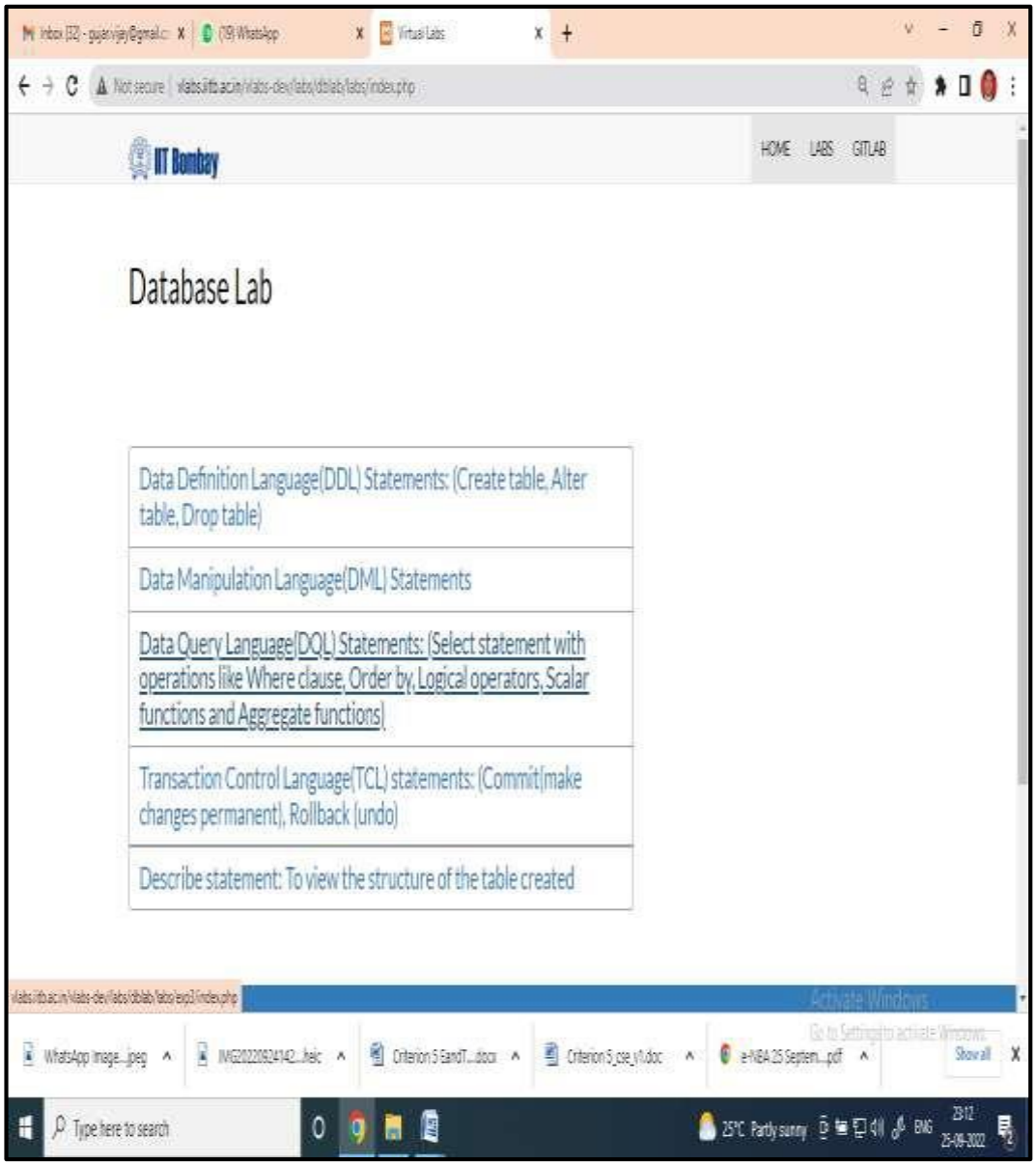


Fig 5.5.26 Database Virtual Lab (TYCSE)

- **Use of Interactive panels and projectors in the digital classrooms.**

  Project-based and Self-learning: Students are encouraged to group in various domains such as IoT, Web Technology, AI, etc. and work in the development of projects and research-paper based projects.

Figure 5.5.27 Demo of project based and self-learning.

5.6 Faculty as participants in Faculty Development/training activities/STTPs

Name of Faculty	2021-2022	2020-2021	2019-20
Ashwini Prakash Sawant	0	3	3
Pranav Avinash Pathak	5	5	5
Samina Yasin Mulla	5	5	5
Dinkar Vishnu Jadhav	3	3	0
Varsha Kiran Bhosale	0	0	5
Rajani Mahendra Mandhare	5	5	5
Vijay Bhanudas Gujar	5	5	0
Vanashri Nandkumar Sawant	0	0	0
Devaki Vijay Ingule	0	0	0
Nikita Rajendra Barge	0	0	0
Suraj Rajaram Nalawade	0	0	0
Harshal Ashokrao Karande	0	0	3
Pooja Ramrao Katre	0	0	0
Shital Vishwas Chavan	0	0	0
Priyanka Lahu Gaikwad	0	0	0
Pushpendra SatyaPrakash Bhat	3	0	0
Manali Manish Shaha	0	0	0
Sum	26	26	26
RF= Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 5.1	9.9	9.9	10.1
Assessment = 3 × (Sum/0.5RF)	15.15	14.54	15.44
Average assessment over three years (Marks limited to 15) =15.04			

5.7.1 Academic research includes research paper publications, Ph.D. guidance, and facultyreceiving Ph.D. during the assessment period.

Academic Year- 2022-23

Sr.No	Faculty name	Title of paper	Name of the Journal /Conference
1	Mr.Gujar V.B	Improving performance of software through genetic algorithms by generating automatic test cases.	Innovations in system and software engineering
2	Mr. Vijay Gujar	Realtime face mask detection using CNN.	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023), ISBN: 978-81-961931-1-9
3	Mr. Vijay Gujar	Dengu Maleria Prediction using CNN	
4	Mr. Vijay Gujar	Custom named entity recognition using spacy	
5	Mrs. Mandhare R.M.	Medicine donation software	
6	Ms. Mulla S.Y.	Human activity and face recognition using machine learning and deep learning model	
7	Mrs. Mandhare R.M.	Inventory management system	
8	Ms. Mulla S.Y.	women security system	
9	Mr. Pathak P. A.	Real estate search based on data mining.	
10	Mr. Pathak P. A.	Product recommendation system	

11	Mr. Vijay Gujar	Personal health care	
12	Mr. Vijay Gujar	Detection of plant leaf diseases detection using CNN	
13	Ms. Mulla S.Y.	Sign Language Recognition using Machine Learning	
14	Mr. Pathak P. A.	E-Learning Management System	
15	Ms. Mulla S.Y.	Clinical Report Extraction using NLP	

Academic Year 2021 – 2022				
Sr. No.	**Faculty Name**	**Title of the Paper**	**Name of the Journal/Conference**	**Journal Details**
1	Mr.Pathak.P.A	A Review on automatic response provision for improving conversation	International Journal of Current Engineering and Scientific Reasearch	ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, VOLUME-9, ISSUE-8, 2022 VOLUME 9 ISSUE 8 (AUGUST 2022) | PUBLICATION DATE:1ST AUGUST 2022
2	Mr.Gujar V.B	A Review on automatic response provision for improving conversation	International Journal of Current Engineering and Scientific Reasearch	
3	Mrs Mandhare R.M	Secrete Key Management for Distributed Wireless Sensor Network	Official Journal of the Patent Office	Publication of the Patent Office Issue No. 38/2022, Friday, Date: 23/09/2022 pp. 60202

Academic Year 2020-21

4	Mrs. Manali Manish Shah	Prediction Methods for Survival in Liver Transplantation	Natural Virtual Conference on Recent Advancement in Engineering and Technology. (NCRAET-2021)	Organised by Institute for Engineering Research and Publication (IFERP) on 29 and 30 Jan 2021.

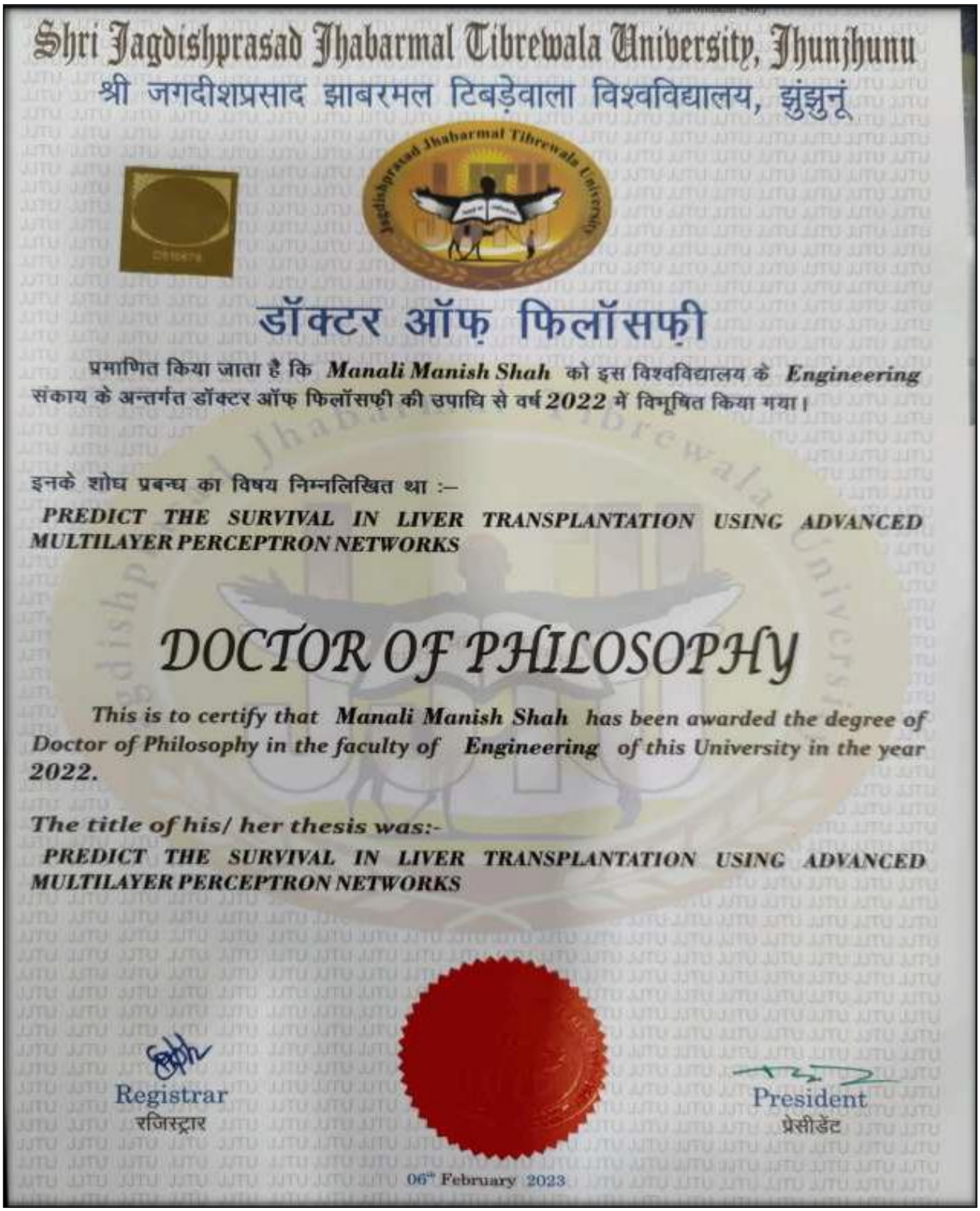
Sr.No	Faculty name	Title of paper	Name of the Journal /Conference
1	Sawant A. P.	Smart-Parking System Based on Internet-of- Things	International Conference on Innovations and Recent Trends in Engineering and Science
2	Mulla S.Y.	WebAR: Mobile Augmented Reality	
3	Mr.Pathak.P.A	REVIEW ON APPLICATIONS DESIRED BY SUGAR INDUSTRIES	
4	Mr.Pathak.P.A	CUSTOMER RELATIONSHIPMANAGEMENT APPLICATION FORSUGAR MILL	
5	Mr.Pathak.P.A	Review on Development of the Web Application for the User Bike Servicing	
6	Dr. Bhosale V.K.	GPS BASED FIELD FORCE TRACKING SYSTEM	
7	Dr. Bhosale V.K.	A REVIEW OF GPS SYSTEM	
8	Dr. Bhosale V. K.	AUTOMATIC TEXT CLASSIFICATION OF NEWS BLOG USING MACHINE LEARNING.	

9	Mr.Pathak.P.A.	CUSTOMER RELATIONSHIP MANAGEMENT APPLICATION FOR SUGAR MILL.	
10	Mr.Pathak.P.A.	REVIEW ON APPLICATIONS DESIRED BY SUGAR INDUSTRIES	

Academic Year 2019-20			
Sr. No.	**Faculty name**	**Title of paper**	**Name of the Journal /Conference**
1	Mr.Gujar V.B.	Intelligent Transportation using Deep Learning	International Journal of Innovative Technology and Exploring Engineering (IJITEE)ISSN: 2278-3075,Volume-9 Issue-3, January2020
2	Mr.Gujar V.B	Intelligent Video Surveillance using Deep Learning	International Journal of Engineering and Advanced Technology (IJEAT)ISSN: 2249 –8958,Volume-9Issue-3, February, 2020
3	Mr.Gujar V.B	DEEPLEARNING: EFFECTIVE TOOL FOR BIG DATA ANALYTICS	www.ijrar.org E-ISSN 2348-1269, P-ISSN 2349-5138
4	Dr. Varsha Kiran Bhosale	Automatic text classification of news blog using machine learning	International Conference on Research Outlook, Innovations and Research Trends (ICROIRT-2020)/ International Journal of Advance Study and Research Work (IJASRW)

5.7.1 B) PhD guided/Phd awarded during the assessment period while working in the institute (04)

Faculty Name	Phd guiding	During assessment year PhD award
Dr. Shah M.M.	-	30/05/2022



Shri Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu

श्री जगदीशप्रसाद झाबरमल टिबड़ेवाला विश्वविद्यालय, झुंझुनूं

डॉक्टर ऑफ़ फिलॉसफ़ी

प्रमाणित किया जाता है कि *Manali Manish Shah* को इस विश्वविद्यालय के *Engineering* संकाय के अन्तर्गत डॉक्टर ऑफ फिलॉसफ़ी की उपाधि से वर्ष *2022* में विभूषित किया गया।

इनके शोध प्रबन्ध का विषय निम्नलिखित था :–

PREDICT THE SURVIVAL IN LIVER TRANSPLANTATION USING ADVANCED MULTILAYER PERCEPTRON NETWORKS

DOCTOR OF PHILOSOPHY

This is to certify that ***Manali Manish Shah*** *has been awarded the degree of Doctor of Philosophy in the faculty of* ***Engineering*** *of this University in the year* ***2022.***

The title of his/ her thesis was:-

PREDICT THE SURVIVAL IN LIVER TRANSPLANTATION USING ADVANCED MULTILAYER PERCEPTRON NETWORKS

Registrar
रजिस्ट्रार

President
प्रेसीडेंट

06th February 2023

Figure 5.7.2.1 PhD marksheet of Dr. Shah M.M.

5.7.2 Sponsored Research

Academic Year- 2022-2023			
Sr.No	**Project Title**	**Funding Agency**	**Amount**
1	Custom named entity recognition using spacy	2020 Analytics Insights Pvt Ltd,	Rs. 32000
2	Medicine donation software	Code Neel Softwares Pvt Ltd, Pratibhanagar, Pune.	Rs. 25000
3	Human activity and face recognition using machine learning and deep learning model	Sygnius Ventures Private Limited, Pune.	Rs. 35000
4	Inventory management system	APPKIDA TECHNOLOGIES, Pune.	Rs. 25000
5	Women Security App	Source Code Technology Pvt Ltd, Chinchwad, Pune.	Rs. 42000
6	Real Time Face Mask Detection.	Nebula Technologies, Pune.	Rs. 10000
7	Dengu Maleria Predection using CNN.	Oyite Pvt Ltd, MG Road, Pune.	Rs. 40000
8	RTO Service Management	ECS SOFTWARE TECHNOLOGIES PRIVATE LIMITED, Saidapur Karad.	Rs. 26500
9	Real estate search based on data mining.	ECS SOFTWARE TECHNOLOGIES PRIVATE LIMITED, Saidapur Karad.	Rs. 20000
10	Product recommendation system	Oyite Pvt Ltd, MG Road, Pune.	Rs. 35000

11	Personal health care	Mythos Technolog, Narhe, Pune.	Rs. 32800
12	Voice Vault Using Python	Iresolve Services, Mulund W, Mumbai.	Rs. 25000
13	Computer vision based virtual Mouse system	Incoding Tech, Karve Nagar, Pune.	Rs. 30000
14	Detection of plant leaf diseases detection using CNN	A Java Home, Katraj, Pune.	Rs. 30000
14	Sign Language Recognition using Machine Learning	AB Software Solutions, Satara.	Rs. 25000
16	E-Learning Management System	ECS SOFTWARE TECHNOLOGIES PRIVATE LIMITED, Saidapur Karad.	Rs. 26500
17	Clinical Report Extraction using NLP	Mythos Technology, Narhe, Pune.	Rs. 24000
		Total	**Rs. 483000**

Academic Year- 2021-2022			
Sr.No	**Project Title**	**Funding Agency**	**Amount**
1	Hand sign elevator	Pristine Technologies,Tatawade,pune-411033.	80,000
2	Online import and export	Oytie Technology,MG Road,Pune-4111001.	25,000
3	Secret vault using AES SHA256 algorithm.	Lunar Webventures, Sanewadi, pune-411007.	20,000
4	IoT-Based Smart Irrigation System to Provide Ideal Condition for Crops	Logicon Technosolutions Pvt Ltd,MIDC chinchwad,Pune-411019.	22,000
5	Artificial Agriculture	3 Star IT Solutions & Service,Satara-415002	22,000
6	Student Attendance Using Barcode Scan	MH11CODERS,Powai Naka,Satara-415002.	20,000
7	To Develop a web protral displaying KD automation product details.	KDAutomation, Sinhgad Road, Pune-411051.	22,000
		Total	**2,11,000**

Academic Year- 2020-2021				
Sr. No.	**Project Title**	**Duration**	**Funding Agency**	**Amount**
1	BMC Performance Monitoring System	1 Year	iSoft Software Solutions,Satara	Rs. 15000/-
2	Web Development of PTMPL Advertising	1 Year	Rudra Architects Interior,Landscape and Master Planners Satara	Rs. 12000/-
3	Construction Site Management System	1 Year	Vigneshwara Builders & Developers Juna Satara-Pune Highway, Phalke Residency, Saidapur Phata Corner Main Chowk Saidapur, Satara Maharashtra, India	Rs. 12000/-
4	Online Grocery Market	1 Year	Source code Technology Pune	Rs. 7000/-
5	Forest Fire Detection and Control	1 Year	Soucecode Technology Pune	Rs. 16000/-
6	Student Record System With Recruitment Update	1 Year	Cas Exim	Rs. 17000/-
			Total	79,000

Academic Year- 2019-2020				
Sr. No.	**Project Title**	**Duration**	**Funding Agency**	**Amount**
1	Customized Web Application for Sugar Factory	1 Year	Kisan Veer Sugar Factory, Wai, Satara	Rs. 15000/-
2	CRM Application for Online Buying and Selling Property	1 Year	Tuljabhavani Constructions	Rs. 15000/-
3	GPS-based Field Force Tracking System	1 Year	Inventive Infotech, Satara	Rs. 12000/-
4	Customized Web Portal for Vehicle Insurance System	1 Year	Shri Surveyors and Loss Assessors, Pune	Rs. 13000/-
5	Digitizing School Framework	1 Year	Aditya English Medium School, Bavdhan, Pune	Rs. 14000/-
6	Online Platform for Managing Advertising Agency Activities	1 Year	Existance Software Solution, Nashik	Rs. 15000/-
7	Web Portal for Online Bike Servicing	1 Year	3Star IT Solutions, Satara	Rs. 15000/-

5.7.2 Development Activities

Product Development:

1. **Innovative teaching aids:**

1. **Dengue Malaria Prediction using CNN-**

The people are suffering from the numerous viral conditions like Dengue, Malaria. This information is collected from the colorful hospitals and the analysis of data is done and vaticination of some conditions can be made. This system gives the vaticination as per position of the area.

Description:

Module 1:

In this system we detect the dengue or malaria virus based blood cell image and apply image processing with the use of machine learning algoritam

Module 2:

Detecting diseases based on symptoms.

A. *Algorithm:*

CNN is the basic algorithm used in the project which is as follows,

1. Classify dataset under labeled folders with blood samples images as CNN is supervised algorithm
2. Read dataset and prepare dataset in one file as pickle and NumPy.
3. Read features of all images and label (here name of dataset folder) of it using following functions,
   a. Conv2D
   b. Maxpool2D
   c. REL activation for layers
   d. Sigmoid activation for dense layer
   e. Binary Cross entropy for loss calculation
4. Store it in model file

5. Get input image
6. Read features of input image
7. Compare features of stored features
8. Show label as prediction of nearly matched features.

CONCLUSION

The health care terrain is set up to be rich in information, but poor in rooting knowledge from the information. This is because we do not having effective and effective tools and styles. By applying the rearmost technology like machine literacy algorithms and ways and styles precious knowledge can be uprooted from the health care system can be veritably useful for farther improvement. Malaria and Dengue have a lot of bad runs which can harm mortal body veritably poorly. We are using Deep Learning algorithms to increase the delicacy of Malaria and Dengue Disease vaticination System. It's enforced as desktop operation in which stoner submits the miscellaneous data like textbook and image of blood cells symptoms. It retrieves retired data from stored database and deep literacy model and compares the stoner values with trained data set.

2. A Machine Learning Model for Venue Exploration and Recommendations.

Research Area:

- The system will run mainly for Machine Learning Domain.
- The area of research is the tourism and hospitality sector.

Problem Statement: Develop a standalone machine learning system that is capable of exploring venues in different cities in India by using the Foursquare API and Zomato API and accurately recommends the venues for new visitors by considering different input features.

Proposed algorithm Uses Foursquare API and Zomato API to fetch real time venues data including geospatial data and also uses K means and algorithms.

In a proposed system we will analyse the venues real time data fetched from Foursquare API and Zomato API and find the meaningful patterns from them.

We will apply the K-means and SVM algorithm to classify the data into different categories and evaluate the result based on the training, testing and validation set of the data.

The primary aims to provide a standalone, scalable, portable and accurate framework for large scale tree boosting. Proposed system will achieve the goals which minimise the risks and maximise the accuracy.

Figure 5.7.3.1 Patent issuance of A machine learning model for venue exploration and recommendation.

Conclusion- Anticipating the accuracy of our model we achieved an extra milestone from the existing system. The purpose of this project is to explore the venues mainly focused in Indian cities that the visitors could explore and visit during their stay.

Hence our system identified such venues and places using foursquare api and Zomato api and plotted it into interactive folium maps. Our algorithms classified data into different categories using k-means and svm algorithms and recommend venues based on the venue ratings and price preferences.

Also our machine learning based standalone web application is capable of handling and preprocessing large amounts of data fetched from api. Our system will reduce the cost of expenses and maximize accuracy with the minimum risks.

3. Student Information System

1. Website Development

2. Back end database connectivity

Website Design and Database Connectivity

Student information system (SIS) is a software application for educational establishments to manage student data. Student information systems provide capabilities for entering student test? and other assessment scores, building student schedules, tracking student attendance, and managing many other student-related data needs in a school, college or university

Student Information System (SIS) Vision:

1. Provide better services to students, faculty, staff, prospective students, administration, etc.
2. Provide meaningful, consistent, and timely data and information to end users.
3. Promote vision of senior management to address opportunities for change.
4. Update technology infrastructure for more effective and flexible delivery of new systems.
5. Promote efficiencies by converting paper processes to electronic form.

The mission of the Student Information System: project is to create an integrated technology environment for students,HOD , faculty, Staff and administration. Our goal is to focus on customers, services and integration for end users. The Student Information System has to accept processes and generate reports accurately and at any point of time any user can get the student information.

4) Student Attendance by Using Barcode Scan

Online attendance monitoring system (OAMS) is mainly focused on student attendance or any organisation employee attendance such as educational institutes for public and private sector on the basis of online class. Online attendance monitoring system will replace the manual method which takes a lot of time and is difficult to maintain. There are many technologies used for attendance but these technologies are the best for attendance. The Online Attendance Monitoring System is designed to record student data and store the data in a database. This software takes attendance electronically via QR code or face detection. Online Attendance

Monitoring System is based on a web server, which can be implemented on a computer or any android Phone. In this technology smart phones play an important role in our day to day life. Nowadays smartphones can solve most problems very easily and quickly. In this application, Python is a server side language.

OBJECTIVES

- The main specific objective of these project is to develop a portable Attendance monitoring system Which is handy and self-powered, to ensure the speed of the attendance recording process is faster than the previous system which can go as fast as approximately 3 second for each student , have sufficient memory space to store the database
- To be able to detect the face of an individual accurately face to face database and monitor the attendance with the help of QR code on the student database. Develop a database for the attendance monitoring system using face detection and QR code.

Conclusion:

In this system, we use face detection and add QR code. To capture the student data. This process is done on a particular website. For this process we use algorithms or code for face detection and also for QR code. It is an efficient method to store the attendance in the web site rather than wasting the paperwork. Online attendance monitoring systems can store the student data and this system also checks the absent student details.

2. Project Posters:

Students are encouraged to participate in Poster Presentation competitions. Posters prepared by the students and presented in innovative project competitions such as AVISHKAR, Smart India Hackthon and ANVESHAN are made available to the students for study and presentation purposes.

3. Laboratory Manuals:

The following Laboratory Manuals have been developed by the faculty members:

Table 6. Lab Manuals for the Subjects under CSE 2022-2023

Sr. No.	Semester	Year	Name of the Subject
1	Even Semester	SY B.Tech	1. Operating System 2. Seminar-II 4. Python Programming.
		TY B.Tech	1. Computer Network 2. Competitive Programming
2	Odd Semester	SY B.Tech	1. OOP 2. Data Structures
		TY B.Tech	1. Software Engineering. 2. Database Systems.

4. Working Models/Charts/Monograms etc.:

Following is the list of charts displayed in the laboratories of the CSE department:

Table 8. Charts Displayed in the Laboratories of the Department

Sr. No.	Laboratory Name	Chart Title
1	Programming Lab.	• Python application, industries poster • OOP application, industries poster
2	Database Engineering Lab.	• Database application, industries poster • Data Structures application, industries poster
3	Machine Learning Lab	• ML application, industries poster • Seminar-I application, industries poster
4	Network Lab	• Cloud computing application, industries poster • CP application, industries poster
5	OS Lab	• SE application, industries poster • OS application, industries poster

6	UX/UI Lab	• Mini project application, industries poster • Project application, industries poster

5.7.3 Consultancy (from Industry) (05)

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding amount (Cumulative during CAYm1, CAYm2, and CAYm3):
Amount > 10 Lakh
- 5 Marks

Amount >= 8 Lakh and <= 10 Lakh
- 4 Marks

Amount >= 6 Lakh and <= 8 Lakh
- 3 Marks

Amount >= 4 Lakh and <= 6 Lakh
- 2 Marks

Amount >= 2 Lakh and <= 4 Lakh
- 1 Mark

Amount < 2 Lakh - 0 Mark

Academic Year- 2022-2023			
Sr.No	**Project Title**	**Funding Agency**	**Amount**
1	Custom named entity recognition using spacy	2020 Analytics Insights Pvt Ltd,	Rs. 32000
2	Medicine donation software	Code Neel Softwares Pvt Ltd, Pratibhanagar, Pune.	Rs. 25000
3	Human activity and face recognition using machine learning and deep learning model	Sygnius Ventures Private Limited, Pune.	Rs. 35000
4	Inventory management system	APPKIDA TECHNOLOGIES, Pune.	Rs. 25000
5	Women Security App	Source Code Technology Pvt Ltd, Chinchwad, Pune.	Rs. 42000

6	Real Time Face Mask Detection.	Nebula Technologies, Pune.	Rs. 10000

7	Dengu Maleria Predection using CNN.	Oyite Pvt Ltd, MG Road, Pune.	Rs. 40000
8	RTO Service Management	ECS SOFTWARE TECHNOLOGIES PRIVATE LIMITED, Saidapur Karad.	Rs. 26500
9	Real estate search based on data mining.	ECS SOFTWARE TECHNOLOGIES PRIVATE LIMITED, Saidapur Karad.	Rs. 20000
10	Product recommendation system	Oyite Pvt Ltd, MG Road, Pune.	Rs. 35000
11	Personal health care	Mythos Technolog, Narhe, Pune.	Rs. 32800
12	Voice Vault Using Python	Iresolve Services, Mulund W, Mumbai.	Rs. 25000
13	Computer vision based virtual Mouse system	Incoding Tech, Karve Nagar, Pune.	Rs. 30000
14	Detection of plant leaf diseases detection using CNN	A Java Home, Katraj, Pune.	Rs. 30000
14	Sign Language Recognition using Machine Learning	AB Software Solutions, Satara.	Rs. 25000
16	E-Learning Management System	ECS SOFTWARE TECHNOLOGIES PRIVATE LIMITED, Saidapur Karad.	Rs. 26500
17	Clinical Report Extraction using NLP	Mythos Technology, Narhe, Pune.	Rs. 24000
		Total	**Rs. 483000**

Academic Year- 2021-2022			
Sr.No	**Project Title**	**Funding Agency**	**Amount**
1	Hand sign elevator	Pristine Technologies,Tatawade,pune-411033.	80,000
2	Online import and export	Oytie Technology,MG Road,Pune-4111001.	25,000
3	Secret vault using AES SHA256 algorithm.	Lunar Webventures, Sanewadi, pune-411007.	20,000
4	IoT-Based Smart Irrigation System to Provide Ideal Condition for Crops	Logicon Technosolutions Pvt Ltd,MIDC chinchwad,Pune-411019.	22,000
5	Artificial Agriculture	3 Star IT Solutions & Service,Satara-415002	22,000
6	Student Attendance Using Barcode Scan	MH11CODERS,Powai Naka,Satara-415002.	20,000
7	To Develop a web protral displaying KD automation product details.	KDAutomation, Sinhgad Road, Pune-411051.	22,000
		Total	**2,11,000**

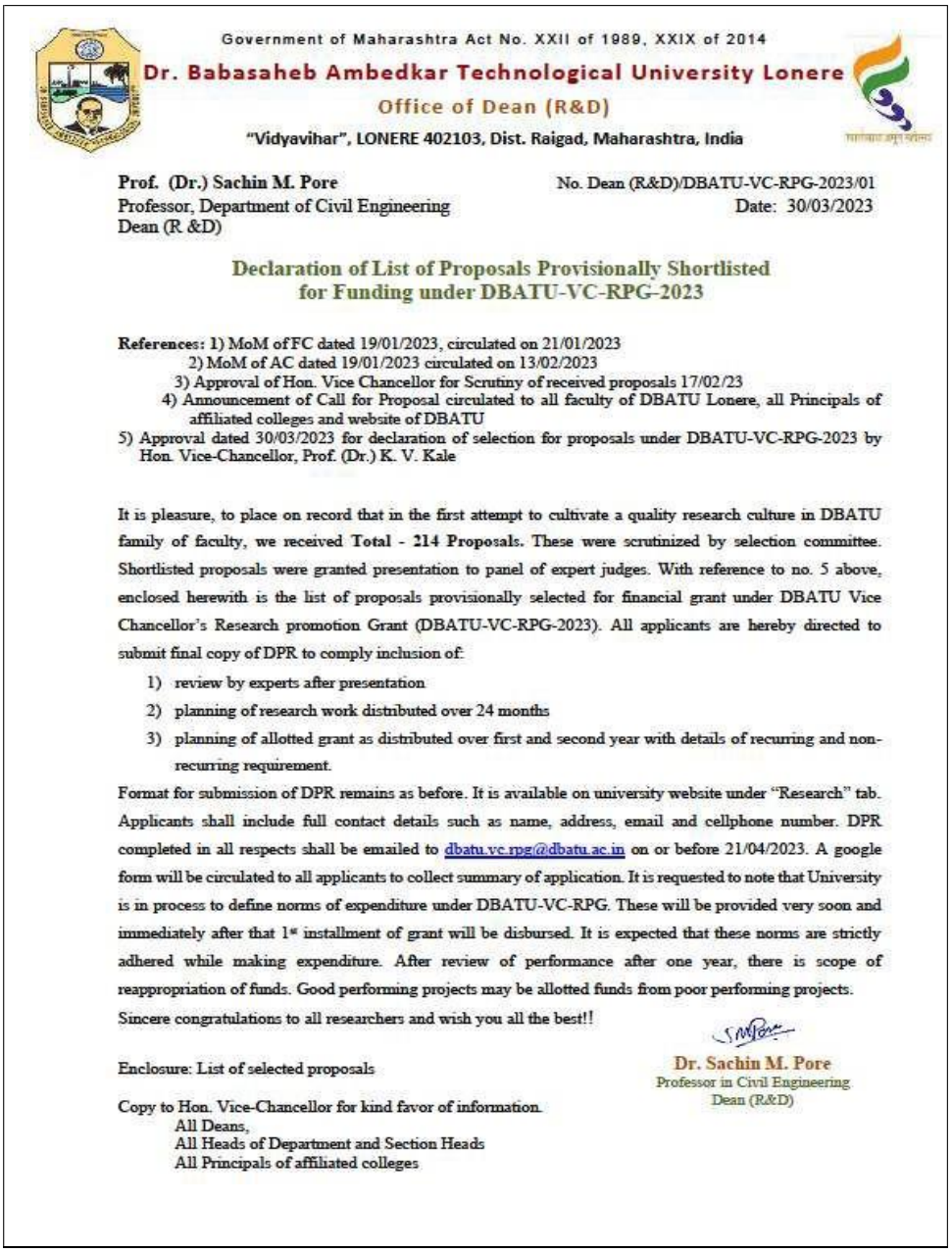
Academic Year- 2020-2021				
Sr. No.	**Project Title**	**Duration**	**Funding Agency**	**Amount**
1	BMC Performance Monitoring System	1 Year	iSoft Software Solutions,Satara	Rs. 15000/-
2	Web Development of PTMPL Advertising	1 Year	Rudra Architects Interior,Landscape and Master Planners Satara	Rs. 12000/-
3	Construction Site Management System	1 Year	Vigneshwara Builders & Developers Juna Satara-Pune Highway, Phalke Residency, Saidapur Phata Corner Main Chowk Saidapur, Satara Maharashtra, India	Rs. 12000/-
4	Online Grocery Market	1 Year	Source code Technology Pune	Rs. 7000/-
5	Forest Fire Detection and Control	1 Year	Source code Technology Pune	Rs. 16000/-
6	Student Record System With Recruitment Update	1 Year	Cas Exim	Rs. 17000/-

5.7.4 Funded Research Details

Funded research:

2022-23(CAY)

S. No.	Faculty Name	Funding Agency	Grant Amount (in Rs.)
1	Ms. Mulla S.Y.	DBATU, Lonere	65,000



Government of Maharashtra Act No. XXII of 1989, XXIX of 2014

Dr. Babasaheb Ambedkar Technological University Lonere

Office of Dean (R&D)

"Vidyavihar", LONERE 402103, Dist. Raigad, Maharashtra, India

Prof. (Dr.) Sachin M. Pore
Professor, Department of Civil Engineering
Dean (R &D)

No. Dean (R&D)/DBATU-VC-RPG-2023/01
Date: 30/03/2023

Declaration of List of Proposals Provisionally Shortlisted for Funding under DBATU-VC-RPG-2023

References: 1) MoM of FC dated 19/01/2023, circulated on 21/01/2023
2) MoM of AC dated 19/01/2023 circulated on 13/02/2023
3) Approval of Hon. Vice Chancellor for Scrutiny of received proposals 17/02/23
4) Announcement of Call for Proposal circulated to all faculty of DBATU Lonere, all Principals of affiliated colleges and website of DBATU
5) Approval dated 30/03/2023 for declaration of selection for proposals under DBATU-VC-RPG-2023 by Hon. Vice-Chancellor, Prof. (Dr.) K. V. Kale

It is pleasure, to place on record that in the first attempt to cultivate a quality research culture in DBATU family of faculty, we received **Total - 214 Proposals.** These were scrutinized by selection committee. Shortlisted proposals were granted presentation to panel of expert judges. With reference to no. 5 above, enclosed herewith is the list of proposals provisionally selected for financial grant under DBATU Vice Chancellor's Research promotion Grant (DBATU-VC-RPG-2023). All applicants are hereby directed to submit final copy of DPR to comply inclusion of:

1) review by experts after presentation
2) planning of research work distributed over 24 months
3) planning of allotted grant as distributed over first and second year with details of recurring and non-recurring requirement.

Format for submission of DPR remains as before. It is available on university website under "Research" tab. Applicants shall include full contact details such as name, address, email and cellphone number. DPR completed in all respects shall be emailed to dbatu.vc.rpg@dbatu.ac.in on or before 21/04/2023. A google form will be circulated to all applicants to collect summary of application. It is requested to note that University is in process to define norms of expenditure under DBATU-VC-RPG. These will be provided very soon and immediately after that 1st installment of grant will be disbursed. It is expected that these norms are strictly adhered while making expenditure. After review of performance after one year, there is scope of reappropriation of funds. Good performing projects may be allotted funds from poor performing projects.

Sincere congratulations to all researchers and wish you all the best!!

Dr. Sachin M. Pore
Professor in Civil Engineering
Dean (R&D)

Enclosure: List of selected proposals

Copy to Hon. Vice-Chancellor for kind favor of information.
All Deans,
All Heads of Department and Section Heads
All Principals of affiliated colleges

5.8 Faculty Performance Appraisal and Development System (FPADS)

Faculty members of Higher Educational Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, faculty members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real-life problems in industry. Another role relates to the shouldering of administrative responsibilities and co-operation with other Faculty, Heads-of-Department and the Head of Institute. An

effective performance appraisal system for Faculty is vital for optimizing the contribution of individual Faculty to institutional performance.

The assessment is based on:
A well-defined system for faculty appraisal for all the assessment years (10)
Its implementation and effectiveness (20)

1. Performance appraisal system of the faculty:

Annual self-assessment for the performance-based appraisal system is adopted as per the UGC notification 30th June 2010 approved by the Govt. of Maharashtra state vide GR dated 15th February 2011. Hence it is ensured that information on multiple activities is appropriately captured.

Category I: Teaching, Learning and Evaluation Related Activities

Brief Explanation:

Based on the teacher's self-assessment, API scores are proposed for (a) teaching related activities, (b) domain knowledge, (c) participation in examination and evaluation, (d) contribution to innovative teaching, new courses, etc. The minimum API score required by teachers from this category is 75. The self-assessment score should be based on objectively verifiable criteria wherever possible and will be finalized by the screening/selection committee.

Category II: Co-curricular, Extension and Professional Development Related Activities

Brief Explanation:

Based on the teacher's self-assessment, category II API scores are proposed for co-curricular and extension activities and Professional development related contributions. The minimum API required by teachers for eligibility for promotion is 15. A list of items and proposed scores is given below. It will be noticed that all teachers can earn scores from a number of items, whereas some activities will be carried out only by one or a few teachers. The list of activities is broad enough for the minimum API score required (15) in this category to accrue to all teachers. As before, the self-assessment score should be based on objectively verifiable criteria and will be finalized by the screening/selection committee.

Category III: Research and Academic Contributions

Brief Explanation:

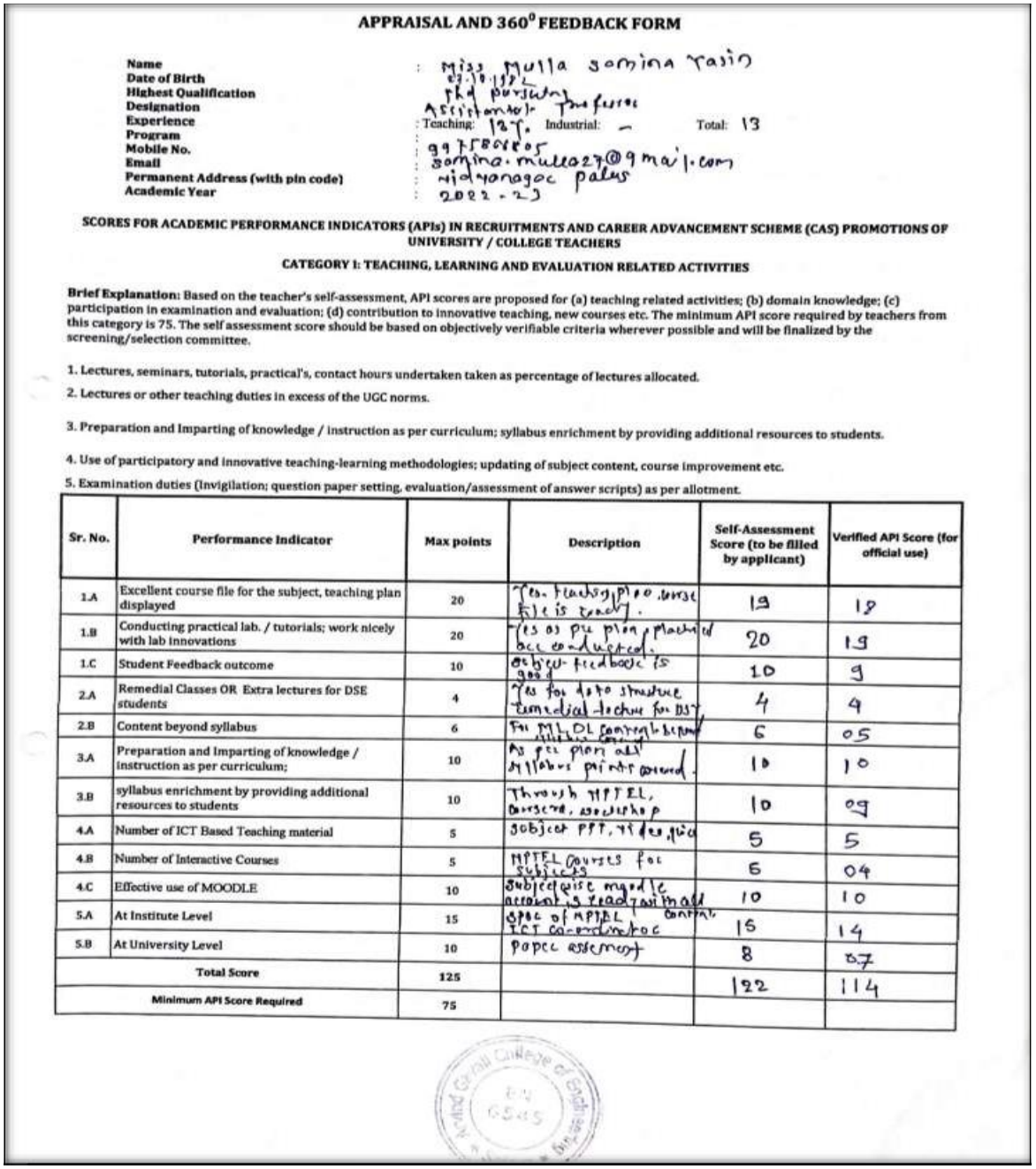
Based on the teacher's self-assessment, API scores are proposed for research and academic contributions. The minimum API score required by teachers from this category is different for different levels of promotion and between university and colleges. The self-assessment score will be based on verifiable criteria and will be finalized by the screening/selection committee.

Review of Performance Appraisal:

The Performance-based Appraisal System (PBAS) forms are submitted through the Head of Department to the Academic Monitoring Committee (AMC), R&D and IPR Committee, and IQAC Committee. The Head of Department along with the AMC, R&D and IPR Committee, and IQAC form the review committee.

The advantage of PBAS is that each faculty becomes aware of self-weakness and tries to improve oneself in those areas so that he/she can score better in the next year.

Faculty with good API scores are given letters of appreciation and the faculty members having low API scores are personally counsel by the Head of the Institute.



APPRAISAL AND 360° FEEDBACK FORM

Name	: Miss Mulla Samina Yasin
Date of Birth	: 27.10.1992
Highest Qualification	: Phd pursuing
Designation	: Assistant Professor
Experience	: Teaching: 12Y. Industrial: – Total: 13
Program	:
Mobile No.	: 9975808805
Email	: samina.mulla27@gmail.com
Permanent Address (with pin code)	: vidyanagar patan
Academic Year	: 2022-23

SCORES FOR ACADEMIC PERFORMANCE INDICATORS (APIs) IN RECRUITMENTS AND CAREER ADVANCEMENT SCHEME (CAS) PROMOTIONS OF UNIVERSITY / COLLEGE TEACHERS

CATEGORY I: TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES

Brief Explanation: Based on the teacher's self-assessment, API scores are proposed for (a) teaching related activities; (b) domain knowledge; (c) participation in examination and evaluation; (d) contribution to innovative teaching, new courses etc. The minimum API score required by teachers from this category is 75. The self assessment score should be based on objectively verifiable criteria wherever possible and will be finalized by the screening/selection committee.

1. Lectures, seminars, tutorials, practical's, contact hours undertaken taken as percentage of lectures allocated.
2. Lectures or other teaching duties in excess of the UGC norms.
3. Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students.
4. Use of participatory and innovative teaching-learning methodologies; updating of subject content, course improvement etc.
5. Examination duties (Invigilation; question paper setting, evaluation/assessment of answer scripts) as per allotment.

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.A	Excellent course file for the subject, teaching plan displayed	20	Yes. Teaching plan, course file is ready.	19	18
1.B	Conducting practical lab. / tutorials; work nicely with lab innovations	20	Yes as per plan practical are conducted.	20	19
1.C	Student Feedback outcome	10	Objective feedback is good	10	9
2.A	Remedial Classes OR Extra lectures for DSE students	4	Yes for data structure remedial lecture for DSE	4	4
2.B	Content beyond syllabus	6	For ML, DL content beyond syllabus covered	6	05
3.A	Preparation and Imparting of knowledge / instruction as per curriculum;	10	As per plan and syllabus printout covered.	10	10
3.B	syllabus enrichment by providing additional resources to students	10	Through NPTEL, Courseera, workshop	10	09
4.A	Number of ICT Based Teaching material	5	Subject PPT, Videos, Quiz	5	5
4.B	Number of Interactive Courses	5	NPTEL courses for subjects	5	04
4.C	Effective use of MOODLE	10	Subjectwise moodle account is ready and maintained	10	10
5.A	At Institute Level	15	Spoc of NPTEL course, ICT Co-ordinator	15	14
5.B	At University Level	10	Paper assessment	8	07
	Total Score	**125**		122	114
	Minimum API Score Required	**75**			

Figure 5.8.1 Performance Appraisal Form Page 1

CATEGORY II: CO-CURRICULAR, EXTENSION AND PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES.

Brief Explanation: Based on the teacher's self-assessment, category II API scores are proposed for co curricular and extension activities; and Professional development related contributions. The minimum API required by teachers for eligibility for promotion is 15. A list of items and proposed scores is given below. It will be noticed that all teachers can earn scores from a number of items, whereas some activities will be carried out only by one or a few teachers. The list of activities is broad enough for the minimum API score required (15) in this category to accrue to all teachers. As before, the self-assessment score should be based on objectively verifiable criteria and will be finalized by the screening/selection committee.

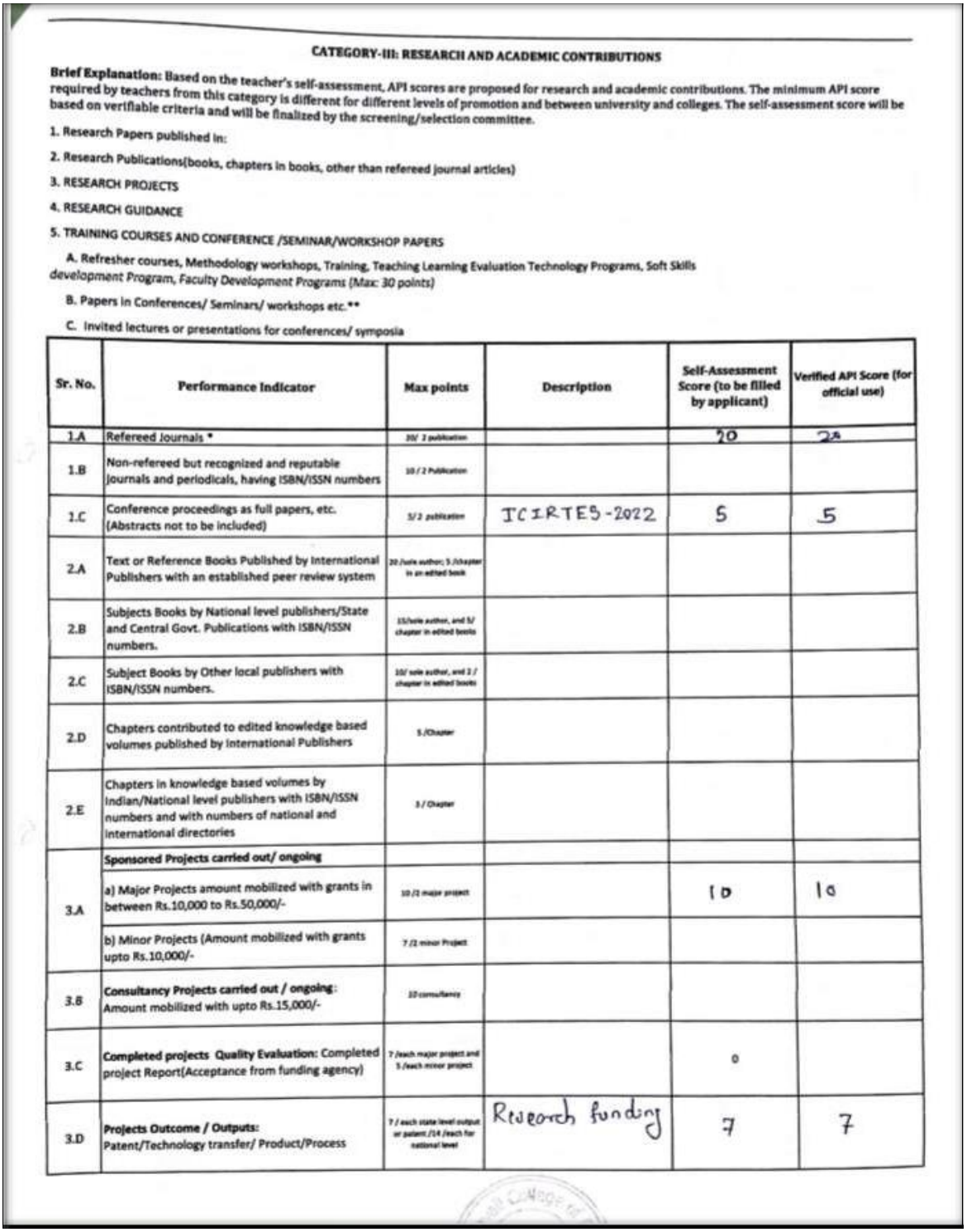
1. Student related co-curricular, extension and field based activities (such as extension work through NSS/NCC and other channels, cultural activities, subject related events, advisement and counseling)

2. Contribution to Corporate life and management of the department and institution through participation in academic and administrative committees and responsibilities.

3. Professional Development activities (such as participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination and general articles, not covered in Category III below)

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.A	Guidance to a project in exhibition / competition won any prize. Industry Sponsored projects.	4	Final year 4 projects group guided	4	4
1.B	Industry tour / visit, Visit to technical Exhibition	4	contributed in Industrial tour arrangement	4	4
1.C	Arranged the invited talks / Expert lecturers at Department / Institute level	4	Arranged Expert talk to dept.	3	3
1.D	VAP (Value addition training Program) conducted by a staff 40hrs / PBL/ New tech with projects. Conducted the lectures in GATE Forum OR Recourse persons for Skill Development Program.	4	for subject database project based learning approach used.	4	3
1.E	extension work through NSS/NCC and other channels, cultural activities	4	ASIR of NPTEL Extension work is provided	2	2
2.A	Institute level Responsibilities (Deans/COE: 05, Heads:3, other:02)	5	1. NBA criteria 6 Head 2. SPOC of NPTEL	5	4
2.B	Event Coordinators (Institute Level: 05,Department Level: 03,Participation:02)	5	Workshop on ML & python	5	04
2.C	Department Level Responsibilities: 05,Participation:02	5	1. NBA criteria 2 & criteria 3 co-ordinators 2. AMC of Dept	5	04
3.A	Participation in short term training courses, curriculum development, training courses, talks, lectures	5	Yes participated in training program of AICTE	5	04
3.B	Membership of professional associations committees, Boards of Studies, editorial committees of journals / institutional publications.	5	ISTE	5	5
3.C	Participation in subject associations, conferences, and seminars without paper presentation.	5	Yes International conference	5	05
	Total Score	**50**		45	42
	Minimum API Score Required	**20**			

Figure 5.8.2 Performance Appraisal Form Page 2



CATEGORY-III: RESEARCH AND ACADEMIC CONTRIBUTIONS

Brief Explanation: Based on the teacher's self-assessment, API scores are proposed for research and academic contributions. The minimum API score required by teachers from this category is different for different levels of promotion and between university and colleges. The self-assessment score will be based on verifiable criteria and will be finalized by the screening/selection committee.

1. Research Papers published in:
2. Research Publications(books, chapters in books, other than refereed journal articles)
3. RESEARCH PROJECTS
4. RESEARCH GUIDANCE
5. TRAINING COURSES AND CONFERENCE /SEMINAR/WORKSHOP PAPERS

A. Refresher courses, Methodology workshops, Training, Teaching Learning Evaluation Technology Programs, Soft Skills development Program, Faculty Development Programs (Max: 30 points)

B. Papers in Conferences/ Seminars/ workshops etc.**

C. Invited lectures or presentations for conferences/ symposia

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.A	Refereed Journals *	10/ 1 publication		20	20
1.B	Non-refereed but recognized and reputable Journals and periodicals, having ISBN/ISSN numbers	10 / 2 Publication			
1.C	Conference proceedings as full papers, etc. (Abstracts not to be included)	5/2 publication	ICIRTES-2022	5	5
2.A	Text or Reference Books Published by International Publishers with an established peer review system	20 /sole author; 5 /chapter in an edited book			
2.B	Subjects Books by National level publishers/State and Central Govt. Publications with ISBN/ISSN numbers.	15/sole author, and 5/ chapter in edited books			
2.C	Subject Books by Other local publishers with ISBN/ISSN numbers.	10/ sole author, and 2 / chapter in edited books			
2.D	Chapters contributed to edited knowledge based volumes published by International Publishers	5 /Chapter			
2.E	Chapters in knowledge based volumes by Indian/National level publishers with ISBN/ISSN numbers and with numbers of national and international directories	3 / Chapter			
3.A	**Sponsored Projects carried out/ ongoing**				
	a) Major Projects amount mobilized with grants in between Rs.10,000 to Rs.50,000/-	10 /1 major project		10	10
	b) Minor Projects (Amount mobilized with grants upto Rs.10,000/-	7 /1 minor Project			
3.B	**Consultancy Projects carried out / ongoing**: Amount mobilized with upto Rs.15,000/-	10 consultancy			
3.C	**Completed projects Quality Evaluation:** Completed project Report(Acceptance from funding agency)	7 /each major project and 5 /each minor project		0	
3.D	**Projects Outcome / Outputs:** Patent/Technology transfer/ Product/Process	7 / each state level output or patent /14 /each for national level	Research funding	7	7

Figure 5.8.3 Performance Appraisal Form Page 3

4.A	M.Tech/M.Phil- Degree awarded only	2 /each		2	2
4.B	Ph.D.				
	a) Degree awarded	4 /each			
	b) Thesis submitted	1 /each		1	1
5.A	a) Not less than two weeks duration	7/each			
	b) One week duration	5/each			
5.B	**Participation and Presentation of research papers (oral/poster) in**				
	a) International conference	8 each		32	31
	b) National conference	6/ each			
	c) Regional/State level	4 /each			
	d) Local – University/College	2 / each			
5.C	a) National level	5 /each			
	b) State level	2/each			
Total Score		**175**		77	76
Minimum API Score Required		**70**			

*Wherever relevant to any specific discipline, the API score for paper in refereed journal would be augmented as follows: (i) indexed journals – by 5 points; (ii) papers with impact factor between 1 and 2 by 10 points; (iii) papers with impact factor between 2 and 5 by 15 points; (iv) papers with impact factor between 5 and 10 by 25 points.

** If a paper presented in Conference/Seminar is published in the form of Proceedings, the points would accrue for the publication (III (a)) and not under presentation (III (e)(ii)). Note: The API for joint publications will have to be calculated in the following manner: Of the total score for the relevant category of publication by the concerned teacher, the first/Principal author and the corresponding author/supervisor/mentor of the teacher would share equally 60% of the total points and the remaining 40% would be shared equally by all other authors.

supporting documents, wherever required be attached.

	Category I	Category II	Category III	Total Score
Total Score	125	50	175	350
Minimum API Score Required	75	20	70	165
Total Self-Assessment Score	122	45	70	237
Score by Screening/ selection committee	114	42	76	232

Date:
Place: Satara

Signature of Faculty

Recommendation by screening team (Academic Monitoring Committee):

Member AMC **Head of Department** **Registrar** **Principal**

Head Computer Science & Engg.
Arvind Gavali College of Engg.

Figure 5.8.4 Performance Appraisal Form Page 4

5.9 Visiting/Adjunct / Emeritus Faculty Etc. (10)

Academic Year	Name of Faculty	Class	Duration in Hrs
2022-23	Mrs Sadhana Choughule	Final Year BTech	26
2022-23	Mr Abhay Choughule	Final Year BTech	26
2021-22	Abhay Ajit Kale	TY,SY	30
2021-22	Arundhati Aychit	SY	28
2020-21	Ruskar Rajmhamd Sayyd	TY, Final Year BTech	18
2020-21	Jayshree Dinkar Kalbhor	TY, Final Year BTech	37
2019-20	Rohit Bhole	BE	15
2019-20	Anup Lakade	SY	40

CRITERION 06	**Facilities and Technical Support**	**80**

6.1Adequateandwellequippedlaboratories,and technical manpower (30)

A. Adequate well-equipped laboratories to run all program-specific curriculums (20)

Sr. No	Name of the Laboratory	No. of students per setup(Batch Size)	Name of the Important/Major equipment	Weekly utilization on status(all The course for which the lab is utilized	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	Linus Torvalds(202A)	20	HP Core i5/7th Gen/ 256SSD/ Keyboard, Mouse/18.5 LCD	10Hr	Mr.Sanket Sawant	Lab Assistant	BSC
2.	Frank Rosenblat (202B)	20	HP Core i5/7th Gen/ 256SSD/ Keyboard, Mouse/18.5 LCD	10Hr	Mr.Amar Adake	Lab Assistant	Diploma in Electronics
3.	Dennis Ritchie (205)	22	Lenovo Core i5/4th Gen/ 500GB HDD/ Keyboard, Mouse/18.5 LCD	24 Hr	Mr Amar Adke	Lab Assistant	Diploma in Electronics
4.	Edgar F. Codd (206)	24	HP Core i5/6th Gen/ 256SSD/ Keyboard, Mouse/18.5 LCD and Lenovo Core i5/6th Gen/ 256SSD/ Keyboard, Mouse/18.5 LCD	24Hr	Ms.Priti Jamadade	Lab Assistan	Diploma in Computer Engineering
5	Andrew Ng (207)	24	Lenovo Core i5/6th Gen/ 256SSD/ Keyboard, Mouse/18.5 LCD	26Hr	Ms.Komal Gore	Lab Assistan	Diploma in Hardware and Networking

6	Ken Thompson (304)	20	Lenovo Core i5/4th Gen/ 500GB HDD/ Keyboard, Mouse/18.5 LCD and DELL Optiplex 390 Dual Core/2GBRam/500GBHDD/ DELL18.5LCD/keyboard mouse	30Hr	Mr.Madhur Borate	Lab Assistant	MCA
7	Ray Tomlinson (310)	20	DELL Optiplex 390 Ci3/4GBRam/500GBHDD/D ELL18.5LCD/keyboard mouse	24Hr	Ms.Bhakti More	Lab Assistant	Diploma in Computer Engineering

6.2Additional facilities created for improving the quality of learning experience in .laboratories (25)	TotalMarks25.00 InstituteMarks25.00

Sr.No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Internet Facility	Internet facility is available in each laboratory and WiFi facility in college campus	Seminar/Mini-projects/Assignments/Self Learning	Throughout year	Courses specified in Curriculum, to access Moodle	PO5, PO8,PO10 & PO12 PSOs 1
2	Smart Class Room	Intelligent Interactive Panel& projector facility with the seating capacity of 32	• Smart class room are utilized for animation and video lectures. • These digital teaching learning is more effective than traditional teaching	Throughout year	Courses specified in Curriculum like Artificial Intelligence, Deep Learning, Big Data Analytics, Business Intelligence etc.	PO5, PO8,PO10 PSO 1
3	NPTEL Local Chapter	Institute having NPTEL Local Chapter & server of NPTEL Content	• To keep student abreast with latest technology • To provide national level platform to student	Throughout year	To grasp important concept of various subjects and modern tools used in computer science and engineering.	PO 1,PO2,PO3,PO5 PSO1
4	Digital Library	IEEE Xplore Access	• To keep student abreast with latest technology • To provide national level platform to student	Throughout year	Project work	PO1, PO2, PO3, PO5, PO12 PSOs 1

5.	Language Laboratory	Institute having separate language laboratory for communication subjects like English.	Effective teaching learning for said subject and effective English communication	Throughout year	Communication Skills, Spoken Tutorial	PO5, PO8,PO10 & PO12 PSO 1
7.	Moodle Learning Management System	Institute having separate Moodle learning management system to provide digital content.	• For online digital record maintenance like attendance, examination results, feedback For sharing digital study material	Throughout year	Courses specified in Curriculum	PO5, PO8,PO10 PSO 1
8	Virtual Labs	Python Programming lab(IIT Kanpur), Data Structure Lab(IIT Hyderabad) Computer Programming Lab (IIT Hyderabad)	To provide advanced facilities	36 Hours/Week	Courses specified in Curriculum	PO1, PO2, PO3, PO5, PO12 PSO 1
9	Central Computing Facility	Ethernet/WiFi	Facility to staff and students for enhancing Teaching Learning	36 Hours/Week	Courses specified in Curriculum	PO5, PO8,PO10 & PO12 PSO 1
10	Spoken Tutorial	C,C++,Java Python programming IIT Bombay Spoken Tutorials	Deep knowledge of concept w.r.t. theory and practical	During practical sessions	Courses specified in Curriculum	PO1, PO2, PO3, PO5, PO12 PSO 1

11	Koha automation for library facility	Institute having separate Koha library	To provide automated fast service to student like searching, checking book availability, borrowing of books etc.	Throughout year	Courses specified in Curriculum	PO1,PO2,PO3,PO5 PSO1

6.3Laboratories:Maintenance and overall ambiance(10)	TotalMarks10.00 InstituteMarks10.00

Each laboratory maintains a dead stock register with details of all equipment's in laboratory.
On regular basis maintenance of laboratory is carried out by in-house maintenance engineer. One lab assistant is assigned for two labs. IT manager, network administrators are also available for smooth functioning IT infrastructure.

Maintenance and Records

6.3.1.1 Maintenances:

1) Do's and Don'ts and Safety measures rules are displayed in each laboratory.
2) Well trained Staffs are available for maintenance of systems and software breakdown/maintenance register is maintained in the laboratories.
3) Systems are serviced frequently and, on damage or malfunctions the parts are replaced immediately.
4) All necessary software for the smooth conducting of the lab are installed in respective labs
5) Network administrator looks after the networking, Wi-Fi connectivity.
6) All necessary PC system regular software like Microsoft office, browser, lab software; antivirus software etc., is installed and maintained.

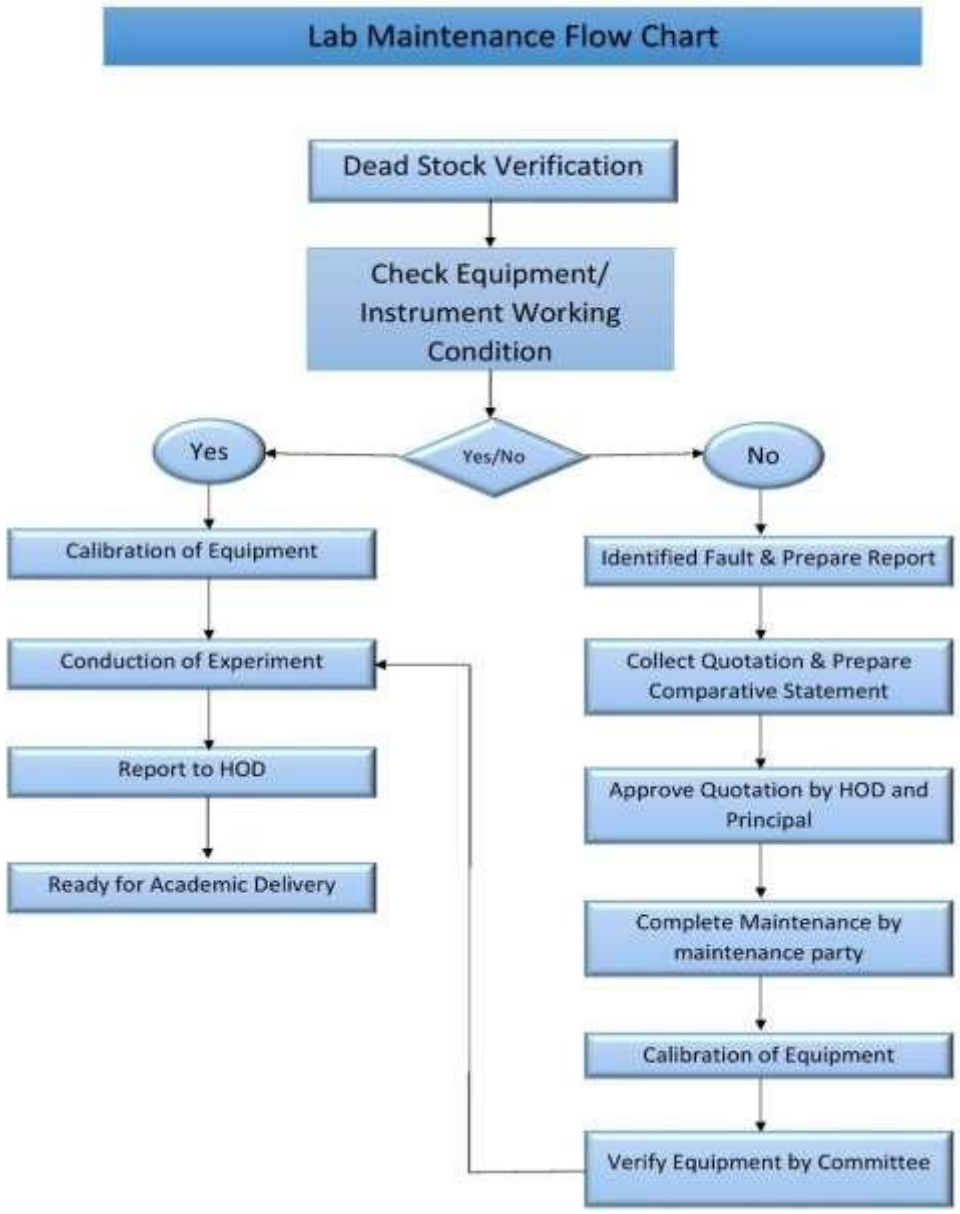
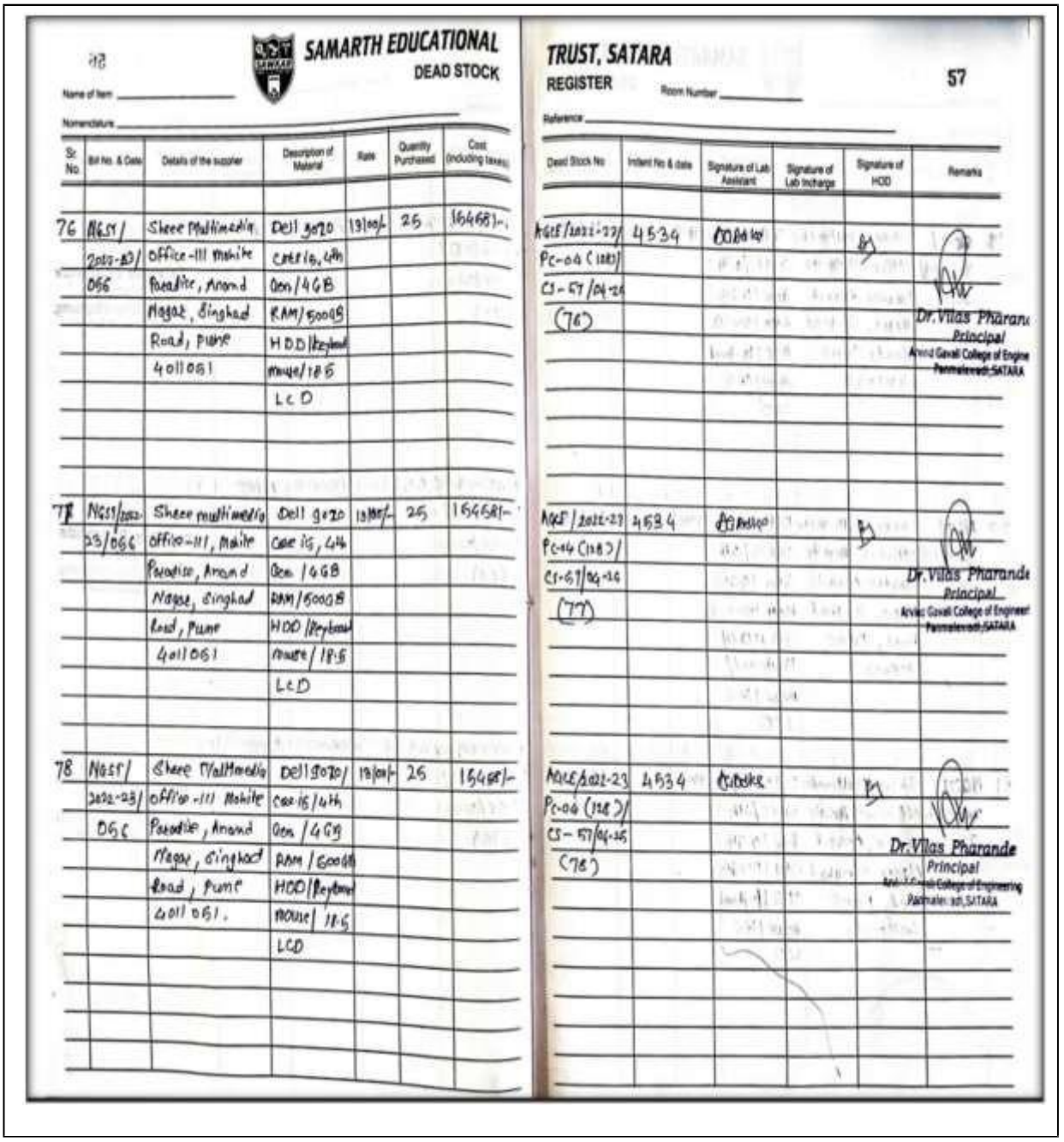


Figure 6.3.1.1 Flowchart for Maintenance of Laboratory

6.3.1.2 : Ambience

1) Laboratory area is spacious and furnished.
2) All laboratories have sufficient natural light and good ventilation.
3) Labs are also equipped with notice boards, black boards
4) Dusting and cleaning is done on regular basis

A] Sample of Dead Stock Register



SAMARTH EDUCATIONAL TRUST, SATARA

DEAD STOCK REGISTER

57

Sr No	Bill No. & Date	Details of the supplier	Description of Material	Rate	Quantity Purchased	Cost (including taxes)	Dead Stock No	Indent No & date	Signature of Lab Assistant	Signature of Lab Incharge	Signature of HOD	Remarks
76	AGSI/ 2022-23/ 056	Shree Multimedia, Office-III, Mobile Paradise, Anand Nagar, Singhad Road, Pune 411061	Dell 3020 Core i5, 4th Gen / 4GB RAM / 500GB HDD / Keyboard mouse / 18.5 LCD	13100/-	25	164681/-	AGSE/2022-23/ PC-04 (188)/ CS-57/04-16 (76)	4534				Dr. Vilas Pharande Principal Arvind Gavali College of Engineering Panmalewadi, SATARA
77	AGSI/2022-23/ 056	Shree multimedia, office-III, Mobile Paradise, Anand Nagar, Singhad Road, Pune 411061	Dell 3020 Core i5, 4th Gen / 4GB RAM / 500GB HDD / Keyboard mouse / 18.5 LCD	13100/-	25	164681/-	AGSE/2022-23 PC-04 (188)/ CS-57/04-16 (77)	4534				Dr. Vilas Pharande Principal Arvind Gavali College of Engineering Panmalewadi, SATARA
78	AGSI/ 2022-23/ 056	Shree Multimedia, Office-III, Mobile Paradise, Anand Nagar, Singhad Road, Pune 411061	Dell 3020/ Core i5/ 4th Gen / 4GB RAM / 500GB HDD / Keyboard mouse/ 18.5 LCD	13100/-	25	164681/-	AGSE/2022-23 PC-04 (188)/ CS-57/04-16 (78)	4534				Dr. Vilas Pharande Principal Arvind Gavali College of Engineering Panmalewadi, SATARA

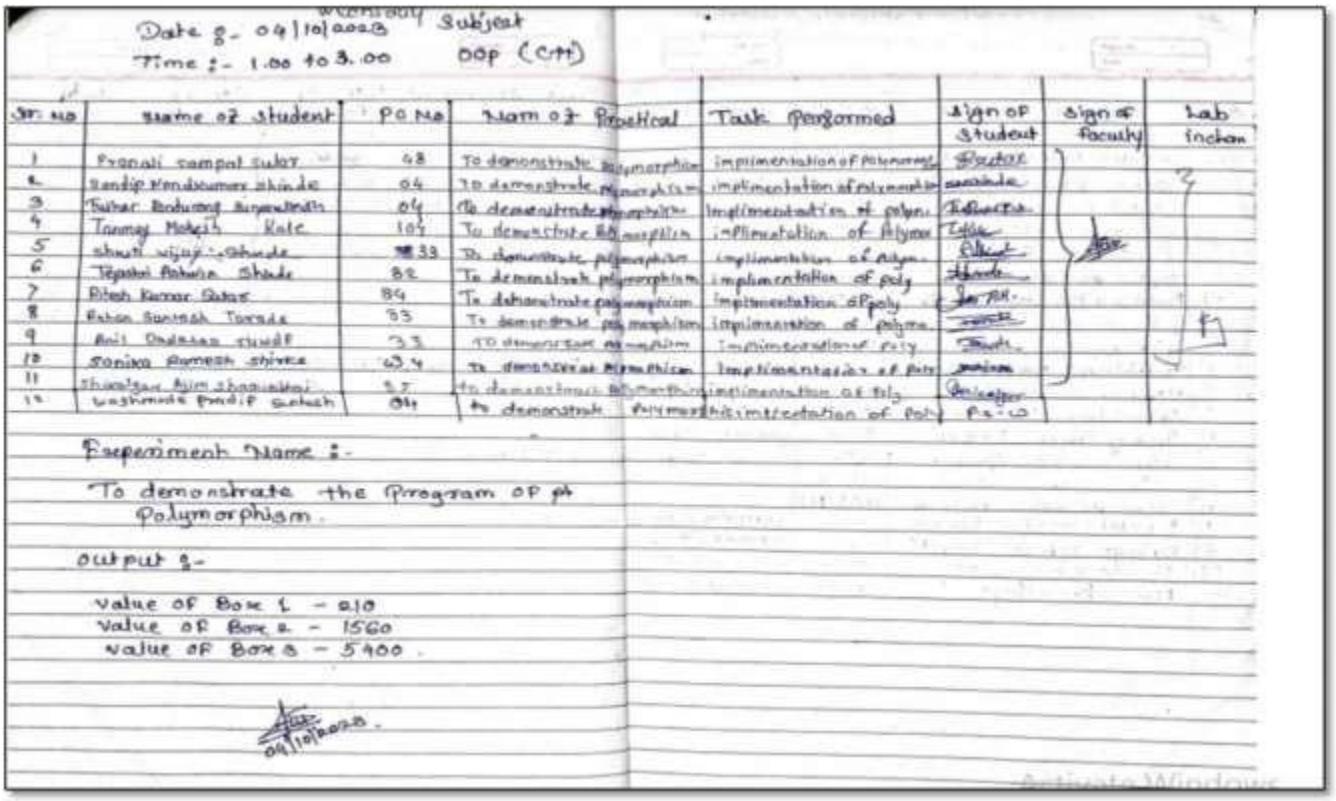
Figure B 6.3.2.1 a Sample of Dead Stock Register

B] Sample Lab Utilization:

Date: 05/10/2023 Thursday Subject: Seminar
Time: 9:30 to 11:15

Batch As System A

Sr.No	Name of student	Roll No	Name of Practical	Task Performed	Sign of Student	Sign of Faculty	Lab in charge
1)	Suyash Rajendra Kale	1066	Seminar group formation	[illegible]	[illegible]		
2)	Omkar Balasaheb Kratkar	1054	[illegible]	—	[illegible]		
3)	Sahil Ratnakar Kumbhar	1058	Seminar group formation	—	[illegible]		
4)	Shantanu Prasad Jangam		seminar	—	[illegible]		
5)	Prasit Kiran Gude	1062	Seminar group	—	[illegible]		
6)	Tripti Prakash Jirage	2064(PRN)	Seminar group formation	—	[illegible]		
7)	Pratiksha Mansing Mahadik	2058(PRN)	Seminar group formation	—	[illegible]		
8)	Ketki Balasaheb Tambe		Seminar group formation	—	[illegible]		
9)	Amiket pandurang Malavekar	1061	Seminar group formation	—	[illegible]		
10)	Madhindranath Suresh Masugade		Seminar group formation	—	[illegible]		
11)	Harshad Ratish Dere	1063	Seminar group formation	—	[illegible]		
12)	Sushant Kumar Mahamulkar	1059	Seminar group formation	—	[illegible]		
13)	Tanmay Girish Madhavi	1057	Seminar Group formation	—	[illegible]		
14)	Prem Jiwan Ghadage	1065	Seminar Group formation	—	[illegible]		
15)	Om Vishal Karade	1053	Seminar Group formation	—	[illegible]		
16)	Shravani Sudhir Kulkarni	2055(PRN)					
17)	Bhayal Manohar Bhusale	2076	seminar Group formation	—	[illegible]		
18)	Kshirsagar Neharika Tirupati	2073	seminar Group formation	—	[illegible]		
19)	Tarade Shreya Lahu	2067	Seminar group formation	—	[illegible]		
20)	Nawadkar Vijaya	2070	seminar group formation	—	[illegible]		



Date :- 04/10/2023 Wednesday Subject
Time :- 1.00 to 3.00 OOP (CH)

Sr. No	Name of student	PO No	Name of Practical	Task Performed	Sign of Student	Sign of Faculty	Lab in charge
1	Pranali Sampat Sular	48	To demonstrate polymorphism	implimentation of polymorphism	[illegible]		
2	Sandip Nandkumar Shinde	04	To demonstrate polymorphism	implimentation of polymorphism	[illegible]		
3	Tushar Bodurang Suryawanshi	04	To demonstrate polymorphism	implimentation of polym.	[illegible]		
4	Tanmay Mahesh Kale	104	To demonstrate polymorphism	implimentation of polymor	[illegible]		
5	Shruti Vijay Shinde	33	To demonstrate polymorphism	implimentation of polym.	[illegible]		
6	Tejashri Ashwin Shinde	82	To demonstrate polymorphism	implimentation of poly	[illegible]		
7	Ritesh Kumar Sutar	84	To demonstrate polymorphism	implimentation of poly	[illegible]		
8	Rahul Santosh Tarade	33	To demonstrate polymorphism	implimentation of polym.	[illegible]		
9	Anil Dadasao Suwal	33	To demonstrate polymorphism	implimentation of poly	[illegible]		
10	Sonika Ramesh Shirke	43.4	To demonstrate polymorphism	implimentation of poly	[illegible]		
11	Shivalgar Ajim Shamsukhai	37	To demonstrate polymorphism	implimentation of poly	[illegible]		
12	Washmade Pradip Santosh	04	To demonstrate polymorphism	implimentation of poly	[illegible]		

Experiment Name :-

To demonstrate the Program of polymorphism.

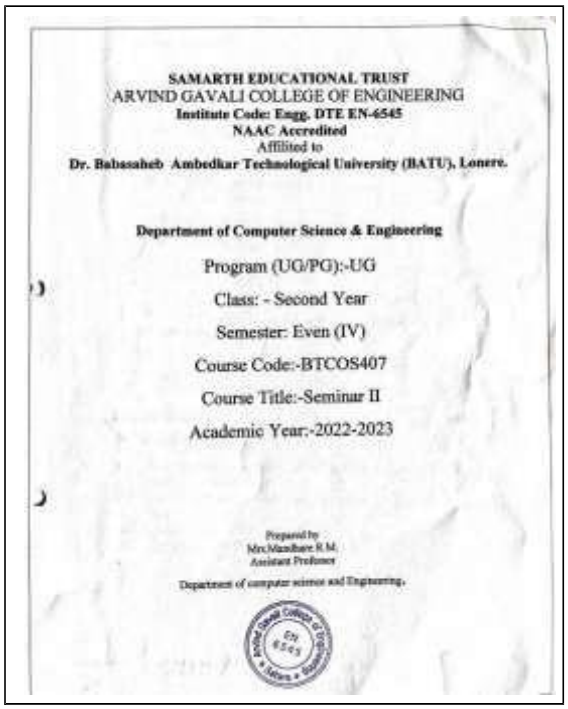
Output :-

Value of Box 1 - 210
Value of Box 2 - 1560
Value of Box 3 - 5400.

04/10/2023.

Figure B 6.3.2.1 b Sample Lab Utilization

C] Sample Lab Manual



SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
Institute Code: Engg. DTE EN-6545
NAAC Accredited
Affilited to
Dr. Babasaheb Ambedkar Technological University (BATU), Lonere.

Department of Computer Science & Engineering

Program (UG/PG):-UG

Class: - Second Year

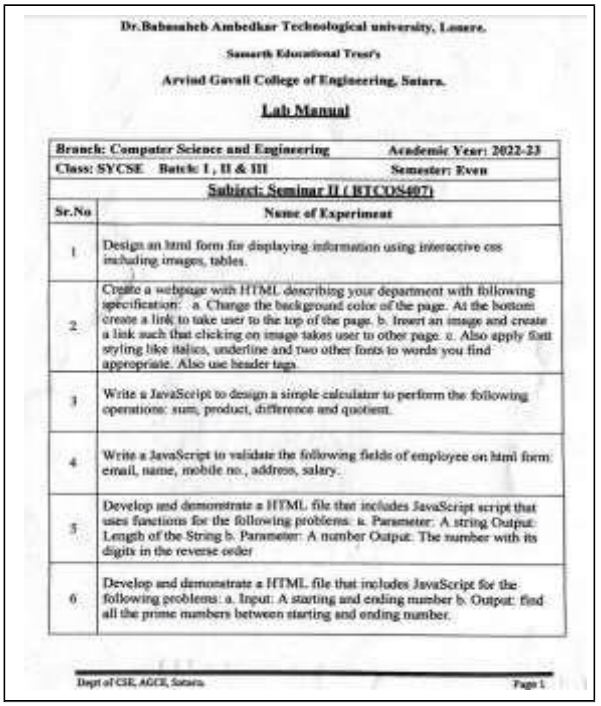
Semester: Even (IV)

Course Code:-BTCOS407

Course Title:-Seminar II

Academic Year:-2022-2023

Prepared by
Mr.Mandhare R.M.
Assistant Professor
Department of computer science and Engineering.



Dr.Babasaheb Ambedkar Technological university, Lonere.

Samarth Educational Trust's

Arvind Gavali College of Engineering, Satara.

Lab Manual

Branch: Computer Science and Engineering	Academic Year: 2022-23
Class: SYCSE Batch: I , II & III	Semester: Even
Subject: Seminar II (BTCOS407)	

Sr.No	Name of Experiment
1	Design an html form for displaying information using interactive css including images, tables.
2	Create a webpage with HTML describing your department with following specification: a. Change the background color of the page. At the bottom create a link to take user to the top of the page. b. Insert an image and create a link such that clicking on image takes user to other page. c. Also apply font styling like italics, underline and two other fonts to words you find appropriate. Also use header tags.
3	Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and quotient.
4	Write a JavaScript to validate the following fields of employee on html form: email, name, mobile no., address, salary.
5	Develop and demonstrate a HTML file that includes JavaScript script that uses functions for the following problems: a. Parameter: A string Output: Length of the String b. Parameter: A number Output: The number with its digits in the reverse order
6	Develop and demonstrate a HTML file that includes JavaScript for the following problems: a. Input: A starting and ending number b. Output: find all the prime numbers between starting and ending number.

Dept of CSE, AGCE, Satara. Page 1

Seminar II (BTCOS407) IV Semester, CSE

7	Write a PHP program to display a digital clock which displays the current time of the server.
8	Write a PHP program to implement sign-In and Sign-out functionality
9	Write a PHP program to keep track of the number of visitors visiting the Web page and to display this count of visitors, with proper headings
10	Write a PHP code to implement AJAX functionality
11	Write a PHP program to perform search operation on the student records using AJAX
12	Write a PHP program to sort the student records which are stored in the database using ascending/descending order.

Faculty AMC HOD

Head Computer Science & Engg.
Arvind Gavali College of Engg.
Pamalawadi

Course outcomes:

The students should be able to:

- Design and develop dynamic web pages with good aesthetic sense of designing and latest technical know-how's.
- Have a good understanding of Web Application Terminologies, Internet Tools other web services.
- Learn how to link and publish web sites using HTML,CSS,Javascript,PHP,JQuery,MySQL,AJAX.

Dept of CSE, AGCE, Satara. Page 2

Seminar II (BTCOS407) IV Semester, CSE

Experiment No. 1

Title: Design an html form for displaying information using interactive css including images, tables.

Aim: To study design an html form for displaying information using interactive css including images, tables.

Theory:

What is HTML Form :

HTML Form is a document which stores information of a user on a web server using interactive controls. An HTML form contains different kind of information such as username, password, contact number, email id etc.

The elements used in an HTML form are check box, input box, radio buttons, submit buttons etc. Using these elements the information of an user is submitted on a web server.

The form tag is used to create an HTML Form

The <form> tag is used to create an HTML form.

Input Element

This is the most commonly used element within HTML forms.

It allows you to specify various types of user input fields, depending on the type attribute. An input element can be of type *text field, password field, checkbox, radio button, submit button, reset button, file select box*, as well as several new input types introduced in HTML5.

The most frequently used input types are described below.

Text Fields

Text fields are one line areas that allow the user to input text.

Single-line text input controls are created using an <input> element, whose type attribute has a value of text. Here's an example of a single-line text input used to take username:

Password Field

Password fields are similar to text fields. The only difference is: characters in a password field are masked, i.e. they are shown as asterisks or dots. This is to prevent someone else from reading the password on the screen. This is also a single-line text input controls created using an <input> element whose type attribute has a value of password.

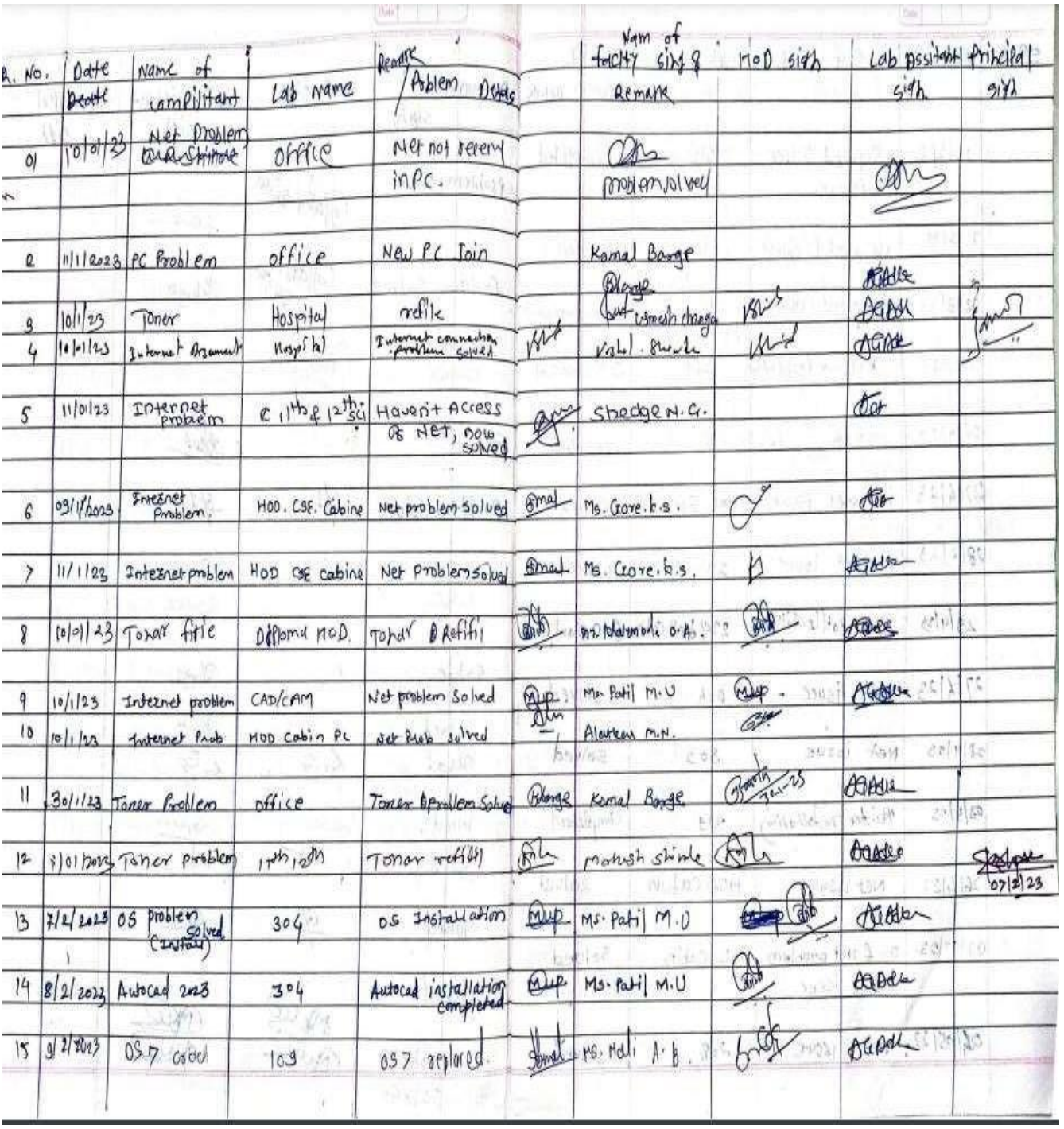
Radio Button

Radio buttons are used to let the user select exactly one option from a pre-defined set of options. It is created using an <input> element whose type attribute has a value of radio.

Dept of CSE, AGCE, Satara Page 3

Figure B 6.3.2.1 C Laboratory Manual

D] Sample Laboratory preventive and breakdown register:



R. No.	Date	Name of compilitant	Lab name	Remark / Problem Details		Nam of facity sign & Remark	HOD sign	Lab Assistant sign	Principal sign
01	10/01/23	Net Problem	office	Net not recevy in PC.		problem solved			
2	11/1/2023	PC Problem	office	New PC Join		Komal Barge			
3	10/1/23	Toner	Hospital	refile		Umesh charge			
4	10/01/23	Internet Assument	Hospital	Internet connection problem solved		Vishal Shinde			
5	11/01/23	Internet problem	c 11th & 12th sci	Haverit Access of NET, now solved		Shedge N.G.			
6	09/1/2023	Internet Problem.	HOD. CSE. Cabine	Net problem solved		Ms. Gore. K.S.			
7	11/1/23	Internet problem	HOD CSE cabine	Net Problem solved		Ms. Gore. K.S.			
8	10/01/23	Tonar fitie	Diploma HOD.	Tonar Refifil		Mr. Mahamode O.A.			
9	10/1/23	Internet problem	CAD/CAM	Net problem solved		Ms. Patil M.U			
10	10/1/23	Internet Prob	HOD Cabin PC	Net Prob solved		Alankar M.N.			
11	30/1/23	Toner Problem	office	Toner problem Solved		Komal Barge	30-1-23		
12	1/01/2023	Toner problem	11th, 12th	Tonar refifil		Mahesh Shinde			07/2/23
13	7/2/2023	OS problem solved (Install)	304	OS Installation		Ms. Patil M.U			
14	8/2/2023	Autocad 2023	304	Autocad installation completed		Ms. Patil M.U			
15	9/2/2023	OS 7 crack	103	OS 7 replaced		Ms. Mali A.B.			

Figure B 6.3.2.1 d Sample Laboratory Preventive and Breakdown Register

E] Sample Lab Time Table:

Samarth Education Trust's

Arvind Gavali College of Engineering

At- Panmalewadi, Post-Varye, Satara.

LAB-TIME - TABLE Academic Year 2022-23[ODD Sem]

Lab Name : Web Technology **Total Lab Load:14**

Lab Incharge:Ms. Mulla S. Y **Lab Room No.-WW-206**

TIME / DAY	9:30-10:30	10:30-11:30	11:30-12:30	12:30-1:10	1:10-2:10	2:10-3:10	3:10-3:30	3:30-4:30	4:30-5:30
Monday	S3:OOP(PPA)							T1:SL	
Tuesday	S1:OOP(PPA)				S2:OOP(PPA)				
Wednesday				LUNCH BREAK			RECESS	T2:MP(YKS)	
Thursday	T1:SEL(GVB)				S1:SEMI(MSY)				
Friday									

Subject Name
SEMI: Seminar
OOP: Object Oriented Programming
MP:Mini Project

Subject Incharge
MSY(Ms.Mulla S.Y)
PPA(Mr. Pathak P.A)
YKS(Mrs.Yadav K.S)

(Miss. Mulla S.Y)
Time Table Coordinator

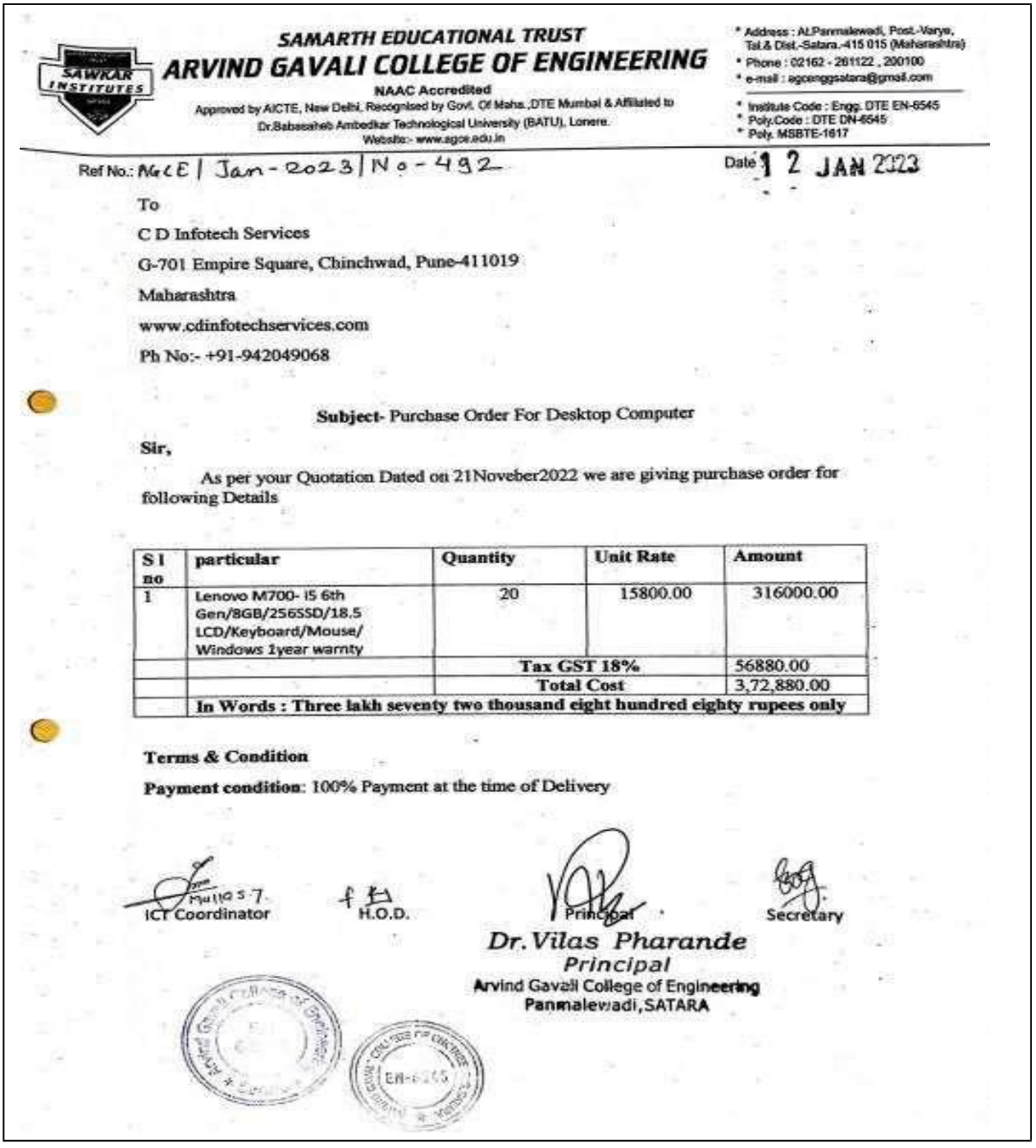
(Miss. Mulla S.Y)
Lab Incharge

(Dr.Shinde S.B)
HOD CSE

Head Computer Science & Eng
Arvind Gavali College of Engg
Panmalewadi

Figure B 6.3.2.1 e Sample Laboratory Time Table

F] Sample Purchase Orders and Bills:



SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
NAAC Accredited
Approved by AICTE, New Delhi, Recognised by Govt. Of Maha.,DTE Mumbai & Affiliated to Dr.Babasaheb Ambedkar Technological University (BATU), Lonere.
Website:- www.agce.edu.in

* Address : At.Panmalewadi, Post.-Varye, Tal.& Dist.-Satara.-415 015 (Maharashtra)
* Phone : 02162 - 261122 , 260100
* e-mail : agceenggsatara@gmail.com
* Institute Code : Engg. DTE EN-6545
* Poly.Code : DTE DN-6545
* Poly. MSBTE-1617

Ref No.: AGCE | Jan-2023 | No-492 Date 12 JAN 2023

To
C D Infotech Services
G-701 Empire Square, Chinchwad, Pune-411019
Maharashtra
www.cdinfotechservices.com
Ph No:- +91-942049068

Subject- Purchase Order For Desktop Computer

Sir,

As per your Quotation Dated on 21Noveber2022 we are giving purchase order for following Details

Sl no	particular	Quantity	Unit Rate	Amount
1	Lenovo M700- I5 6th Gen/8GB/256SSD/18.5 LCD/Keyboard/Mouse/ Windows 1year warnty	20	15800.00	316000.00
		Tax GST 18%		56880.00
		Total Cost		3,72,880.00
	In Words : Three lakh seventy two thousand eight hundred eighty rupees only			

Terms & Condition

Payment condition: 100% Payment at the time of Delivery

ICT Coordinator H.O.D. Principal Secretary

Dr. Vilas Pharande
Principal
Arvind Gavali College of Engineering
Panmalewadi, SATARA

Figure B 6.3.2.1 f Sample Purchase Orders and Bills

A] Sample consumable material record at department level:

6.4Project laboratories (5)	TotalMarks5.00 InstituteMarks5.00

Department of Computer Science & Engineering has one separate dedicated project laboratory. This laboratory exclusively used for project work. The project lab has licensed software such as Windows operating system, Oracle, Visual Studio, Antivirus etc. Department also promote use of open source software such as Ubuntu, Network Simulators, Mat lab, Python etc. The project lab is equipped with computer system & Internet facility.

Sr. No.	Name of Lab	Name of equipment	No. of Machines	Specification	Software Installed
1	Ray Tomlinson (Project Lab 310)	Computers	25	DELL Optiplex 390 Ci3/4GBRam/500 GBHDD/DELL18. 5LCD/keyboard Mouse	Windows OS, Visual Studio, Oracle, Antivirus software, Turbo C++,

Project Lab Utilization:

- Project labs are utilized for project work by students.
- The students utilize the lab facility for making presentation, development of mini and major projects
- In the free time the students utilize the lab facilities for surfing on internet to gain new knowledge, ideas regarding project work.

Figure B 6.4 a Project Demonstration

6.5 Safety measures in laboratories (10)	TotalMarks10.00 InstituteMarks10.00

Sr. No	Laboratory Name	Safety Measures
1	ML Laboratory	1) Safety instructions are placed in lab notice board. 2) Only safe, secure, authentic & trusted web sites are permitted to access in laboratory. 3) The fire extinguishers are installed near labs, staff and students are trained to use them in case of an emergency. 4) Systems and electrical fitting checking is carried by technician frequently. 5) For emergency of electrical issue MCVs are mounted in all power lines. Separate earthling for lab has been provided. 6) Water house reels are provided in the corridor in case of some major fire situations. 7) All laboratories are fully ventilated along with full light and fan arrangement. 8) Each laboratory maintains student entry register. 9) One teaching faculty and lab assistant are in-charge of the overall maintenance of lab.
2	Software Engineering /Operating System Laboratory	
3	Programming Laboratory	
4	Database Engineering Laboratory	
5	Web technology laboratory	
6	Network Laboratory	
7	Project Laboratory	

Safety measures in laboratories:-

Fire Estinguisher

Do's and Don'ts Displayed on Notice board in laboratory

CRITERION 07	CONTINUOUS IMPROVEMENT	50

7.1 Actions taken based on the results of evaluation of each of the POs & PSOs (20)

POs and PSOs Attainment Levels and Actions for improvement: 2022-23

PO/PSO	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Target	2.34	2.28	2.40	2.07	2.31	1.97	1.90	2.06	2.13	2.16	1.96	1.93	1.94	1.79
Attainment	2.62	2.51	2.51	2.51	2.52	2.43	2.33	2.33	2.29	2.34	2.34	2.41	2.20	2.11

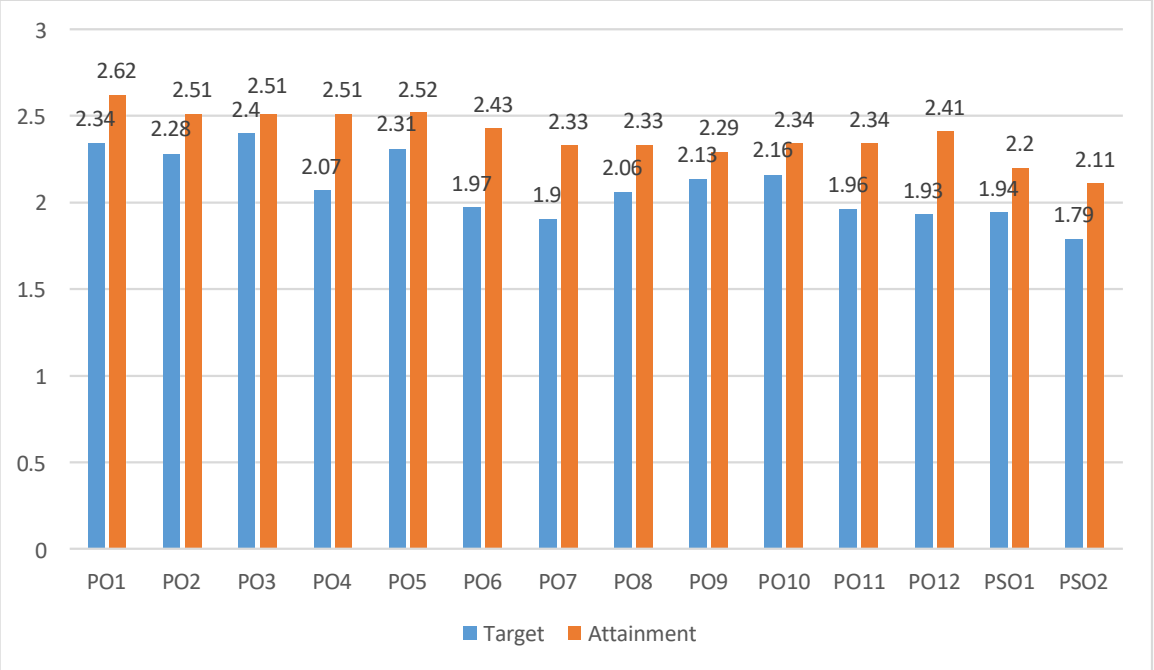


Fig. 7.1a PO Target vs. PO Attainment for year 2022-23

PO's	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: Apply knowledge of mathematics, science and engineering to solve engineering problems			

PO1	2.34	2.62	Target achieved due to knowledge of engineering & basic concept
Action1:Separate class is arranged for all direct second year admitted students to cover entire syllabus from starting with prerequisites Action2:More emphasis given on assignment solving ,discussed case studies and puzzles			
PO2: Problem analysis: Identify, formulate and analyses engineering problems			

PO2	2.28	2.51	1.Attained ,First and second year students gain problem solving and analyzing skills through various basic courses like engineering mathematics III, Numerical methods & programming, Probability & Statistics, Discrete Mathematics
Action1:Students are asked to solve different numerical assignments to identify, formulate and analyze engineering problems Action2:Remedial coaching is provided for slow learners for subject like mathematics-III Action3:Effects made for development of mini projects			
PO3: Design/development of solutions: Design and develop solution for systems or processes that meet the specified needs for health & safety, cultural, societal and environmental considerations			
PO3	2.40	2.51	1. Attained, Few courses like Projects, Audit Courses(Basic Human Rights),National Social Services (Open Elective) covers specific needs for health & safety, cultural, societal and environmental considerations, • Some of the projects developed by the students are partially consider the environmental and social concerns • Different activities carried out under NSS Camp like tree plantation, no vehicle day, blood donation camp, swachta abhiyan contributed for wellness of society
Action 1: Computer Science and Engineering students are involved in various social events organized by department like tree plantation, no vehicle day, blood donation camp, swachta abhiyan. Action 2: NSS organizes regularly various events such as PUC camp, Women's Safety app project, traffic awareness program etc. Action 3: Expert sessions are organized through different professionals of the society.			
PO4: Conduct investigations of problems: Design and Conduct experiments as well as to analyze and interpret data to provide valid conclusions			

PO4	2.07	2.51	1. University Curriculum directly less contributing to attainment of this PO. 2.Attainment achieved through indirect attainment
Action 1 : Students are exposed to practical problems through Hackathon, Industry Sponsor projects and Project based learning Action 2: More focus on planning and execution of Internship has been Initiated			
PO5: Modern tool usage: Use the techniques, skills and modern engineering tools necessary practice			
PO5	2.31	2.52	1. Attained in most of subjects use of open source tool is encouraged 2. It is observed good attainment is achieved for PO5
Action 1: All faculty members of department focusing on utilizing digital modern tools for effective teaching which includes online expert/industrial talks, spoken tutorial, virtual labs, MOOC courses like NPTEL, Coursera etc. Action 2: Department also focuses on availability of modern equipment & tools like availability Intelligent Interactive Panel and projectors in classroom ,industrial training, industry supported labs helped to attain PO5			

PO6: The engineer and society: Apply the broad education necessary to understand the impact of engineering solutions in a global, economic and societal context			
PO6	1.97	2.43	1. Attained students focused on limited real life problem 2. It is observed that incorporation of responsibilities towards solving societal and health issues needs to be focused.
Action 1: To understand the safety concerns and social aspects, open elective course (National Social Service) selected, soft skills and skill development courses like business communication and social network are preferred for electives. Action 2: Projects based on environment, healthcare, security and social issues was emphasized. Action 3: Industry visit and industry internship, industry expert talk are arranged to make student aware about IT sector problems.			
PO7: Environment and sustainability: Understand the impact of engineering solutions in environmental contexts and demonstrate the need of sustainable development			
PO7	1.90	2.33	1.Target is achieved 2.Gap is observed in curriculum related to environment and sustainability

<table>
<tr><td colspan="4">Action 1: Different initiatives such as tree plantation, no vehicle day, PUC camp organized

Action 2: Promoted paperless work through online submission to moodle and use of one sided paper for notices on notices board etc.</td></tr>
<tr><td colspan="4">PO8: Ethics: Carry out professional and ethical responsibility</td></tr>
<tr><td>PO8</td><td>2.06</td><td>2.33</td><td>1. Target is achieved through good margin

2. University curriculum has less inclusion of courses related to ethics

3. Students practice ethical values through academic activity.</td></tr>
<tr><td colspan="4">Action 1: Separate GFM (Guardian Faculty Member) is appointed for batch of 20 Student for personal issues address, for counselling, for teaching ethics.

Action 2: Different industry culture awareness programs are organized to make students aware about industrial ethics which includes session on paper publication, IPR, Plagiarism free content in seminar and project report.

Action 3: Institute student have proper uniform which indirectly contribute to teach ethical values of uniformity.</td></tr>
<tr><td colspan="4">PO9: Individual and Team work: Function effectively as an individual and as a member or leader in multidisciplinary activities</td></tr>
<tr><td>PO9</td><td>2.13</td><td>2.29</td><td>1.Attained,interpersonal and intrapersonal communication is achieved through various curricular and extracurricular activities 2.Courses like seminar, project, business communication, project based learning courses involve individual and team work</td></tr>
</table>

Action 1: Continues presentations are kept for seminar and project to enhance individual and team work

Action 2: Encouragement to participate in various state/national, zonal, university level competition of project, sports. Participation in social activities. Various days/event origination and management by students only helped them to grow as an individual and to cooperate in team.

Action 3: Tarunai- student's annual cultural program is organized every year wherein students actively participate to showcase their skill as an individual and as team

Action 4: Industrial visit helps them to know various technical components.

PO10: Communication: Communicate effectively with engineering community and society at large

PO10	2.16	2.34	1. Attained through students get acquainted with professional communication through subjects like business communication, spoken english,C2C activity 2. Skills of documentation, communication, presentation during project and seminar is satisfactory but due to rural background there is scope for improvement.

Action 1: In academic time table separate time slot allotted for soft skill improvement session. Special couch is appointed for the same.

Action 2: Student participated in various online soft skill development courses offered by various MOOC platforms like NPTEL, Coursera.

Action 3: Different cultural events, sports, social activities, project competition, industrial visits, Industrial training contributed in students soft skill development

PO11: Project management and finance: Demonstrate engineering and management principles to carry out projects in multidisciplinary environment, as a member/leader in a team

PO11	1.96	2.34	1.PO is attained 2. Students are able to apply knowledge and understanding of the engineering and management principles to their project work, as a member and are able to work effectively in a team.

Action 1: Department student participated in various competition project competition and secured prizes.

Action 2: Department is having MOUs with various industries. Number of projects are industry sponsored projects which helps student to learn project management and finance

PO12: Lifelong learning: Recognize the need for and an ability to engage in life-long learning			
PO12	1.93	2.41	1. Target is Achieved 2. Student acquire ability to learn new development platform, technology ,programming language
Action 1: Students are encouraged to do MOOC courses like NPTEL, Coursera etc Action 2: Students participation in various activities like extracurricular, project competition developed their lifelong learning ability			
PSO1 Ability to learn latest software technology in the area of computer science & engineering			
PSO1	1.94	2.20	Attained, Emphasis given on domain based learning such as web technology, IOT, artificial intelligence etc through internship ,project and seminars
Action 1: Student are guided and directed to apply knowledge of core computer science subjects and latest technology in their projects. Action 2: Industry/Academic Expert's lecturers from industry are organized for various courses Action 3: Department proved different facilities to encourage bright students which involves advanced courses of NPTEL, Coursera. Action 4: Weak students are supported through various activities like personal counselling, action plan as per there weakness, remedial classes, to solve questions of previous year's papers			
PSO2 Ability to develop software solution for catering to the environmental and societal needs.			
PSO2	1.79	2.11	Attained, Courses such as Full Stack Development, Machine Learning, Artificial Intelligence, and Internet of Things helped to develop software solution.
Action 1: More emphasis is given on student's exposer to industry culture through industrial visit, internship, industry mentorship for project, Industry expert's sessions Action 2: Created awareness among student about environmental and societal needs through activities included in open elective national social services, core subject basic human rights. Action 3: Students are guided to use latest technology like AI.ML, IOT and use them in their projects by considering societal and environmental need.			

POs and PSOs Attainment Levels and Actions for improvement: 2021-22

PO/PSO	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Target	2.27	2.21	2.30	1.94	2.26	2.06	1.93	1.75	2.07	2.11	1.95	2.03	1.99	1.77
Attainment	2.67	2.64	2.69	2.66	2.67	2.61	2.70	2.73	2.76	2.76	2.62	2.66	2.66	2.62

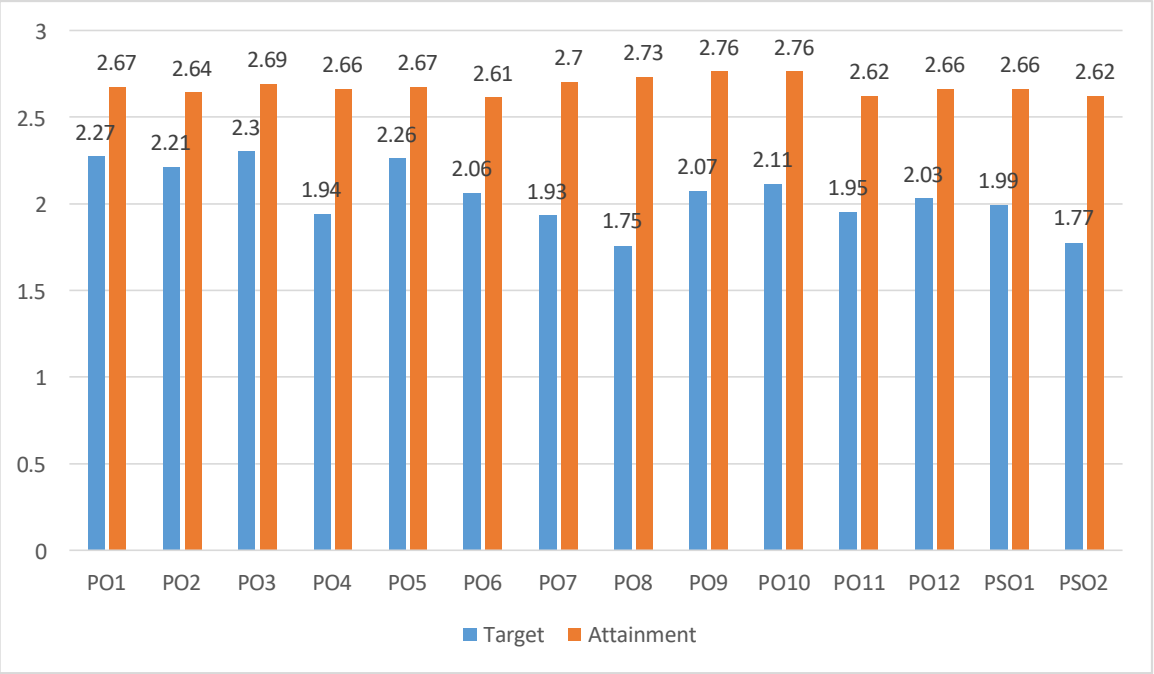


Fig. 7.1b PO Target vs. PO Attainment for year 2021-22

PO's	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: Apply knowledge of mathematics, science and engineering to solve engineering problems			
PO1	2.27	2.67	Target is accomplish, projects and seminars has been included to the curriculum to help students understand engineering
Action 1: Expert lecture series is arranged to strengthen basic core engineering courses.			
PO2: Problem analysis: Identify, formulate and analyses engineering problems			

PO2	2.21	2.64	Target is attained.
Action 1: More emphasis is given on problem analysis, idea generation.			
PO3: Design/development of solutions: Design and develop solution for systems or processes that meet the specified needs for health & safety, cultural, societal and environmental considerations			
PO3	2.30	2.69	Target is attained, students has identify real life problem statements and found its solution through development.
Action: 1. More focus will be given to critical thinking, experiment and solving daily life problem using modern technology tool. **PO4: Conduct investigations of problems:** Design and Conduct experiments as well as to analyze and interpret data to provide valid conclusions			
PO4	1.94	2.66	Target is attained. The student were assigned to do case study of industry scenario and present it during industry visit.
Action: 1. Use of NPTEL as teaching resources has been implemented.			
PO5: Modern tool usage: Use the techniques, skills and modern engineering tools necessary practice			
PO5	2.26	2.67	Target is attained. Use of practical oriented approach for implementation of techniques.
Action 1: More thrust will be given for the use various modern tools like prolog, tenserflow and other star UML, edraw MAX.			

PO6: The engineer and society: Apply the broad education necessary to understand the impact of engineering solutions in a global, economic and societal context			
PO6	2.06	2.61	Target is attained. The main aim of Engineer is to solve society related technical problems through their technical skills.

Action 1: A strong bond will be forged with the society by addressing their needs by taking activities like exhibition, group discussion on societal related Engineering problems and professionalism are organized.			
PO7: Environment and sustainability: Understand the impact of engineering solutions in environmental contexts and demonstrate the need of sustainable development			
PO7	1.93	2.70	Target is attained. Concern of students towards the environmental issues are incredible. Students approach towards the sustainable growth is developed.
Action: 1. The various environmental issues such as global warming, pollution, E-waste will be highlighted by conducting various awareness programs.			
PO8: Ethics: Carry out professional and ethical responsibility.			
PO8	1.75	2.73	Target is attained. The awareness and importance's about ethics and principles of professionalism has been create
Action: 1. The importance of ethical behavior in engineering students, will be emphasized and expert talks on ethics in engineering domain will be organized.			
PO9: Individual and Team work: Function effectively as an individual and as a member or leader in multidisciplinary activities			
PO9	2.07	2.76	Target is attained. It is observed that the students are working as a team while performing mini project, final projects, addressing industrial problems through solution.

Action 1: Soft skills programs and expert lecture will be arranged to highlight its importance and necessity in daily life and also industry in particular.			
PO10: Communication: Communicate effectively with engineering community and society at large			
PO10	2.1	2.76	1. Attained through students get acquainted with professional communication through subjects like business communication, spoken english,C2C activity 2. Skills of documentation, communication, presentation during project and seminar is satisfactory but due to rural background there is scope for improvement.
Action 1: In academic time table separate time slot allotted for soft skill improvement session. Special couch is appointed for the same. Action 2: Student participated in various online soft skill development courses offered by various MOOC platforms like NPTEL, Coursera. Action 3: Different cultural events, sports, social activities, project competition, industrial visits, Industrial training contributed in students soft skill development			
PO11: Project management and finance: Demonstrate engineering and management principles to carry out projects in multidisciplinary environment, as a member/leader in a team			
PO11	1.95	2.62	Target is attained. The students has adequate knowledge of project management and budget of it
Action: 1 Mini projects from second and third year helps students to cultivate managerial skills and to clarify the fundamental of Engineering with getting ideas to calculate budget for the completion of Projects.			
PO12: Lifelong learning: Recognize the need for and an ability to engage in life-long learning			
PO12	2.03	2.66	Target is attained. The concept of lifelong learning is inculcated amongst the students.
Action: 1. Students will be motivated to participate in co-curricular and extracurricular activities. 2. Expert lectures of various fields and career development programs will be arranged.			
PSO1 Ability to learn latest software technology in the area of computer science & engineering			

PSO1	1.99	2.66	Attained, Emphasis given on domain based learning such as web technology, IOT, artificial intelligence etc through internship ,project and seminars

Action 1: Student are guided and directed to apply knowledge of core computer science subjects and latest technology in their projects.

Action 2: Industry/Academic Expert's lecturers from industry are organized for various courses

Action 3: Department proved different facilities to encourage bright students which involves advanced courses of NPTEL, Coursera.

Action 4: Weak students are supported through various activities like personal counselling, action plan as per there weakness, remedial classes, to solve questions of previous year's papers

PSO2 Ability to develop software solution for catering to the environmental and societal needs.

PSO2	1.77	2.62	Attained, Courses such as Full Stack Development, Machine Learning, Artificial Intelligence, and Internet of Things helped to develop software solution.

Action 1: More emphasis is given on student's exposer to industry culture through industrial visit, internship, industry mentorship for project, Industry expert's sessions

Action 2: Created awareness among student about environmental and societal needs through activities included in open elective national social services, core subject basic human rights.

Action 3: Students are guided to use latest technology like AI.ML, IOT and use them in their projects by considering societal and environmental need.

POs and PSOs Attainment Levels and Actions for improvement: 2020-21

PO/PSO	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Target	2.19	2.21	2.41	2.17	2.45	2.10	1.95	2.17	2.25	2.31	2.18	2.21	1.91	1.84
Attainment	2.64	2.59	2.56	2.48	2.59	2.56	2.53	2.58	2.54	2.54	2.48	2.58	2.49	2.52

Fig. 7.1c PO Target vs. PO Attainment for year 2020-21

PO's	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: Apply knowledge of mathematics, science and engineering to solve engineering problems			
PO1	2.19	2.64	Target achieved due to knowledge of engineering & basic concept

Action1:Separate lectures is arranged for all direct second year admitted students to cover entire syllabus from starting with prerequisites Action2: More efforts given on assignment solving, questions papers discussions.
PO2: Problem analysis: Identify, formulate and analyses engineering problems

PO2	2.21	2.59	1.Attained ,First, second and third year students obtain analyzing engineering problems skills through various basic courses like engineering mathematics III, Numerical methods, Probability & Statistics, Discrete Mathematics,
Action 1: Students are asked to solve different numerical assignments to identify, formulate and analyze engineering problems Action 2: Remedial coaching is provided for slow learners for subject like mathematics-III, probability and stats Action 3: Efforts made for development of mini projects and seminars.			
PO3: Design/development of solutions: Design and develop solution for systems or processes that meet the specified needs for health & safety, cultural, societal and environmental considerations			
PO3	2.41	2.56	1. Attained, Few courses like Projects, Audit Courses (Basic Human Rights),National Social Services (Open Elective) covers specific needs for health & safety, cultural, societal and environmental considerations, • Some of the projects developed by the students are partially consider the environmental and social concerns • Different activities carried out under NSS Camp like tree plantation, no vehicle day, blood donation camp, swachta abhiyan contributed for wellness of society
Action 1: Computer Science and Engineering students are involved in various social events organized by department like tree plantation, no vehicle day, blood donation camp, swachta abhiyan. Action 2: NSS organizes regularly various events such as PUC camp, Women's Safety measure workshop, traffic awareness program. Geo tagging. etc. Action 3: Expert sessions are organized through different professionals of the societal needs.			
PO4: Conduct investigations of problems: Design and Conduct experiments as well as to analyze and interpret data to provide valid conclusions			

PO4	2.17	2.48	1. University Curriculum directly less contributing to attainment of this PO. 2.Attainment achieved through indirect attainment
Action 1 : Students are exposed to practical problems through participating Hackathon, Dipex ,Industry Sponsor projects and Project based learning competitions. Action 2: More efforts on planning and execution of Internship has been Initiated through TPC.			
PO5: Modern tool usage: Use the techniques, skills and modern engineering tools necessary practice			
PO5	2.45	2.59	1. Attained in most of subjects use of open source tool is encouraged 2. It is observed good attainment is achieved for PO5
Action 1: All faculty members of department focusing on utilizing digital modern tools for effective teaching which includes online expert/industrial talks, spoken tutorial, virtual labs, challenge wall problems, youtube channels, MOOC courses like NPTEL, Coursera etc. Action 2: Department also focuses on availability of modern equipment & tools like availability Intelligent Interactive panel and projectors in classroom ,industrial training, industry supported labs and various teaching aids and methods helped to attain PO5.			

PO6: The engineer and society: Apply the broad education necessary to understand the impact of engineering solutions in a global, economic and societal context			
PO6	2.10	2.56	1. Attained students focused on limited real life problem 2. It is observed that incorporation of responsibilities towards solving societal and health issues needs to be focused.
Action 1: To understand the safety concerns and social aspects, open elective course (National Social Service) selected, soft skills and skill development courses like business communication and social network are preferred for electives. Action 2: Projects based on environment, healthcare, security and social issues was emphasized. Action 3: Industry visit and industry internship, industry expert talk are arranged to make student aware about IT sector problems.			
PO7: Environment and sustainability: Understand the impact of engineering solutions in environmental contexts and demonstrate the need of sustainable development			
PO7	1.95	2.53	1.Target is achieved

<table>
<tr><td colspan="4">Action 1: Different initiatives such as tree plantation, no vehicle day, PUC camp etc organized

Action 2: Promoted paperless work through online submission to moodle and use of one sided paper for notices on notices board etc.</td></tr>
<tr><td colspan="4">PO8: Ethics: Carry out professional and ethical responsibility</td></tr>
<tr><td>PO8</td><td>2.17</td><td>2.58</td><td>1. Target is achieved through good margin

2. University curriculum has less inclusion of courses related to ethics

3. Students practice ethical values through academic activities</td></tr>
<tr><td colspan="4">Action 1: Separate GFM (Guardian Faculty Member) is appointed for batch of 20 Student for personal issues address, for counselling, for teaching ethics.

Action 2: Different industry culture awareness programs are organized to make students aware about industrial ethics which includes session on paper publication, IPR, Plagiarism free content in seminar and project report.

Action 3: Institute student have proper uniform which indirectly contribute to teach ethical values of uniformity</td></tr>
<tr><td colspan="4">PO9: Individual and Team work: Function effectively as an individual and as a member or leader in multidisciplinary activities</td></tr>
<tr><td>PO9</td><td>2.25</td><td>2.54</td><td>1. Attained,interpersonal and intrapersonal communication is achieved through various curricular and extracurricular activities
2. Courses like seminar, project, business communication, project based learning courses involve individual and team work</td></tr>
</table>

Action 1: Continues presentations are kept for seminar and project to enhance individual and team work

Action 2: Encouragement to participate in various state/national, zonal, university level competition of project, sports. Participation in social activities. Various days/event origination and management by students only helped them to grow as an individual and to cooperate in team.

Action 3: Tarunai- student's annual cultural program is organized every year wherein students actively participate to showcase their skill as an individual and as team

Action 4: Industrial visit helps them to know various technical concepts.

PO10: Communication: Communicate effectively with engineering community and society at large

PO10	2.31	2.54	1. Attained through students get acquainted with professional communication through subjects like business communication, spoken english,C2C activity 2. Skills of documentation, communication, presentation during project and seminar is satisfactory but due to rural background there is scope for improvement.

Action 1: In academic time table separate time slot allotted for soft skill improvement session. Special couch is appointed for the same.

Action 2: Student participated in various online soft skill development courses offered by various MOOC platforms like NPTEL, Coursera.

Action 3: Different cultural events, sports, social activities, project competition, industrial visits, Industrial training contributed in students soft skill development

PO11: Project management and finance: Demonstrate engineering and management principles to carry out projects in multidisciplinary environment, as a member/leader in a team

PO11	2.18	2.48	1.PO is attained 2. Students are able to apply knowledge and understanding of the engineering and management principles to their project work, as a member and are able to work effectively in a team.

Action 1: Department student participated in various competition project competition and secured prizes.

Action 2: Department is having MOUs with various industries. Number of projects are industry sponsored projects which helps student to learn project management and finance

PO12: Lifelong learning: Recognize the need for and an ability to engage in life-long learning

PO12	2.21	2.58	1. Target is Achieved 2. Student acquire ability to learn new development platform, technology ,programming language
Action 1: Students are encouraged to do MOOC courses like NPTEL, Coursera etc Action 2: Students participation in various activities like extracurricular, project competition developed their lifelong learning ability.			
PSO1 Ability to learn latest software technology in the area of computer science & engineering			

PSO1	1.91	2.49	Attained, Emphasis given on domain based learning such as web technology, IOT, artificial intelligence etc through internship ,project and seminars
Action 1: Student are guided and directed to apply knowledge of core computer science subjects and latest technology in their projects. Action 2: Industry/Academic Expert's lecturers from industry are organized for various courses Action 3: Department proved different facilities to encourage bright students which involves advanced courses of NPTEL, Coursera. Action 4: Weak students are supported through various activities like personal counselling, action plan as per there weakness, remedial classes, to solve questions of previous year's papers			
PSO2 Ability to develop software solution for catering to the environmental and societal needs.			
PSO2	1.84	2.52	Attained, Courses such as Full Stack Development, Machine Learning, Artificial Intelligence, and Internet of Things helped to develop software solution.
Action 1: More emphasis is given on student's exposer to industry culture through industrial visit, internship, industry mentorship for project, Industry expert's sessions Action 2: Created awareness among student about environmental and societal needs through activities included in open elective national social services, core subject basic human rights. Action 3: Students are guided to use latest technology like AI.ML, IOT and use them in their projects by considering societal and environmental need.			

7.2 Academic audit and actions taken thereof during the period of assessment (10)

Institution efficiently plans and monitors the activities for the effective implementation of the curriculum. Every faculty member gives a choice of the subjects for the new semester as per their expertise. Academic planner and departmental calendar is prepared from the calendar published by the University.

On Moodle course material is prepared by each faculty member and uploaded it before commencement of semester. Moodle consists of eight sub folders as shown below:

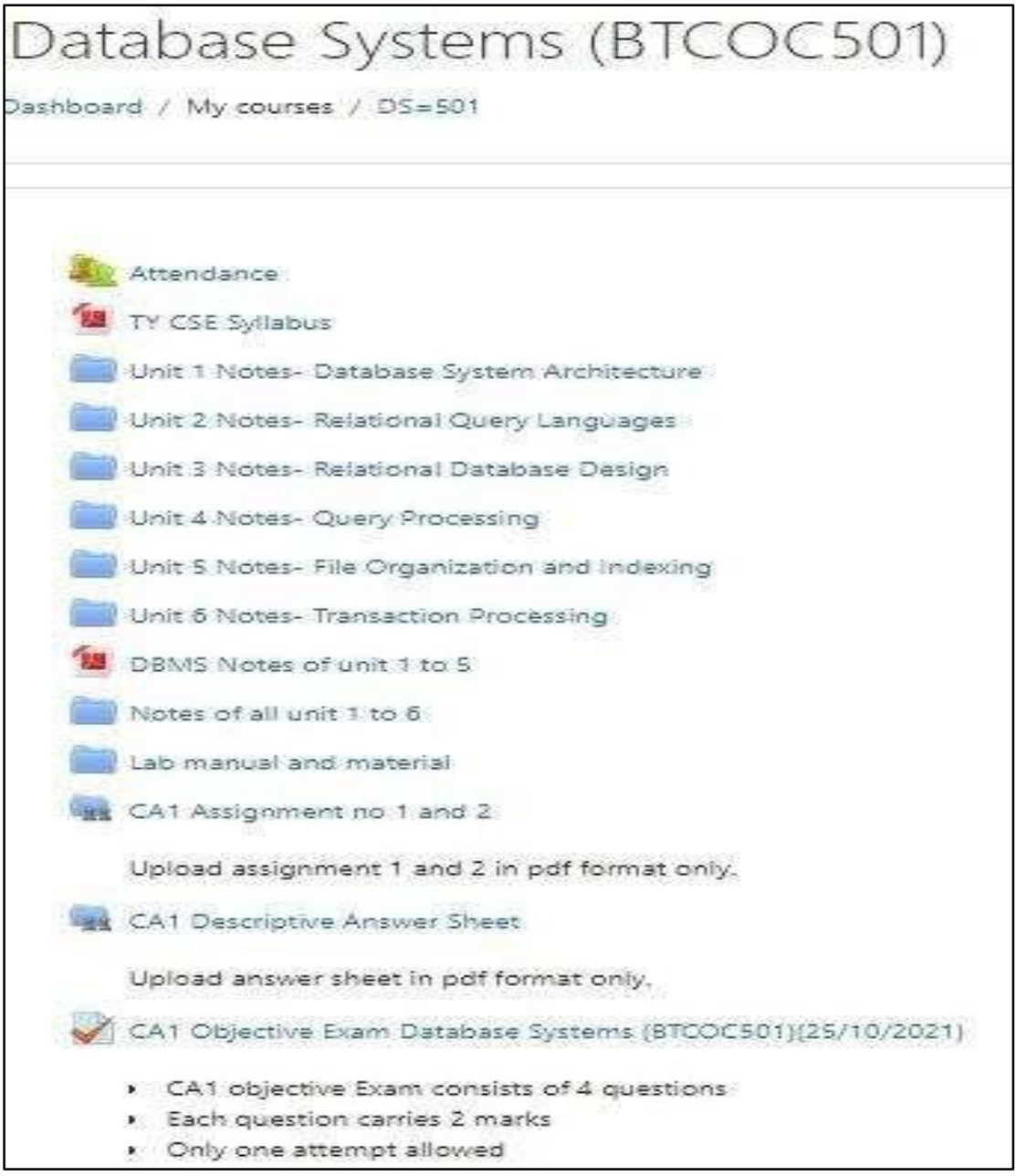


Fig. 7.2a Moodle sub folders

I. Academic Audit:

Academic audit is a one of the best practice to ascertain adequate and operative excellence assurance mechanisms in terms of procedures, their applicability, that ensures quality input and subsequently quality output. The main aim of conducting academic audit is to assess the academic performance of both individual faculty and the whole department. This practice develops accountability of the individual members with regards to their academic performance. By conducting academic audit, the strength and weakness of the department can be assessed. The quantification of the academic performance helps us to compare the academic performance of departments and members of faculty.

Academic Audit:

The institute has well defined process of academic audit to evaluate the performance of different departments of the Institute such as; teaching process, laboratory maintenance and various departmental activities. Following are the objectives of academic audit

1. To assess the academic performance of individual faculty in a department.
2. To assess the academic performance of the department as a whole.
3. To identify the strengths and limitations of the department.
4. To make the individual faculty and the department accountable
5. To assure quality working of laboratory.

In the implementation of this process, the Internal Quality Assurance Cell (IQAC) constitutes an Academic Audit Committee (AAC) to audit each department twice in a semester, i.e., one at just before the commencement of semester while the other is just before the end of that semester. The members of AAC are given below:

1. Chairperson of IQAC.
2. Coordinator of IQAC.
3. One Professor/Associate Professor from the respective department.
4. One Professor/Associate Professor from the other department

Academic Audit:

Departmental academic audit is conducted in every academic year-

Pre-semester audit is conducted at the department level by respective academic coordinator along withHOD before the commencement of new semester. Course files including session plan, notes, assignments, lab manual, question banks etc. are checked and academic monitoring checklist is prepared. Recommendations are given to faculty members as per the checklist.

At the beginning of semester readiness is verified through following points:

a. Theory Subjects:
   1. As per curriculum of D.B.A.T.U. University
   2. Time Table
   3. Academic Calendar
   4. Course File:
      i. Course & Faculty Details
      ii. Vision, Mission of Institute
      iii. Vision, Mission of Department
      iv. Program Educational Objectives
      v. Program Outcomes
      vi. Program Specific Outcomes
      vii. Course Syllabus as per D.B.A.T.U. University
      viii. Course Objectives & Outcomes
      ix. Course outcome & Program outcome mapping
      x. Teaching Plan
      xi. Laboratory Plan
      xii. Roll Call List of Students
      xiii. Course Material

b. Laboratory Subjects:
   i. Lab Manual
   ii. Lab Plan
   iii. List of Experiments as per University Curriculum
   iv. Software & Hardware requirements

End-Semester Audit:

End-semester audit is conducted at the end of semester by inviting external faculty member and following points are get audited.

i. Adherence to prepared teaching plan
ii. Student attendance record

iii. Unit test papers & their evaluation

iv. GFM Record

v. Practical Sessions record

vi. Viva record

Dr. Babasaheb Ambedkar Technological University
Academic Audit of Engineering Colleges
Format - II (To be filled individually by Faculty Member)

Centre/SubCentre: District:

1	Name of the College and Address	Arvind Gavali College of Engineering		
2	Name of the Faculty Member	Mrs Mandhare Rajani M.		
3	Name of the Subject taught during academic year 2019-20	Compiler Design (BTCOC601)		
4	Date of Joining in Degree College/Date of Joining in the present Institution	1/07/2019	Date of Retirement:	
S.No.	Activity	Status (Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation	Recommendation/Suggestions by Academic Advisors
	Curricular Aspects			
5	Annual Curricular plan	Plan attached		✓
6	Curriculum enrichment / Value addition	lect & Pract Conducted		attach records
7	Whether conducting Add on Courses & role in conduct of course	Yes (NPTEL course Mentor)		✓
8	Feedback from students	Yes attached		✓
	Teaching, Learning and Evaluation			
9	Teaching Diary & Teaching Plan	Plan Co-Po attached Yes		✓
10	Coverage of syllabus so far (%)	Yes		✓
11	Record of students attendance	Yes		✓
12	Use of ICT - PPT & Audio-video Aids	Yes		Attach record of PPT
13	Record of students assignments	Yes		✓
14	Record of field trips	Yes		✓
15	Record of student seminars conducted	Yes		✓
16	Record of academic competitions conducted if any (Quiz, Role play)	Yes		✓
17	Other Student centric learning Methods	Practical Based learning		Attach reward
18	Record of Extension Lectures given	No		✓
19	Record of invited lectures arranged	No		✓
20	Record of internal examinations and University Exams	Yes		✓
21	Pass percentage of University Exams / Semester in respective subject for the last three years.(paper wise)	Yes		✓
22	Record of remedial classes conducted for slow learners	NA		✓
	Research, Extension and consultancy			
23	Record of Research work (,Paper publication, Book publication, Articles)	Yes		✓
24	Record of Student Projects	Yes BE Project		✓

25	Record of seminars / workshops attended / organized /Papers presented	Yes 1) C++ workshop 2) Ardiano		✓
26	Record of extension work undertaken	No		✓
27	Record of MoUs, if any	Yes		✓
28	Record of Consultancy work	NO		✓
	Infrastructure and learning Resources			
29	Utilization of Departmental Library	Yes		✓
30	Availability of CDs,Videos	Yes		✓
31	Virtual labs / Open Educational Resources (OERs)	Yes		Attach Proof
	Development of any educational resource	No		✓
	Student support and progression			
32	Record of Activities conducted to contribute to the students' career opportunities	Yes		✓
33	Mentoring / Counselling to students for curricular and co-curricular activities	Yes sports Traditional		✓
34	Newspaper clippings or other materials as additional resource	Yes		✓
	Any Student team project for Technology Development	–		
	Governance and Leadership			
35	Record of additional administrative responsibilities performed	Yes Exam Coordinator		Attach Orders
36	Record of innovative practices			
37	Any outstanding contribution	1) NPTEL Certificate 2) Coursera Certificate		
38	Whether above(related activities)entered in into Departmental Activities Register			
39	Maintenance of Departmental Activities Register			
40	Check Departmental Documentation (should be available with I/c of dept.) 1. Dept. Time Table 2. Faculty-wise Annual Curricular Plans 3. Facultywise wise Teaching Diary & Plans 4. Departmental Activity Register alone with documentary Evidences			
	Signature of the Faculty member	Dr. B.M. Nayak		**Signature of the Principal** Dr. Vilas Pharande Principal Arvind Gavali College Of Engineering
	Note: the Format is to be filled by all the faculty and certified by the Principal and submitted to the Academic Audit Team.			

Figure 7.2.b Sample Audited Course File Record

69

Academic Audit Summary Sheet 2021-22

Institution/University Department: **Arvind Gavali College of Engineering, Satara**

Program Title: **Engineering**

Degree Level: Undergraduate Academic Audit Status: _____ First Academic Audit ____ Second Academic Audit

Evaluation Results

		Met/not met	% achieved
1	**LEARNING OBJECTIVES AND RESOURCES**		
1.1	The Faculty member has prepared Course Files as per the learning objectives of the program	Met	74
1.2	The Faculty member has shared his course file with the students of the class through Intranet/ Social media or any other means	Met	70
1.3	The faculty member documented specific benchmarks of his course to account for learning objectives	Met	72
2.	**CURRICULUM AND CO-CURRICULUM**		
2.1	The faculty member collaborated with other faculty members for effective design, sequence of courses and delivery of course for improvements and documented these efforts appropriately	Met	69
2.2	The faculty member documented a plan for analyzing the course content in terms of achieving program objectives.	Met	67
2.3	The faculty member documented a plan for review of curriculum and co-curriculum comparing those with the best practices elsewhere or in best institutes	Met	64
3	**TEACHING AND LEARNING PROCESSES**		
3.1	The faculty member analysed his/her own methods for improving teaching and learning throughout the program and practiced them.	Met	76
3.2	The faculty member developed and promoted effective instructional methods, other than lecturing, so that student achieve the learning objectives.	Met	70
3.3	The faculty member developed materials for achieving student mastery of learning objectives.	Met	68
4.0	**STUDENT LEARNING ASSESSMENT**		
4.1	The Faculty member has announced the method of continuous assessment at the beginning of the course and followed it throughout.	Met	76
4.2	The faculty member developed techniques, other than written test, for the student learning assessments to improve the program.	Met	64
4.3	The faculty member has documented assessments of student learning	Met	76
4.4	The faculty member has developed measurable indicators of student learning success	Met	74
4.5	The faculty member has developed and documented a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met	77
4.6	The Student has put in his/her own efforts in the learning process from resources outside the Institute.	Met	62
4.7	The students are challenged enough to use their knowledge creatively	Met	69

5.0	QUALITY ASSURANCE		
5.1	There is an existing process in the Institute to understand the parameters of quality of teaching and learning processes	Met	66
5.2	There is an initiative to understand the parameters of quality of teaching and learning processes, if not existing.	Met	70
5.3	There is commitment to making continuous quality improvements in the program a top priority	Met	72
5.4	The performance of students in Internal Assessment and University Examinations is comparable.	Met	78
5.5	There is sufficient feedback obtained from stakeholders in development of academic processes in the College.	Met	74
5.6	There is sufficient evidence of attempts to understand the industries/ Society's need in delivery of appropriate course content to the students	Met	64
6	OVERALL ASSESSMENT		
6.1	The Academic Audit process was Faculty driven.	Met	80
6.2	The Academic Audit process (self-study and visit) included descriptions of the program's quality processes including all five focal areas.	Met	80
6.3	The Audit resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Met	80
6.4	There is openness and thoroughness of the faculty members in completing the academic audit of this program.	Met	75
6.5	The Academic Audit process included involvement of and inputs from stakeholder groups identified by the program's faculty members	Met	85
7	FOLLOW-UP OF PREVIOUS AUDIT		
7.1	An action plan was developed as a result of the previous Academic Audit.	Met	Yes
7.2	There is documented evidence that recommendations made by the previous Academic Audit Team have been considered and, when feasible and appropriate, implemented and tracked.	Met	Yes
7.3	There is documented evidence that the program has been implemented and tracked the progress of and use of results from improvement initiatives cited by the faculty its self-study.	Met	Yes
8	SUPPORT		
8.1	The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources.	Met	74
8.2	The program's operating budget is consistent with the needs of the program.	Met	76
8.3	The program has a history of enrolment rates sufficient to sustain high quality and cost-effectiveness.	Met	78
8.4	The program has a history of graduation rate sufficient to sustain the quality of the program.	Met	72
8.5	The program has a history of placement rate sufficient to sustain high quality of program outcome.	Met	67
8.6	The Program has a history of generating support from industries and alumni to sustain itself.	Met	69

Signatures of Academic Advisors

1. Dr. Uday A. Dabade,
   Professor,
   Walchand College of Engineering, Sangli----------
2. Dr. Kumthekar Madhav Bhalchandra,
   Retired Professor,
   Karad Government College, Karad----------

Figure 7.1 Academic Audit Summary Sheet 2021-22.

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
NAAC Accredited
Approved by AICTE, New Delhi, Recognised by Govt. Of Maha.,DTE Mumbai & Affiliated to Dr.Babasaheb Ambedkar Technological University (BATU), Lonere.
Website:- www.agce.edu.in

* Address : At.Panmalewadi, Post.-Varye, Tal.& Dist.-Satara.-415 015 (Maharashtra)
* Phone : 02162 - 251122 , 200100
* e-mail : agcengg@satara@gmail.com
* Institute Code : Engg. DTE EN-6545
* Poly.Code : DTE DN-6545
* Poly. MSBTE-1817

Ref No.: AGCE / Nov-2022 / No - 231 Date : 10 NOV 2022

Letter of Invitation

To,
Dr. Uday A. Dabade,
Professor,
Walchand College of Engineering,
Sangli

Respected Sir,

On behalf of management of Samarth Educational Trust Arvind Gavali College of Engineering, Satara, it gives me immense pleasure to invite you as an expert for DBATU Academic Audit of our Institute on 18th November 2022, Friday 11:00 am

Samarth Educational Trust has been actively associated with educational activities since its inception in 1988 and is developing fast into a prime educational center in the western region of Maharashtra. It has presently the following constituent institutes under its umbrella:

- Arvind Gavali College of Engineering & Polytechnic (AGCE)
- Sawkar Homeopathic Medical College
- Arvind Gavali College of Pharmacy (B. Pharm)
- Sawkar Pharmacy College (D. Pharm)
- Sawkar Science College

AGCE is one of the most rapidly evolving engineering institute which is affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere. Institute is having lush green, eco-friendly campus conducive to overall development of the students leading to their enhancement in employability. The Institute is offering B.Tech. in Mechanical, Civil, Electronics and Telecommunication, Electrical, Computer Science. Also M.Tech.in Mechanical (Heat Power Engineering). NATIONAL EDUCATION EXCELLENCE AWARDS & CONFERENCE 2021 has presented our college as **MOST PROMISING & TRUSTED ENGINEERING COLLEGE OF THE YEAR 2021 MAHARASHTRA.**

Academic audit helps to assess the academic performance of the Institute and also to get suggestions for overall progress of the Institute.

It is our honor and pleasure to invite you as an expert on 18th November 2022, Friday Kindly grace the occasion with your presence.

Thanking you,

Principal

Dr. Vilas Pharande
Principal
Arvind Gavali College Of Engineering
Panmalewadi, Satara

Figure 7.2.a Sample Invitation Letter for External Academic audit

Figure 7.2d Academic Audit Committee interaction and document verification is being carried out.

Figure 7.2e Academic Audit Committee visit to the laboratory and the experiments are demonstrated by students to the committee

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Placement details for academic year 2021-22 to 2019-20 as shown in Table 3.a

Items	CAY m1 (2021-22)	CAY m2 (2020-21)	CAY m3 (2019-20)
No. of final year students (N)	62	66	32
No. of students placed (x)	52	64	26
% Placement	83.87	96.96	81.25

Table 7.3a Data for Placements

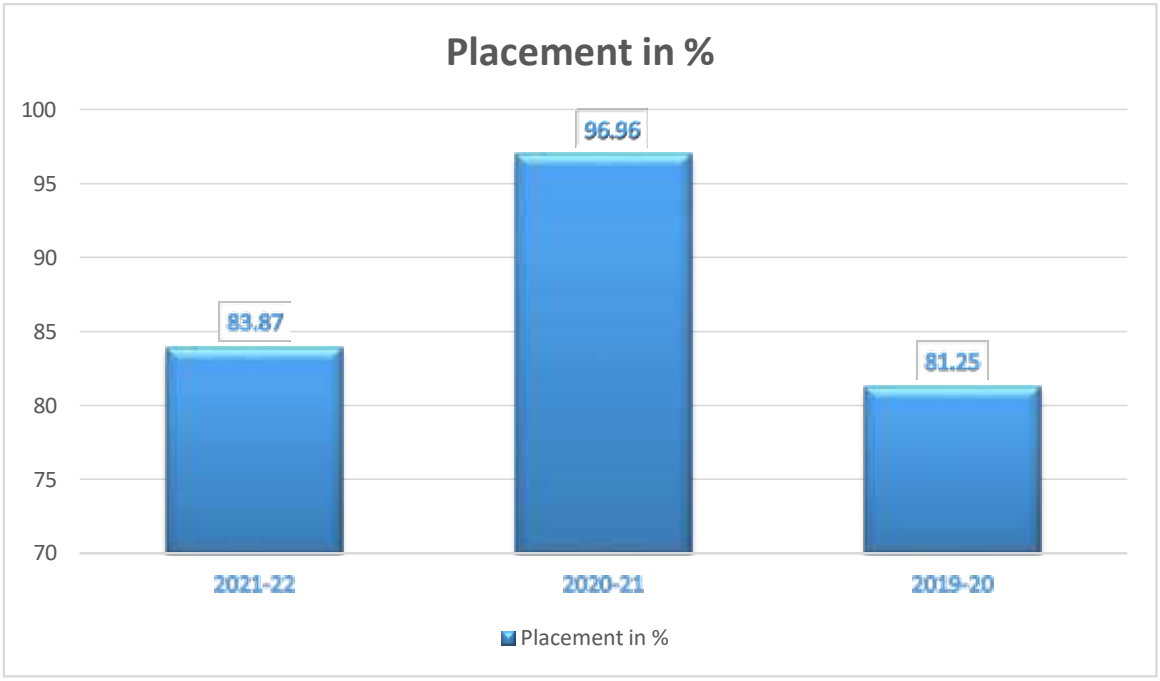


Fig 7.3a Placement data analysis

- Institute has a Training and Placement cell, responsible for grooming the students to be industry ready and provide opportunities for placement.
- T&P cell organizes various programs for overall personality development of the students. Also Training placement coordinator helps students search Internship opportunities in Software industry.
- Experienced industry professionals in the respective domain of job profiles are invited for guest lectures.
- Through these activities, the students are made aware of the opportunities in various fields along with the required job profile. At the same time, they get a chance to interact with these industry professionals to take advantage of their experience in respective field of expertise.
- Career guidance books such as GRE, GATE, TOEFL are available in the library.
- In addition, with T&P Cell, Institute has initiated Campus To Corporate Activity to help students improve communication skills, interpersonal skills, societal awareness and inculcate ethics.
- Institute has initiated aptitude training sessions in order to train students for placement aptitude tests.
- The aim of entrepreneurship development cell is to improve and generate a culture of innovation amongst the students and budding entrepreneurs and start their own business. Under EDC Institute has organized sessions to motivate and guide students to work on ideas in commercial aspect.

Table 7.3.1: List of Companies in which students placed in 2021-22

Sr. No	Name of Company	Number of students Placed
1	Infosys, Pune.	3
2	Web softera It Services & Marketing Private Limited, Pune	1
3	Webotix technology,satara.	1
4	Dutypar Technologies, Pune	2
5	FA Software Solution Pvt Ltd Pune	1
6	Rocklike Techventures, Satara	1
7	Source Code Technologies, Pune	3
8	NCS India, Pune	1
9	VST Infotech, Pune	1
10	Aditya IT Solutions, Kolhapur	1
11	Capgemini Technology Services India Ltd	1
12	3starIT solutions, satara.	1
13	Microdyanamic Software Pvt. Ltd	3
14	GT Financial Services, Pune	1
15	ACME Infovision Pvt Ltd, Satara	1
16	AB Software Solutions Pvt Ltd Satara	1
17	Nebula Technologies	3
18	Stylopedia Technology Pvt Ltd, Satara	1
19	markets and markets, pune.	1
20	Wipro Ltd, pune	1
21	Hexaware Technologies, Pune	1
22	Fibit Infotech Pvt. Ltd.,pune.	2

23	Hap Hup LLM, Pune	1
24	Sphinx solution, Pune	1
25	Converge Technology, Pune	1
26	Quantiphi, Mumbai	1
27	Data Entrega, Pune	1
28	Axolotis innovative technology, Pune.	1
29	WNS Global Services, Pune	1
30	CAS EXIM And Business Services, satara.	1
31	Infosys, Pune/ Talentserv Consulting Pvt Ltd, Pune	1
32	AppZia technologies, Pune	1
33	2020analytics insights, pune.	1
34	Bpointer Technologies, Pune	1
35	AB Software Solutions, Satara	1
36	Sigma Infraplan Engg. Pvt Ltd, Kolhapur	1
37	DWplace Solution, Pune	1
39	SolveAll Solutions, Pune	1
40	Thyssenkrup Materials IT Services India Pvt Ltd, Thane	1
41	Whileone Techsoft, Pune	1

Table 7.3.2: List of Companies in which students placed in 2020-21

Sr.No	Name of Company	Number of students Placed
1	Source code Technology Pune(In company premises)	4
2	Application Software Technologies, Pune	1
3	Atos Group of Company Pune.	2

4	Biz 4 Solutions Private Limited, Pune.	1
5	Bottomline Technologies, Banglore	1
6	Bynaric Systems Pvt Ltd Pune	1
7	Capgemini Mumbai	1
8	CDAC, Pune	1
9	Cognizant,Pune	7
10	Deepminds Infotech Pvt Ltd	1
11	DXC Technology India Pvt Ltd	1
12	eClerx Service Ltd.	2
13	Exint Solutions, Pune	1
14	Fable FinTech Pvt Ltd, Mumbai	1
15	Fibit Infotech Pvt Ltd, Pune	1
16	Fujitsu Consulting India Pvt Ltd, Pune	4
17	HCL Technologies Ltd	1
18	ICReon, Pune	1
19	iMuons Web Solutions Pvt. Ltd Pune	1
20	Infostretch Corporation Pvt Ltd, Pune	2
21	Infosysis Limited Pune	2
22	Intellect Pune	1
23	Inuxu Digital Media Technologies Pvt ltd Pune	1
24	Kan Infocom	1
25	Ksolves India Ltd	1
26	Mphasis Ltd	1
27	Nihilent Limited Pune	1
28	Publicis Sapient	1
29	SysTech Solutions Pune	1
30	Tata Communication Transformation Services Ltd, Pune	2

31	Tata Consultancy Service Limited	2
32	Tech Mahindra	2
33	Techspeed	1
34	Unisoft, Pune	1
35	Virtusa, Pune	1
36	Wipro	2
37	Zensar Technologies ltd	1

Table 7.3.3: List of Companies in which students placed in 2019-20

Sr.No	Name of Company	Number of students Placed
1	AB Software Solution Satara	1
2	Crescente Pune	5
3	3 Star IT Solution	2
4	APSTER TECHNOLOGIES,Tasgaon	1
5	Bridgetree, Pune	1
6	Cas exim and Business services,Satara	3
7	C-DAC PG Diploma in Advanced Computing	2
8	DXC Technologies, Pune	1
9	eInnovation, Pune	1
10	Inventive Infotech, Satara	2
11	iSoft Software Solution ,Satara	3
12	MD India, Pune	1
13	Mechatronic Systems Pvt Ltd, Pune	1
14	REFLEXIS Systems India Private Ltd pune	1
15	Support Technology	1
16	USAS Solution, Satara	2

Table 7.3.5: List of students opted for Higher Studies:

Academic Year	Sr No	Name of Student	PG Course
2019-20	1	KUDALE AKSHADA VINAYAK	C-DAC PG diploma in advanced computing
	2	NALAWADE ASHISH ASHOK	C-DAC PG diploma in advanced computing

7.4 Improvement in the quality of students admitted to the program

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.

ITEM		CAY (2022-23)	CAY (2021-22)	CAY (2020-21)
National level entrance examination (JEE)	No. of students admitted	17	8	5
	Opening score/rank	69.88/18800	65.19	74.15
	Closing score/rank	31.70/346177	19.83	37.24
State/University level examination /others (MH-CET)	No. of students admitted	109	61	49
	Opening score/rank	88.09/22089	78.51/ 10531	81.30/ 26743
	Closing score/rank	12.67/114875	12.22/ 45370	21.49/44178
Name of entrance examination for lateral entry (Direct Second Year: MSBTE Diploma Final Semester)	No. of students admitted	08	22	21
	Opening score/rank	85.43/7497	89.20/10531	87.09/10558
	Closing score/rank	78.91/20494	77.31/45370	54.13/61094
Average CBSE/Any other board result of admitted students (Physics, chemistry, Maths)		0	0	0

CRITERION 08	**First Year Academics**	**50**

8. FIRST YEAR ACADEMICS (50)

Please provide First year faculty information considering load for the particular program

Name of the faculty member	PANNo.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load(%)			Currently Associated (Yes /No)	Date Of leaving (In case Currently Associated is 'No')
							CAY (2022-23)	CAY (2021-22)	CAY (2020-21)		
Ashwini Deepak Kasture	BTSPK5524K	M.Sc	14-06-2017	Mathematics	Assistant Professor	15-06-2012	100	100	**100**	Yes	
Pooja Ramchandra Bhosale	ERAPB9485B	M.Sc,B.Ed	08-07-2019	Mathematics	Assistant Professor	01-07-2019	100	100	100	Yes	
Vidya Atul Salunkhe	CJJPS9748B	M.Sc	19-05-1999	Mathematics	Assistant Professor	01-08-2019	100	100	100	Yes	
Ms.Swapnali Shinde	PGTPS0243D	M.Sc	30-08-2021	Mathematics	Assistant Professor	01-07-2022	100	0	0	Yes	
Ms.Sonali S.More	EVMP4519P	M.Sc	24/3/2018	Mathematics	Assiatant Prof.	2/7/2022	100	0	0	No	31/06/2023
Madan Prabhakar Jagdale	BEGPJ8774P	M.Sc	08-07-2019	Mathematics	Assistant Professor	01-07-2019	0	100	100	No	31/05/2022
Ruksar Rajmohamad Sayyad	IWNPS7798C	M.Sc.	04-07-2017	Mathematics	Assistant Professor	01-08-2020	0	0	100	Yes	
Pranita Dadaso Pol	DHZPP7754R	M.Sc.	01-06-2018	Chemistry	Assistant Professor	15-07-2019	0	100	100	Yes	
Komal Rajendra Nikam	BIZPN4929H	M.Sc.	13-07-2015	Chemistry	Assist	01-06-	0	100	100	Yes	

					ant Profes sor	2019					
Namita Pratik Mahajan	ETRPB8924A	M.Sc	06-06-2019	Chemistry	Assist ant Profes sor	01-11-2020	0	0	**0**	**Yes**	
Priya Yashwant Kuthe	HPUPK3410K	B.E	21-08-2017	Chemical	Assist ant Profes sor	12-10-2021	100	100	0	Yes	
Mrs.Rohini Bhosale	ENPPB2533D	M.Sc	30-07-2017	Chemistry	Assist ant Profes sor	21-07-2022	100	0	0	yes	
Tejaswini Dnyaneshwar Jadhav	BUIPJ1243D	M.Sc	24-10-2020	Physics	Assist ant Profes sor	17-03-2021	0	100	0	No	31/06/2022
Kanchan Sanjay Mahamuni	EHFPM5540B	M.Sc	24-10-2020	Physics	Assist ant Profes sor	17-03-2021	100	100	0	No	31/06/2023
AshwiniAnkush Babar	AQSPB8546L	M.Sc	11-06-2010	Physics	Assist ant Profes sor	01-06-2019	0	0	100	No	31/10/2021
Dr. Nitin Ramchandra Jadhav	AGSPJ2278D	M.A	07-03-2020	ENGLISH	Assist ant Profes sor	02-07-2020	100	100	100	Yes	
Nikita Sanjay Bhilare	FBDPB7735Q	M.A SET	09-07-2019	English	Assist ant Profes sor	16-03-2021	100	100	0	Yes	
Thoravi Rahul Yadav	BLVPM6822M	MA	10-07-2008	ENGLISH	Assist ant Profes sor	01-06-2019	0	0	100	No	30-04-2021
Aanand Sudhir Shivde	CCLPS6118J	M.E.	30-09-2014	Mechanical	Assist ant Profes sor	06-01-2019	0	0	100	No	31-07-2021

Kamlesh Kumawat	ENEPK1812H	M.E.	20-10-2016	Mechanical	Assistant Prof.	03/07/2017	0	0	100	No	31/3/2021
Mr.Amol Ghorpade	BTDPG5946C	M.E.	10/10/2017	Mechanical	Assistant Prof	1/10/21	100	100	0	No	2/5/2023
Pratik Manohar Tambe	AXPPT2681Q	M.E	31-07-2017	Mechanical	Assistant Professor	01-07-2019	100	100	0	No	31-12-2022
Pranav Avinash Pathak	BFAPP7243G	M.E.	20-10-2016	CSE	Assistant Professor	22-08-2011	22	35	38	Yes	
Gujar Vijay Bhanudas	AMEPG4168K	M.E.	22/02/2011	CSE	Assistant Professor	1/11/2020	15	0	0	Yes	
Suraj Shivaji Shinde	EKQPS2010J M.E/M.Tech	M.E.	12-12-2018	Civil	Assistant Professor	02-12-2021	55	50	0	No	31/05/2023
Abhay V.gujar	ABPPG5152M	M.E.	26-06-1994	Civil	Assistant Prof.	25/06/2010	0	0	75	Yes	
Sapkal Rajendra	BNHPS3023E	M.E.	25/06/2013	Civil	Assistant Professor	1/06/2016	50	0	0	Yes	
Diksha Sanjay Jadhav	BGXPJ6890B	M.Tech	01-06-2019	Civil	Assistant Professor	22-07-2019	0	0	19	Yes	
Kolekar A.B.	GDSPK1558L	M.Tech	18/01/2019	Civil	Assistant Professor	1/06/2019	0	0	86	No	1/05/2021
Dr. Prashant Ramesh Bamane	BHXPB5112K	PhD,M.E.	24-12-2014	Civil	Associate Professor	01-09-2021	81	72	0	Yes	
Vishal Sharad Hingmire	AEBPH8372K	M.E.	23-11-2013	E & TC	Assistant Profes	12-02-2011	17	13	0	Yes	

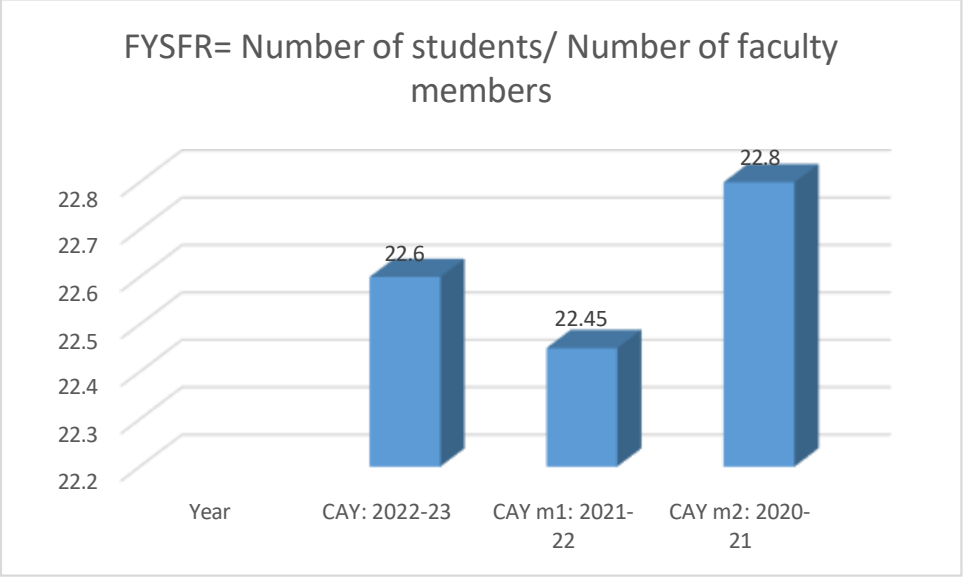
					sor						
Dr.Shinde Deepali	CBQPS4461N	PhD	24/09/2015	E & TC	Associate Professor	15/02/2023	20	0	0	Yes	
Rahul Prakash Sakhare	FCOPS8416K	MTech	05-06-2017	E & TC	Assistant Professor	07-01-2019	0	0	29	Yes	

8.1. First Year Student-Faculty Ratio (FYSFR) (5)

Assessment = (5 ×20)/Average FYSFR (Limited to Max. 5)

Year	Number of students (Approved intake strength)	Number of faculty members(considering fractional load)	FYSFR= Number of students/ Number of faculty members
CAY: 2022-23	330	**14.60**	**22.60**
CAY m1: 2021-22	330	**14.70**	**22.45**
CAY m2: 2020-21	330	**14.47**	**22.80**
Average Assessment			**22.62**
Assessment = (05 x 20)/Average FYSTR			**4.42**

Graphical Presentation of First Year Student Faculty Ratio



8.2. Qualification of Faculty Teaching First Year Common Courses (5)

Assessment of qualification = (5*x* +3*y*)/*RF,*

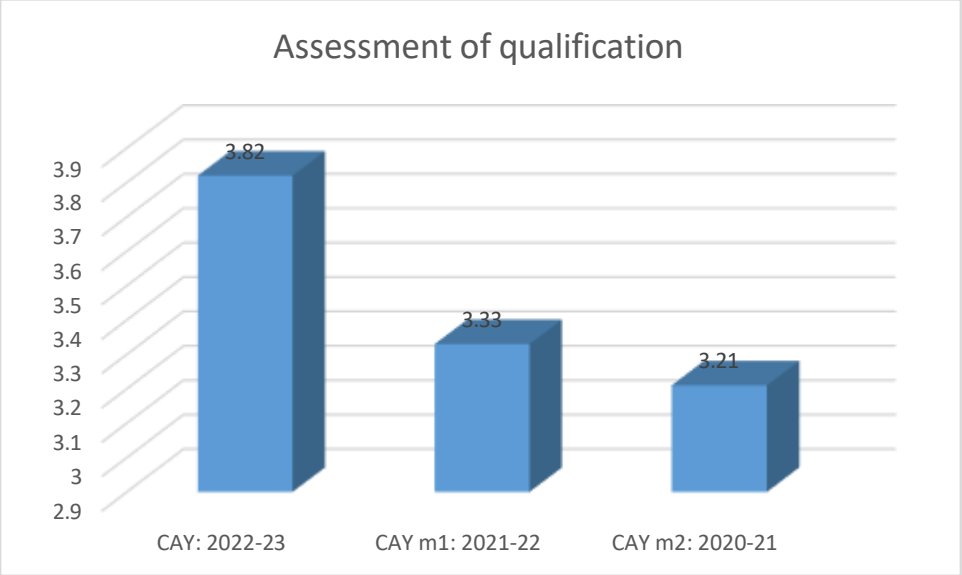
x= Number of Regular Faculty with Ph.D,

y = Number of Regular Faculty with Post-graduate qualification

RF= Number of faculty members required as per SFR of 20:1

Year	X	Y	RF	Assessment of qualification
CAY: 2022-23	**3**	**16**	**16.5**	**3.82**
CAY m1: 2021-22	**2**	**15**	**16.5**	**3.33**
CAY m2: 2020-21	**1**	**16**	**16.5**	**3.21**
Average Assessment of Qualification				**3.45**

Graphical Presentation of Assessment of Qualification:



8.3. First Year Academic Performance (10)

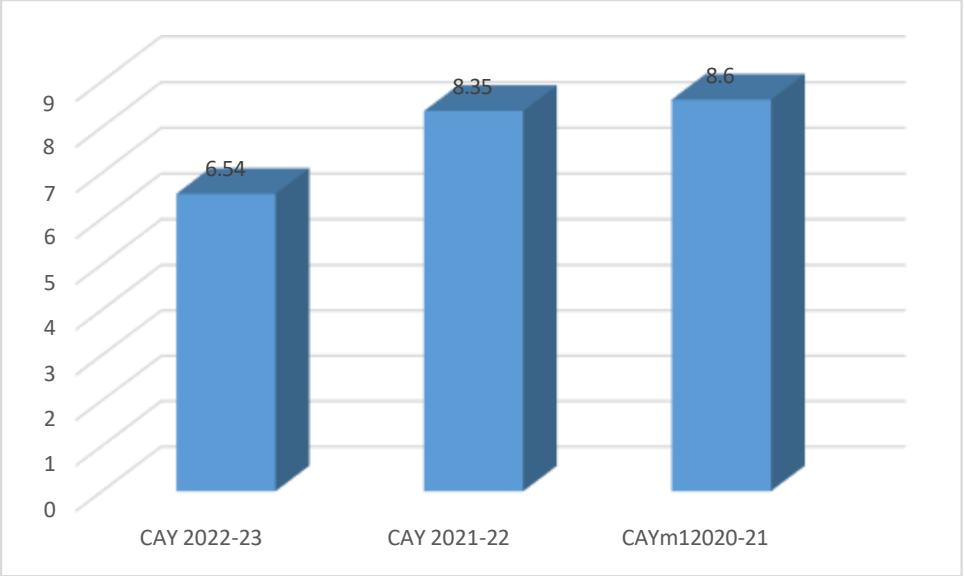
Academic Performance (AP) = (Mean of the percentage of marks in First Year of all successful students/10) x (number of successful students/number of students appeared in the examination)

Year	Mean of the % marks of successful student X	X/10	Total Successful students y	Total Appeared Students Z	AP	AVE. API
CAY 2022-23	CSE	6.90	126	133	6.54	6.69
	E &TC	6.97	23	34	4.72	
	Mech	7.33	9	15	4.40	
	Civ	0	1	03	0	
	Elec	6.80	22	30	4.99	
CAY m1: 2021-22	CSE	8.35	69	69	8.35	
	E &TC	8.11	45	45	8.11	
	Mech	7.943	10	10	7.9	
	Civ	7.76	9	9	7.76	
	Elec	8.05	8	8	8.05	
CAY m2: 2020-21	CSE	8.6	52	52	8.6	
	E &TC	8.4	29	29	8.4	
	Mech	7.4	21	21	7.04	
	Civ	7.6	13	13	7.6	
	Elec	8.0	22	22	8.0	

Year (CSE)	Mean of the % marks of successful student X	X/10	Total Successful students y	Total Appeared Students Z	AP	AVE. API

CAY 2022-23	**69.7**	**6.90**	**126**	**133**	**6.54**	**7.83**
CAY 2021-22	**83.5**	**8.35**	**69**	**69**	**8.35**	
CAYm12020-21	**86**	**8.6**	**52**	**52**	**8.6**	

Graphical Presentation of Academic Performance



8.4. Attainment of Course Outcomes of first year courses (10)

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5) Data collection methods:

- Two Internal CA Tests of 10 marks and One MSE of 20 marks are conducted per semester and Question papers are set according to defined course outcomes.
- Final examination of 60 marks is conducted by the University.
- Evaluation of course outcome is based on Internal Tests and university examination with weighted average 40:60.
- Lab assessment is based on practical performance of students and two CA practical exam of 15 marks.

Sr.No.	Direct Assessment tools	Outcome
1	CA Internal Test -2 MSE -1	Attainment of course outcome and programme outcome
2	Assignments, Tutorials, quiz	Designed for course outcome
3	Laboratory work, Orals ,Lab CA exam	Practical knowledge

8.4.2. Record the attainment of Course Outcomes of all first year courses (5) for Mechanical Engineering students.

Attainment levels are set based on performance in Internal Semester Evaluation and University examinations.

Sr. No.	Assessment Tool	Attainment Level
1	University Examination	**Level 3->71 - 100% student score** **Level 2- 51 - 70% student score** **Level 1- 40 - 50% student score**
2	CA Test	**Level 3->71 - 100% student score** **Level 2- 51 - 70% student score** **Level 1- 40 - 50% student scoredent score**

3	MSE	**Level 3->71 - 100% student score** **Level 2- 51 - 70% student score** **Level 1- 40 - 50% student score**
4	LAB	**Level 3->81 - 100% student score** **Level 2- 61 - 80% student score** **Level 1- 40 - 60% student score**

8.5. Attainment of Program Outcomes from first year courses (20)

Following table shows the attainment of COs of first year courses yearwise

1. Indicate results of evaluation of each relevant PO and/or PSO, if applicable Indicate results of evaluation of each relevant PO and/or PSO, if applicable(15) CO-PO set level indicating Matrix

Academic year 2022-23

Course Code	Course	CO1	CO2	CO3	CO4

BTBS101	Engg. Mathematics-I	**1.00**	**1.05**	**1.03**	**1.00**
BTBS102	Engg.Physics	**1.10**	**1.20**	**1.13**	**1.20**
BTES203	Engg.Graphics	**2.20**	**2.35**	**2.35**	**2.40**
BTHM104	Communication Skill	**2.20**	**2.25**	**2.20**	**2.20**
BTES105	Energy and Environment Engg.	**2.30**	**2.35**	**2.29**	**2.30**
BTBS102L	Engineering Physics lab	**2.40**	**2.40**	**2.40**	**2.40**
BTES106	Basic Electrical and Electronics Engg. (Audit sub)	**3.00**	**2.90**	**2.90**	**3.00**
BTES108L	Engineering Mechanics Lab	**2.00**	**2.00**	**2.60**	**2.60**
BTES108L	Engineering Graphics Lab	**2.40**	**3.00**	**2.40**	**2.40**
BTHM109L	Communication Skills Lab	**2.00**	**2.00**	**2.00**	**2.00**
BTBS201	Engg. Mathematics-II	**1.70**	**1.75**	**1.68**	**1.60**
BTBS202	Engg.Chemistry	**1.80**	**1.55**	**1.60**	**1.70**
BTES203	Engg.Mechanics	**2.40**	**2.40**	**2.15**	**2.00**
BTES204	Computer Progrmming in C	**1.50**	**1.60**	**1.70**	**1.30**
BTES205	Workshop Practice	**2.40**	**2.40**	**2.40**	**2.40**
BTES206	Basic Civil and Mechanical Engineering(audit sub)	**2.40**	**2.40**	**2.30**	**2.40**
BTBS107L	Engineering Chemistry Lab	**3.00**	**2.40**	**3.00**	**2.40**
BTES210S	Seminar	**3.00**	**2.40**	**2.40**	**2.40**

Core Science and Engineering CO-PO Attainment 2022-23 (Computer Science Engineering)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
M1	0.67	1.01	0.91	0.87		0.43					0.91	0.68	0.91	0.44
CHEM	1.41	0.30				0.15	0.63		0.30					
MECHANICS	1.28	1.46	1.89	1.17	0.74		1.27					1.63	0.92	0.94

Comp Prog In C	1.16	1.34	1.42	0.83	1.46				1.06	0.87	1.06	0.87	1.33	1.32
BEEE	1.30					0.65	0.87							
Engg Chem Lab	2.05	0.82				1.56	0.90		1.35					
Engg Mech Lab	1.33	1.66	2.13				1.28					1.73	0.94	1.00
Workshop	1.23				1.90				0.82	0.41			0.20	
M2	0.94	1.42	1.28	1.20		0.60					1.28	0.96	1.29	0.62
Phy	0.95	0.95	0.95	1.42		1.42	1.42					0.95	0.47	
Graphics	2.40	2.40	1.40	1.61	2.38		1.80		1.62	1.62	1.63	0.99	2.40	0.80
Comm skills					0.76			1.15	1.92	2.07		1.49	0.75	0.76
EEE	1.86		1.98		1.58		2.39		1.60	1.59		2.00	0.80	0.79
BCME	0.59	1.17	0.77	0.77	0.52					1.05	0.78	0.79	1.18	0.78
Phy lab	1.64	1.64	1.64	2.46		2.46	2.46					1.64	0.82	
Gaphics lab	0.66	1.81	0.90			0.25	0.00		0.82	0.90		0.82	1.27	0.86
Comm skills lab					0.69			1.03	1.71	1.88		1.36	0.68	0.69
Seminar									2.35	2.35		1.52	0.82	0.82

PO levels set and achieved Attainment (2022-23):

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Target	2.00	2.20	2.14	2.44	1.44	1.43	2.25	1.40	2.29	2.26	2.00	2.00	0.91	0.75
AY 22-23	1.30	1.33	1.39	1.29	1.25	0.94	1.30	1.09	1.35	1.42	1.13	1.24	0.99	0.82

8.5.2. Actions taken based on the results of evaluation of relevant POs (5)

Academic Year-2022-23

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			

PO 1	2.00	1.30	Target is not attained ● The students have a limited grasp of the core principles of engineering.
Action: 1. Greater emphasis will be placed on thoroughly comprehending the fundamentals of engineering.			

PO 2 : Problem Analysis

PO 2	**2.20**	**1.33**	Target is not attained ● The students are experiencing a deficiency in their literature review outcomes and in identifying engineering-related issues.
Action: 1The goal for the upcoming academic year is to exert efforts in order to attain the predefined target 2. There will be an increased emphasis on generating fresh ideas to address these issues.			

PO 3 : Design/development of Solutions

PO 3	**2.14**	**1.39**	Target is not attained ● In the realm of research and development, the students faced challenges in recognizing issues concerning public health and safety, as well as addressing cultural and societal needs.
Action: 1. The same target will be considered for the next academic year. 2. More focus will be given to practicals, experiments, projects to improve their skills and not merely learning.			

PO 4 : Conduct Investigations of Complex Problems

PO 4	**2.44**	**1.29**	Target is not attained ● Students are facing challenges when it comes to conducting investigations into complex problems.
Action: 1. The goal for the upcoming academic year is to exert efforts in order to attain the predefined target 2. As teaching and learning is at an advanced level, more emphasis is given on the use of latest technology.			

PO 5 : Modern Tool Usage

PO 5	**1.44**	**1.25**	Target is not attained ● There is a need for greater utilization of the National Program of Technical Enhance Learning (NPTEL) as a teaching resource, with a focus on integrating more contemporary tools and technologies
Action: 1. The objective for the forthcoming academic year is to dedicate efforts toward achieving the predetermined goal. 2.More thrust will be given for the use of various modern tools like ICT panels, Moodle, PPTs, FTPs, and Digital Library.			

PO 6 : The Engineer and Society

PO 6	**1.43**	**0.94**	Target is not attained ● The students faced challenges in adequately evaluating societal, health, safety, legal, and cultural concerns.
Action: 1. The aim for the upcoming academic year is to focus efforts on reaching the established goal. 2 A strong bond will be forged with society by addressing their needs by conducting activities like exhibitions, and group discussions on societal needs related to engineering and professionalism, will be organised.			

PO 7 : Environment and Sustainability

PO 7	**2.25**	**1.30**	Target is not attained - The students' concerns regarding environmental issues lack depth, and there is a need for improvement in their approach to sustainable development.
Action: 1. The goal for the upcoming academic year is to commit efforts towards achieving the established objective. 2.The various environmental issues such as global warming, pollution, and e-waste will be highlighted by conducting various awareness programmes.			

PO 8 : Ethics

PO 8	**1.40**	**1.09**	Target is not attained - Students need improvement in their awareness of the importance of ethics and professional principles.
Action: 1. The aim for the upcoming academic year is to devote efforts to accomplish the set objective. **2.** The importance of ethical behaviour in engineering students, will be emphasized and expert talks on ethics in engineering domain will be organized.			

PO 9 : Individual and Team Work

PO 9	**2.29**	**1.35**	Target is not attained - It has been observed that students need to enhance their ability to work both individually and as part of a team when working on projects
Action: 1. The goal for the approaching academic year is to allocate efforts towards achieving the predetermined aim. 2. The students will be motivated to participate in co curricular and extra curricular activities.			

PO 10 : Communication

PO 10	**2.26**	**1.42**	Target is not attained - It has been noted that students require a stronger focus on improving their proficiency in linguistic, public speaking, communication, and computing skills
Action: 1 We'll aim to achieve the same target in the upcoming academic year 2. Soft skills programmes and expert lecture will be arranged to highlight its importance and necessity in daily life and also the industry in particular.			

PO 11 : Project Management and Finance

PO 11	**2.00**	**1.13**	Target is not attained - The students' knowledge of project management is inadequate.
Action: 1. The same target will be considered for the next academic year. 2.Mini projects from the first year itself will help the students' to improve their understanding of the topic, cultivating team spirit, problem-solving ability, and managerial skills will be included.			

PO 12 : Life-long Learning

PO 12	**2.00**	**1.24**	Target is not attained - Greater emphasis will be placed on instilling the concept of lifelong learning among the students.
Action: 1. We will put in efforts to attain the identical target in the forthcoming academic year. 2. The students will be motivated to participate in co-curricular and extracurricular activities. 3. Expert lectures pertaining to various fields and career development programmes will be organized.			

CRITERION 09	STUDENT SUPPORT SYSTEMS	50

9.1 Mentoring system to help at individual level (05)

The role of the faculty as a Guardian Faculty mentor is one of nurturing support for a student during the transition period in academic, professional as well as personal augmentation. In all departments of the Institution, mentoring is a continuous process where Guardian faculty mentors serve as a resource who will respond to many questions, that the student might pose; support students in choosing course work that meets their needs and interests; encourage students to actively participate in seminars and laboratory work that are realistic in scope; and counsel the students on any other academic, professional, personal growth, etc., for necessary advice/guidance/help.

Guardian Faculty Mentor:

- For monitoring the overall development of students and encourage the students to participate in all grooming activities conducted by various cells, one faculty is assigned as Guardian Faculty Mentor to every batch consisting the 15 students.
- The guardian faculty mentor conducts periodical meeting with students in order to evaluate their academic performance and proper orientation towards the program, as well as guide them to rectify any shortcomings and to solve any problems.
- Every GFM is in contact with parents of respective students and communicates them about student performance, attendance and any other issues.
- GFM discuss the various policies conducted by the Institute with students and helps them take maximum benefits from them.
- Students are motivated and guided to participate in co-curricular and extra-curricular activities.

GFM helps students for solving their personal issues such as psychological issues, confidence level, negative emotional management, leadership quality, time management, teamwork etc.

Following issues are discussed with students:

i. Attendance
ii. Personal issues
iii. Behavior
iv. Understanding problems

v. Difficulty in writing/ speaking
vi. Confidence level
vii. Hostel/Food issues(Homesickness)
viii. Girl's/Women's issues
ix. In case of any other observations, it is noted and discussed.

1. Class Advisor:

A class Advisor is appointed to monitor & coordinate the activities of the respective class. Class Advisor maintains a record of defaulter list, roll call list, etc. and mentors the students related to academic performance, less attendance, etc.

2. Academic Guidance:

- Support to improve performance of students: Based on the previous year's result and Mid Semester Examination performance and overall behavior of students; weak and bright students are identified in each class and appropriate mentoring is done to improve the performance of weak students and motivate bright students.
- Remedial classes are conducted for students who have backlogs. Unit wise discussion is conducted in each remedial session.
- Program coordinator, course coordinators, class Advisors & GFMs continuously communicate with students and motivate them to perform well in academics and enhance their knowledge through various modes like Add on courses, internships, etc.

Parents-Teacher Meeting is held once in semester to brief the progress of their wards to their parents. This process has improved students' academic performance, attendance and participation in co-curricular and extra-curricular activities.

3. Professional and Career Guidance:

- A dedicated **Training & Placement Coordinator (TPC)** is appointed by the institute to coordinate the placement related activities.
- Various career guidance sessions like higher education opportunities in India and abroad, latest trends in industries etc. are conducted throughout the year for students to enhance their vision and broaden their mindset to lead their lives on a successful

career path.

- Apart from higher education opportunities, sessions like aptitude training, group discussion sessions, interview preparations, etc. are regularly conducted by TPCs to improve students' performance in placement activities for various companies.
- On the technical front, several technical training sessions are conducted by course coordinators and industry persons alike for students to keep them updated with latest technical knowledge.
- Students are encouraged to take part in various co-curricular & extra-curricular events to ensure their all-round development by participating and organizing such events at regular intervals.

Efficacy of Mentoring System:

- After mentoring and counseling it was observed that the academic performance of students improved.
- Also some of abilities such as time management, teamwork, goal setting and softskills were improved.
- In some cases, it helped students to overcome insecurities about their abilities as an engineering student and encouraged them to prepare for the next steps in their academic program and career.

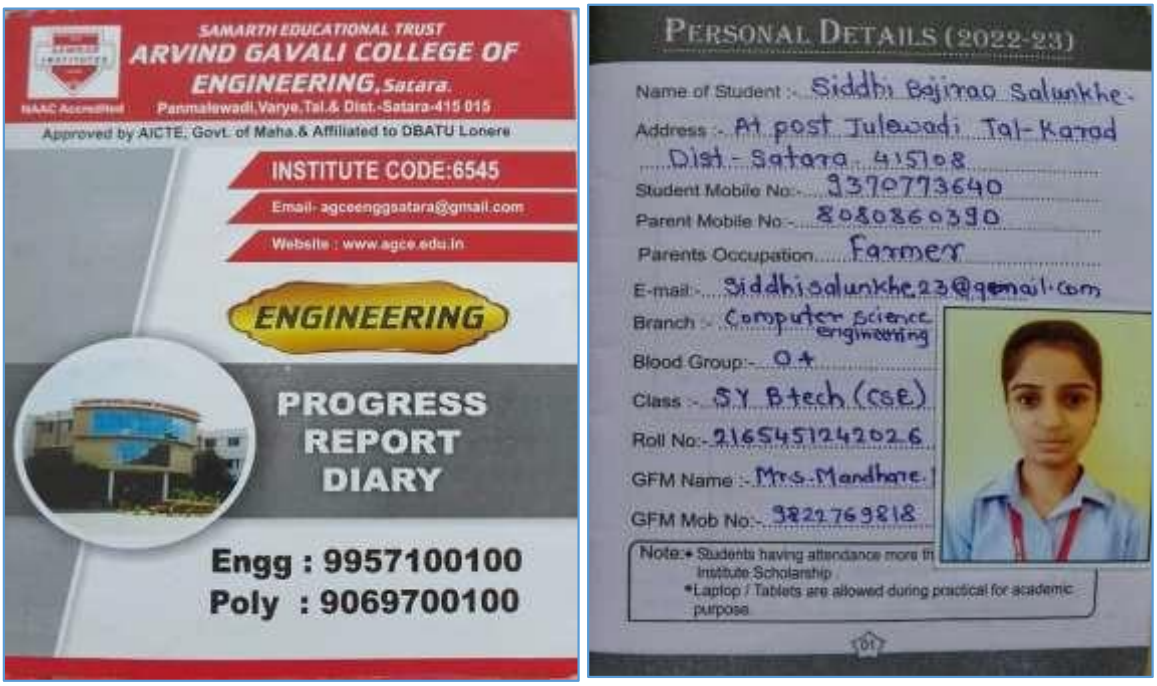


Fig. 9.1.a: GFM Diary

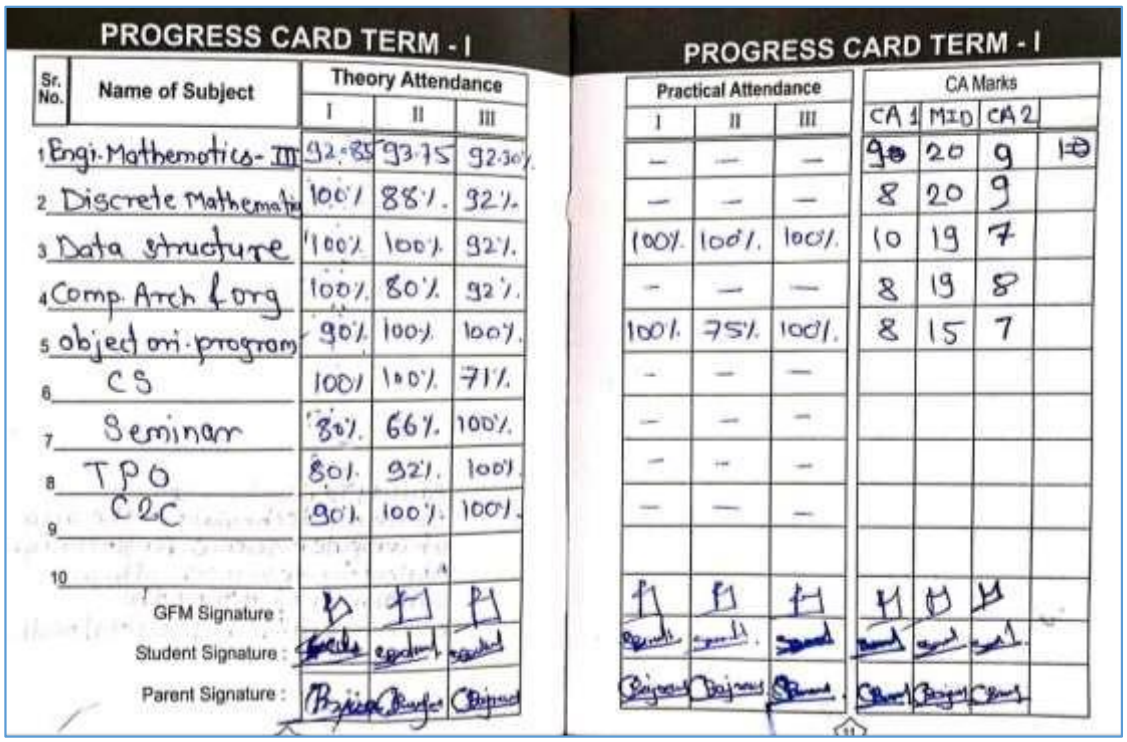


Fig. 9.1.b : GFM Diary

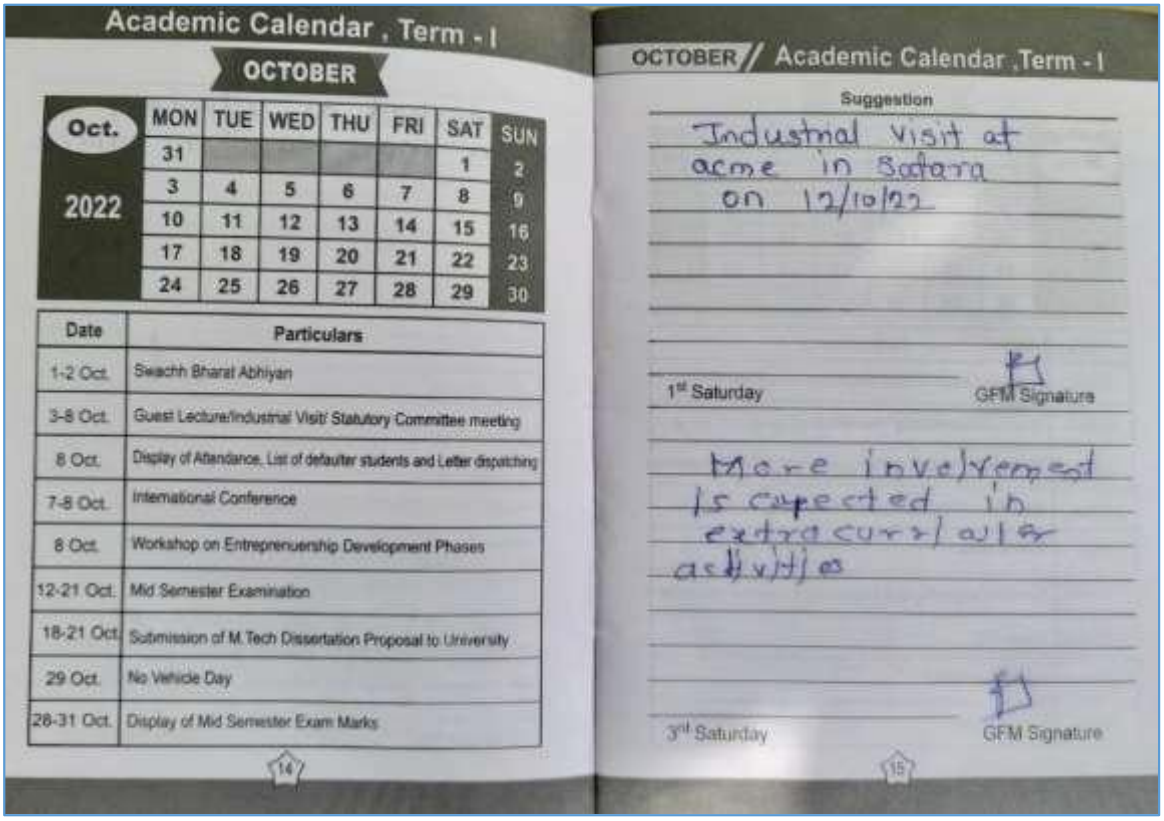


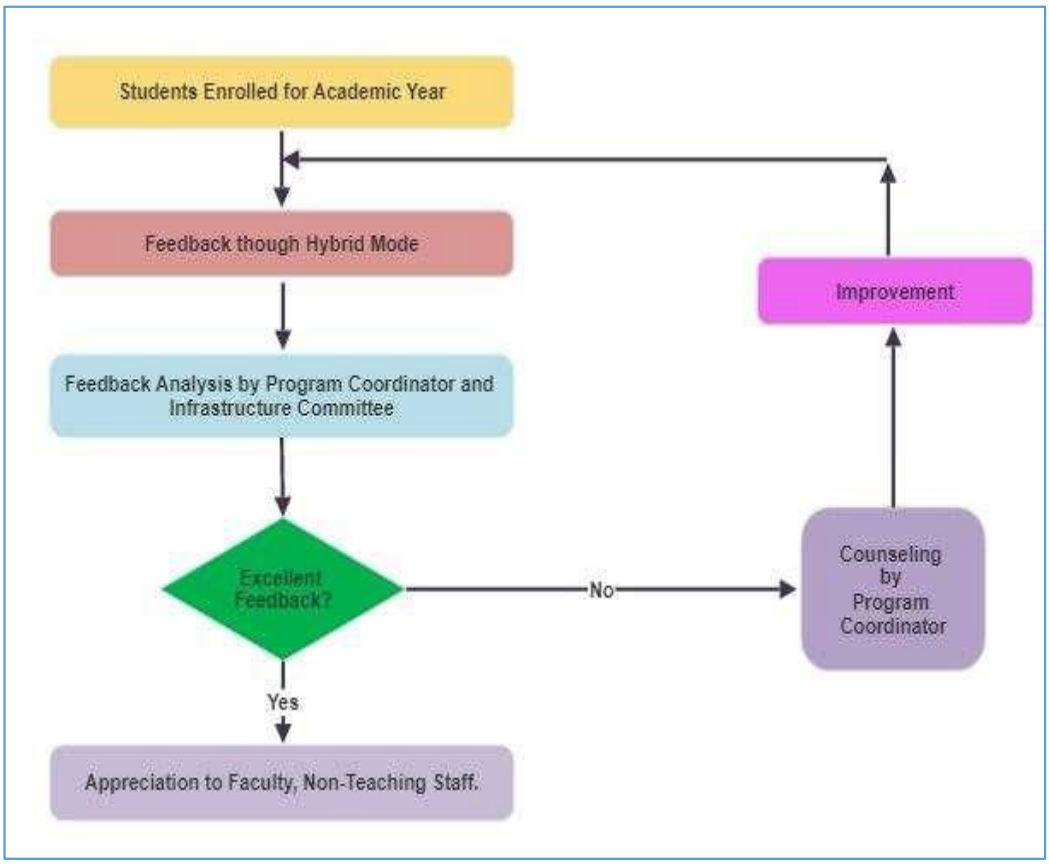
Fig. 9.1.c : GFM Diary

9.2 Feedback analysis and reward/corrective measures taken, if any(10)

Feedback collected for all courses: Yes

The feedback process helps course coordinators understand the lacunas and scope for improvements. Also it appreciates the hard work done by the course coordinators.

Feedback collection process:



9.2.a : Feedback Collection and analysis Process

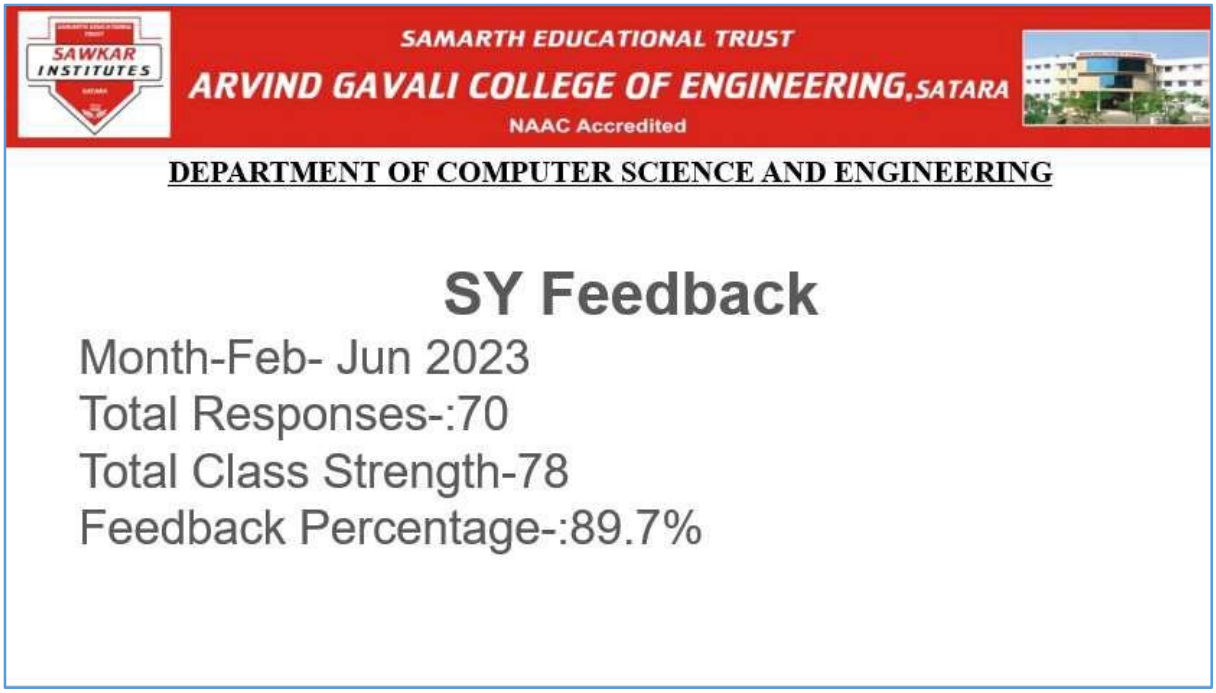
The teaching-learning system followed by any educational institution needs continuous refinement. To facilitate this process of continuous refinement, the institution has adopted a feedback system that takes suggestions from students of each program.

This eventually helps to fine-tune the teaching-learning process and the curriculum. The institution follows a well-defined feedback system. It has been identified as one of the important processes in our teaching learning system.

The students those who have attendance more than average are given an opportunity to express their opinion with regards to effectiveness in teaching by a teacher, which are detailed in the feedback format. The feedback from students regarding the quality of teaching is collected twice in a semester, using Google apps. This also helps the teachers in improving their teaching methodology.

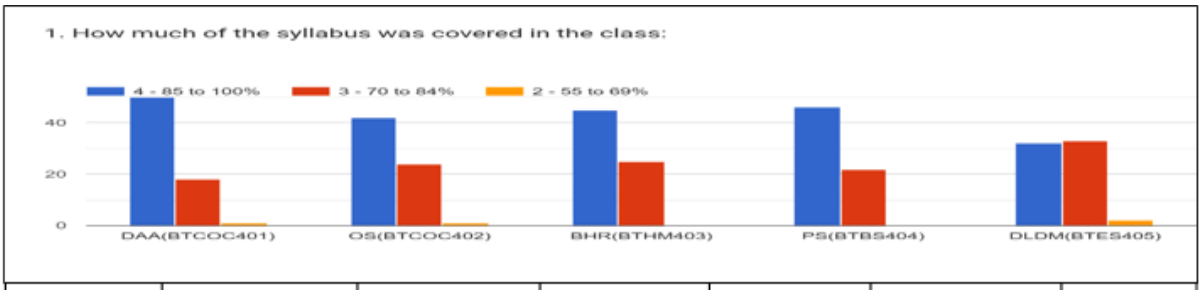
Feedback is collected online twice in a semester (either through Moodle / Google Form) from students with above average attendance. This feedback is completely anonymous and students are encouraged to give their honest feedback.

The feedback is collected on five-point scale

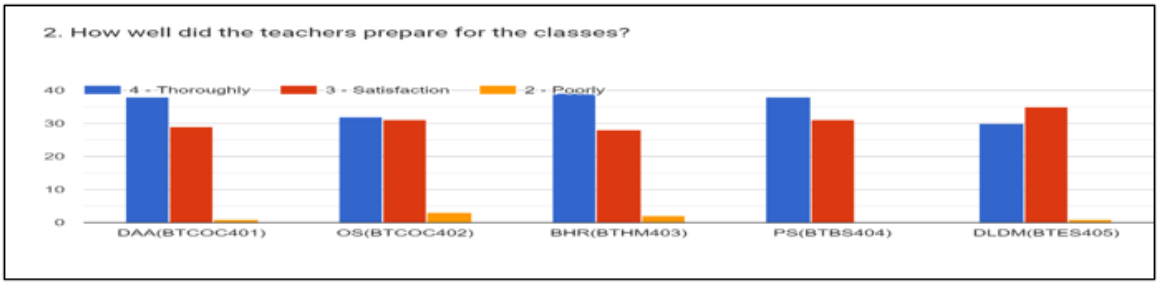


Faculty-Subject Distribution

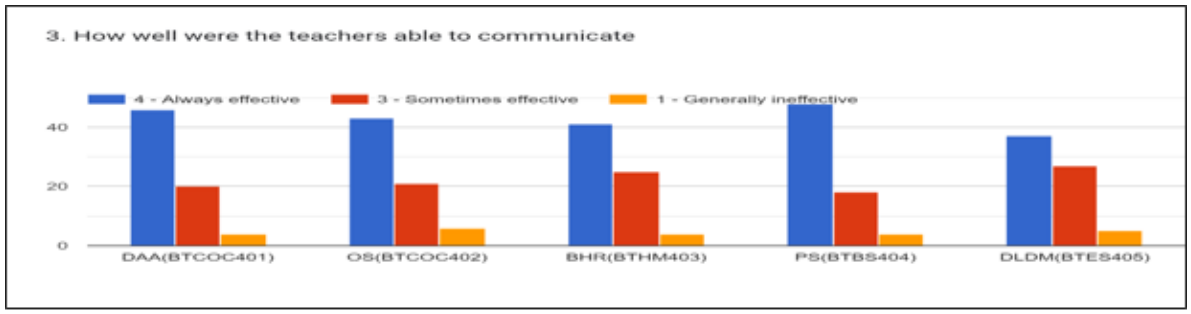
Sl.No	Subject	Abb.	Name of the Faculty	Abb.
1	DAA(BTCOC401)	DAA	Mrs. Mandhare R.M.	MRM
2	OS(BTCOC402)	OS	Mr. Gujar V.B.	GVB
3	BHR(BTHM403)	BHR	Mr. Dixit D.C.	DDC
4	PS(BTBS404)	PS	Ms Mulla S.Y.	MSY
5	DLDM(BTCOE305)	DLDM	Dr Shaha M.M	SMM



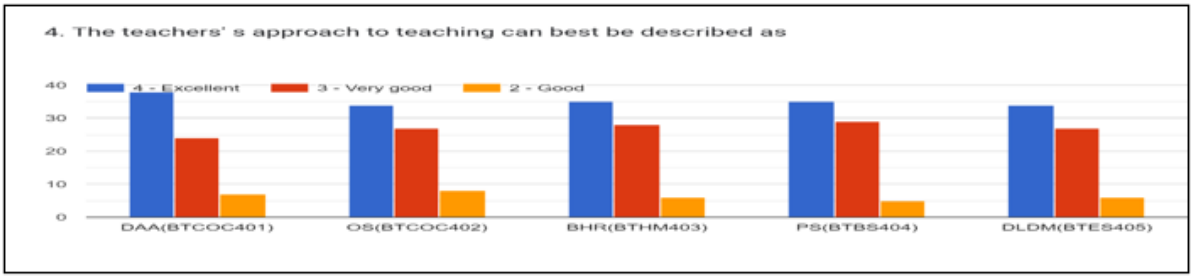
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
85 to 100%	50	43	46	46	34	62.57%
70 to 84%	18	25	24	24	34	35.71%
55 to 69%	2	2	0	0	2	1.72%
Total	70	70	70	70	70	100%



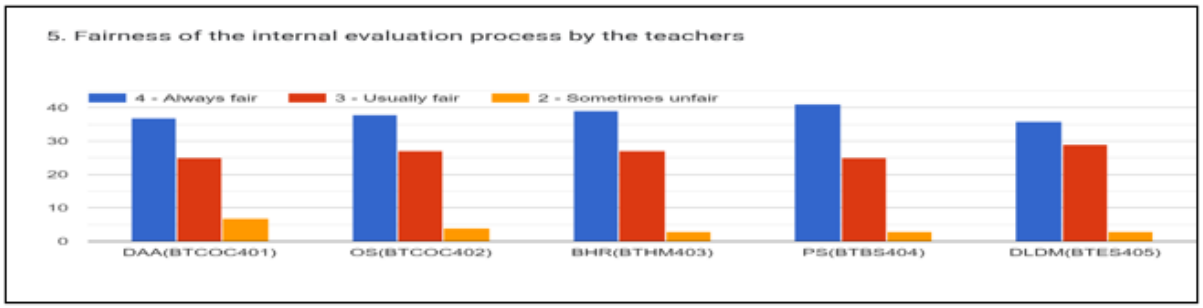
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Thoroughly	40	35	40	38	34	53.43%
Satisfaction	29	31	28	32	35	44.29%
Poorly	1	4	2	0	1	2.28%
Total	70	70	70	70	70	100%



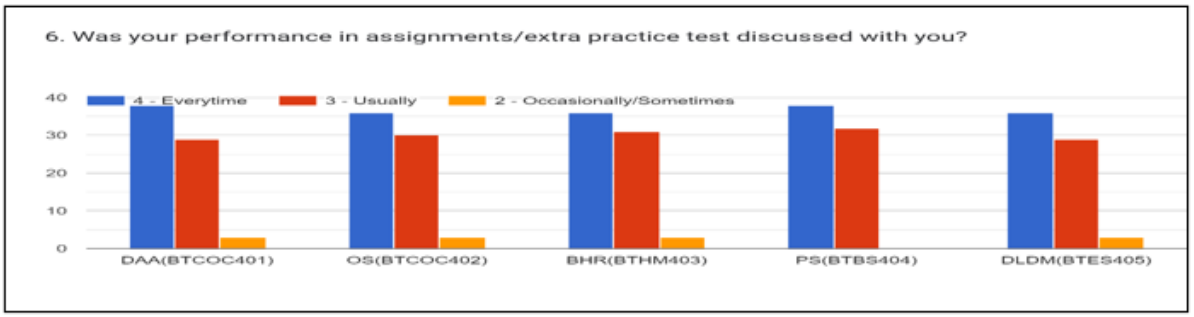
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Always Effective	45	44	40	48	38	61.43%
Sometimes Effective	20	20	25	18	26	31.14%
Generally ineffective	5	6	5	4	6	7.43%
Total	70	70	70	70	64	100%



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE305)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Excellent	40	34	35	36	37	52
Very Good	24	28	29	29	27	39.14
Good	6	8	6	5	6	8.86
Total	70	70	70	70	64	100%

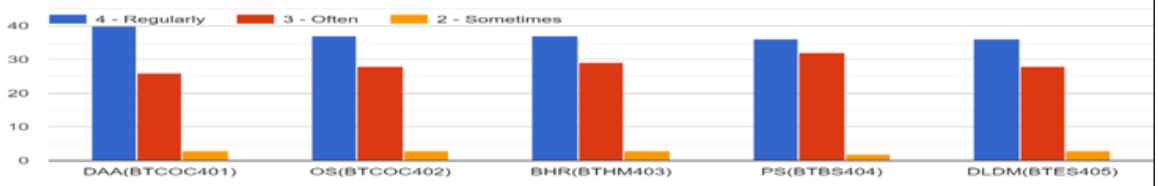


Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Always Fair	38	39	40	41	37	55.71%
Usually Fair	25	27	26	25	29	37.72%
Sometimes Unfair	7	4	4	4	4	6.57%
Total	70	70	70	70	64	100%



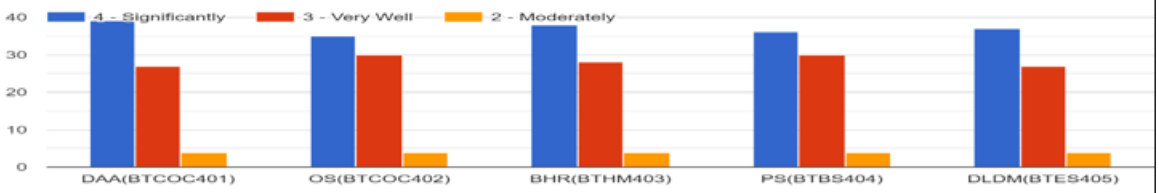
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE305)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Everytime	38	35	35	38	38	52.57%
Usually	29	30	30	32	28	42.57%
Ocassionally/ sometimes	3	5	5	0	4	4.86%
Total	70	70	70	70	64	100%

7. The faculty takes active interest in promoting internship, student exchange, field visit opportunities for students. *

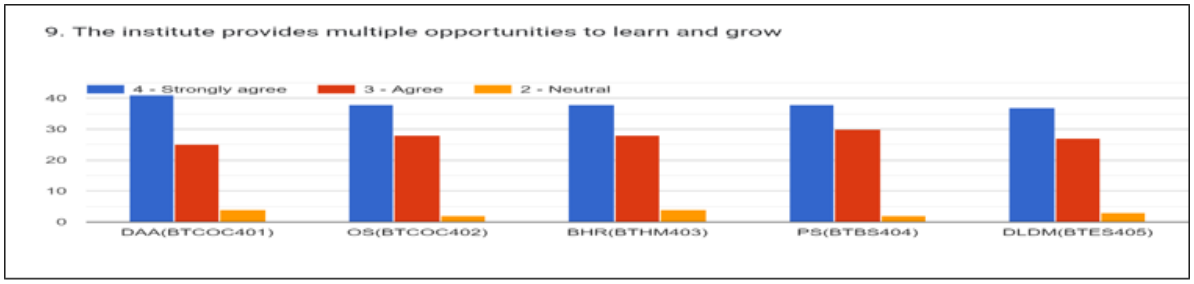


Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M .	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Regularly	40	38	37	35	38	53.71%
Often	26	28	29	32	28	40.83%
Sometimes	4	4	4	3	4	5.46%
Total	70	70	70	70	70	100%

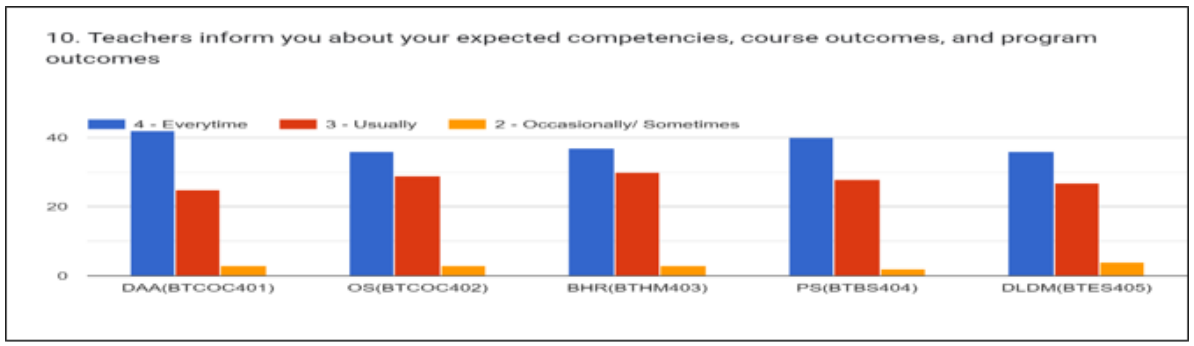
8. The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.



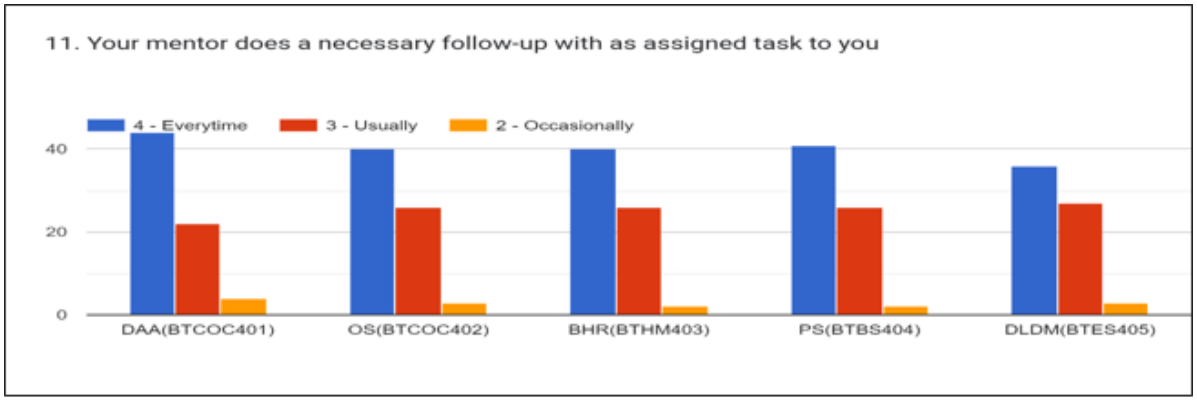
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Significantly	40	35	38	36	39	53.71%
Very Well	26	31	28	30	27	40.58%
Moderately	4	4	4	4	4	5.71%
Total	70	70	70	70	70	100%



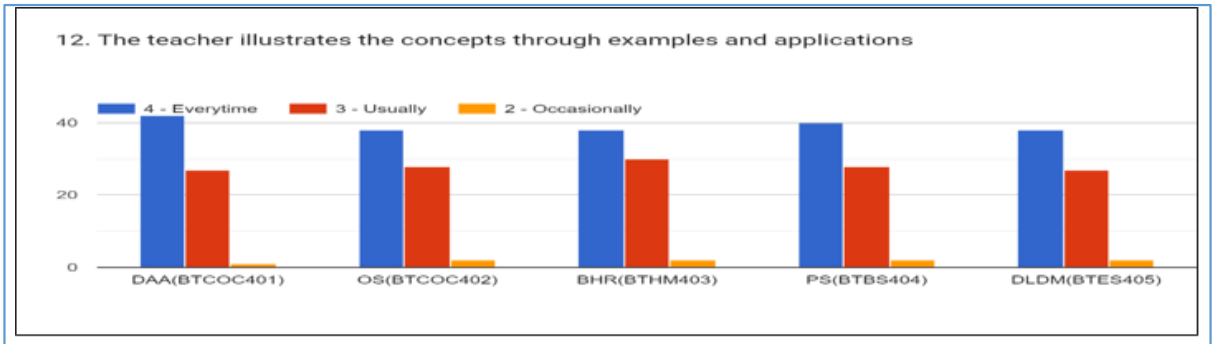
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Strongly Agree	40	38	38	38	39	55.14%
Agree	26	30	28	30	27	40.29%
Neutral	4	2	4	2	4	4.57%
Total	70	70	70	70	70	100%



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Everytime	42	36	36	40	36	54.28%
Usually	24	28	30	26	26	38.29%
Ocassionally/ sometimes	4	6	4	4	8	7.43%
Total	70	70	70	70	70	100%



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Every time	44	40	40	40	38	57.71%
Usually	22	25	25	25	28	35.72%
Ocassionally	4	5	5	5	4	6.57%
Total	70	70	70	70	70	100%

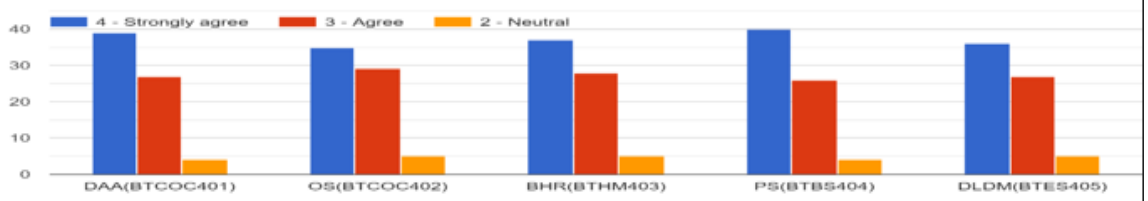


Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M .	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Everytime	42	38	38	40	38	56%
Usually	26	28	30	28	28	40%
Ocassionally	2	4	2	2	4	4%
Total	70	70	70	70	70	100%

Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Fully	40	35	38	38	36	53.43%
Reasonably	26	30	28	30	30	41.14%
Partially	4	5	4	2	4	5.43%
Total	70	70	70	70	70	100%

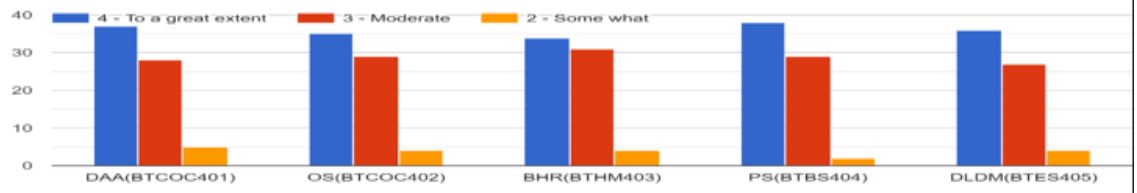
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Everytime	40	33	36	37	35	51.71%
Usually	25	33	30	29	30	42%
Ocassionally	5	4	4	4	5	6.29%
Total	70	70	70	70	70	100%

15. The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.

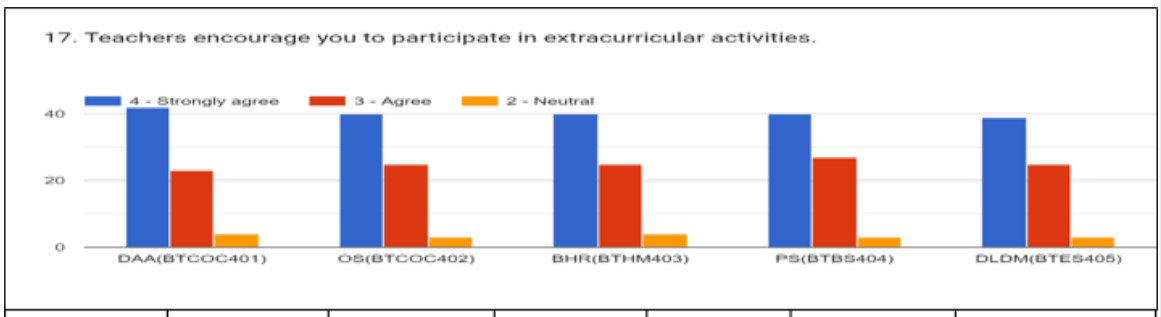


Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Strongly Agree	40	35	37	40	36	53.71%
Agree	25	30	27	25	28	38.58%
Neutral	5	5	6	5	6	7.71%
Total	70	70	70	70	70	100%

16. The institute/ teachers use student-centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences

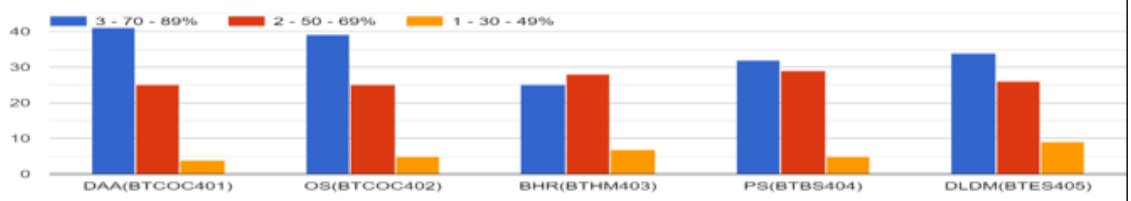


Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
To a great extent	38	35	35	38	37	52.28%
Moderate	27	30	30	28	28	40.86%
Some what	5	5	5	4	5	6.86%
Total	70	70	70	70	70	100%



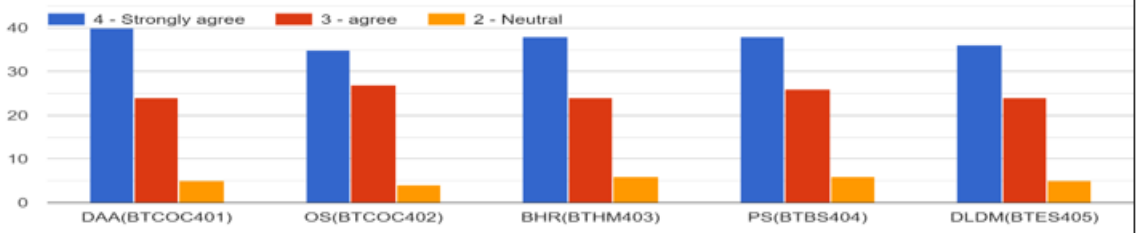
Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
Strongly Agree	42	40	40	40	40	57.71%
Agree	24	25	25	25	25	35.43%
Neutral	4	5	5	5	5	6.86%
Total	70	70	70	70	70	100%

19. What percentage of teachers use ICT tools such as LCD projector, Multimedia , etc while teaching



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTCOE405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
70 to 89%	40	40	35	36	35	53.14%
50 to 69%	25	25	28	29	26	38%
30 to 49%	5	5	7	5	9	8.86%
Total	70	70	70	70	70	100%

20. The overall quality of teaching-learning process in your institute is very good



Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M..M.	
Strongly Agree	40	38	38	38	36	54.29%
Agree	25	27	24	26	28	37.14%
Neutral	5	5	8	6	6	8.57%
Total	70	70	70	70	70	100%

Subject Name	DAA (BTCOC401)	OS (BTCOC402)	BHR (BTHM403)	PS (BTBS404)	DLDM (BTES405)	%
Name of Faculty	Mrs. Mandhare R. M.	Mr. Gujar V.B	Mr. Dixit D.C.	Ms. Mulla S.Y.	Dr Shah M.M.	
To a great extent	40	38	38	40	38	55.43%
Moderate	25	25	25	25	26	36%
Some what	5	7	7	5	6	8.57%
Total	70	70	70	70	70	100%

Give 3 Observation/Suggestion to improve the overall teaching learning experience of respective teachers

1. We need industrial experts for teaching , more guest lectures , workshops should be arranged for interview training.
2. Communicate with every students.
3. Teaching Learning Process is good.
4. Learning experience are wonderful for all subjects.
5. Increase soft skills program.

Fig 9.2 b Feedback Collection

Overall Analysis

Subject	Faculty	Appreciation	Suggestion for improvement	Sign
DAA(BTCOC401)	Mrs. Mandhare. R.M	1. Good teaching Process. 2. Encourage to participate in extra curricular activities. 3. Illustrate the concept through example and application.	1. Need to use student centric method. 2. Need to discuss test performance with students.	
OS(BTCOC402)	Mr. Gujar V.B.	1. Covered syllabus with in timeline. 2. Take student follow-up regularly. 3. Provide multiple opportunities to learn and grow.	1. Need to take efforts to make students ready for world work. 2. Need to illustrate the concept through examples. 3. Need to inform student about Co's and Po's.	
BHR(BTHM403)	Mr. Dixit D.C.	1. Encourage students to participate in extra curricular activities. 2. Take student follow-up regularly. 3. Conduct fair internal evaluation.	1. Need to improve teaching process. 2. Need to use ICT tools at the time of teaching. 3. Need to provide multiple opportunities to learn and grow.	

AMC

Arvind Gavali College of Engineering EN 6545 Satara

H.O.D.
Head Computer Science & Engg.
Arvind Gavali College of F
Panmalewadi

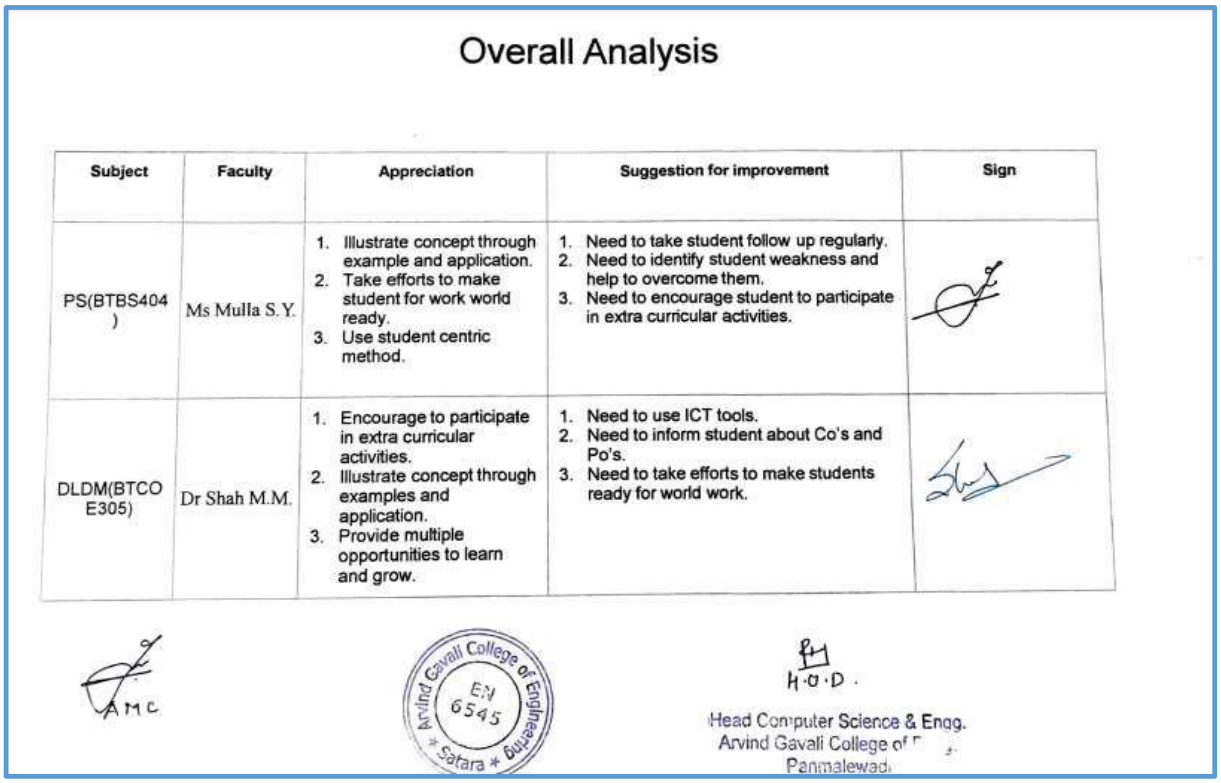
Overall Analysis

Subject	Faculty	Appreciation	Suggestion for improvement	Sign
DAA(BTCOC401)	Mrs. Mandhare. R.M	1. Good teaching Process. 2. Encourage to participate in extra curricular activities. 3. Illustrate the concept through example and application.	1. Need to use student centric method. 2. Need to discuss test performance with students.	
OS(BTCOC402)	Mr. Gujar V.B.	1. Covered syllabus with in timeline. 2. Take student follow-up regularly. 3. Provide multiple opportunities to learn and grow.	1. Need to take efforts to make students ready for world work. 2. Need to illustrate the concept through examples. 3. Need to inform student about Co's and Po's.	
BHR(BTHM403)	Mr. Dixit D.C.	1. Encourage students to participate in extra curricular activities. 2. Take student follow-up regularly. 3. Conduct fair internal evaluation.	1. Need to improve teaching process. 2. Need to use ICT tools at the time of teaching. 3. Need to provide multiple opportunities to learn and grow.	

AMC

Arvind Gavali College of Engineering EN 6545 Satara

H.O.D.
Head Computer Science & Engg.
Arvind Gavali College of F
Panmalewadi



Overall Analysis

Subject	Faculty	Appreciation	Suggestion for improvement	Sign
PS(BTBS404)	Ms Mulla S.Y.	1. Illustrate concept through example and application. 2. Take efforts to make student for work world ready. 3. Use student centric method.	1. Need to take student follow up regularly. 2. Need to identify student weakness and help to overcome them. 3. Need to encourage student to participate in extra curricular activities.	
DLDM(BTCOE305)	Dr Shah M.M.	1. Encourage to participate in extra curricular activities. 2. Illustrate concept through examples and application. 3. Provide multiple opportunities to learn and grow.	1. Need to use ICT tools. 2. Need to inform student about Co's and Po's. 3. Need to take efforts to make students ready for world work.	

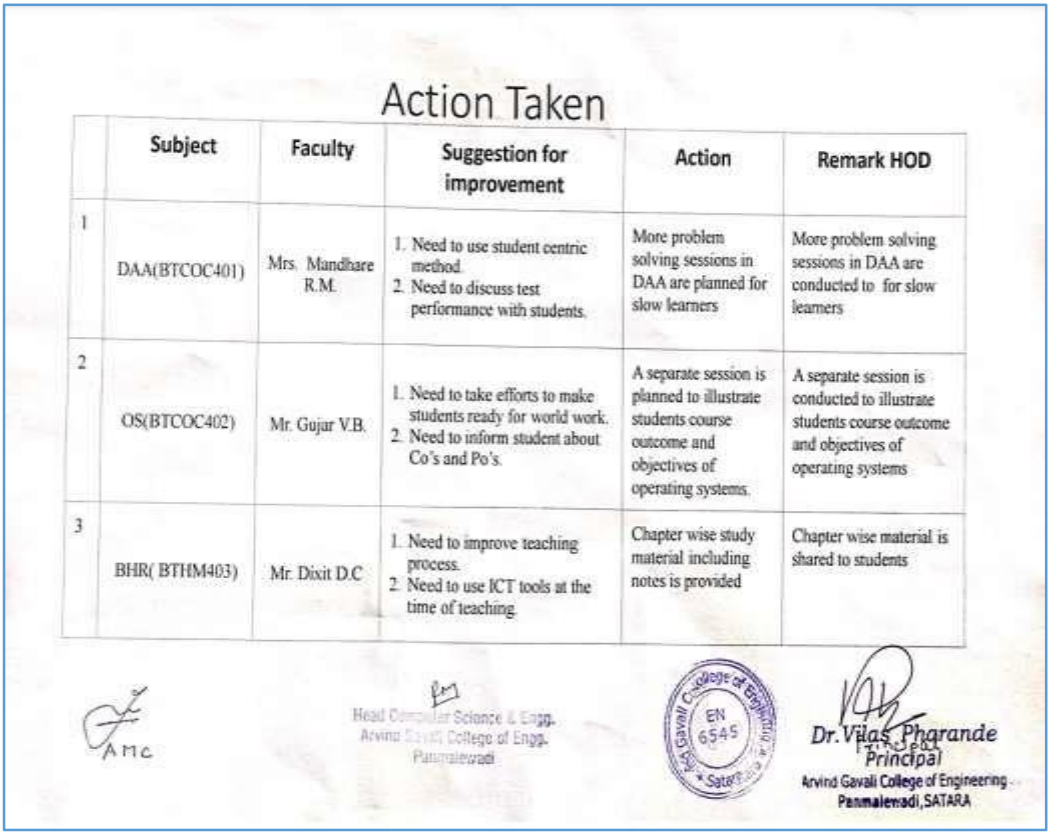
AMC

Arvind Gavali College of Engineering EN 6545 Satara

H.O.D.

Head Computer Science & Engg.
Arvind Gavali College of
Panmalewadi

FIG 9.2.C Feedback Analysis



Action Taken

	Subject	Faculty	Suggestion for improvement	Action	Remark HOD
1	DAA(BTCOC401)	Mrs. Mandhare R.M.	1. Need to use student centric method. 2. Need to discuss test performance with students.	More problem solving sessions in DAA are planned for slow learners	More problem solving sessions in DAA are conducted to for slow learners
2	OS(BTCOC402)	Mr. Gujar V.B.	1. Need to take efforts to make students ready for world work. 2. Need to inform student about Co's and Po's.	A separate session is planned to illustrate students course outcome and objectives of operating systems.	A separate session is conducted to illustrate students course outcome and objectives of operating systems
3	BHR(BTHM403)	Mr. Dixit D.C	1. Need to improve teaching process. 2. Need to use ICT tools at the time of teaching.	Chapter wise study material including notes is provided	Chapter wise material is shared to students

AMC

Head Computer Science & Engg.
Arvind Gavali College of Engg.
Panmalewadi

Arvind Gavali College of Engineering EN 6545 Satara

Dr. Vilas Pharande
Principal
Arvind Gavali College of Engineering
Panmalewadi, SATARA

Fig 9.2.d Corrective Action Taken

Students Feedback Analysis procedure

The staff appraisal committee members at program level collects the online feedback and prepare the consolidated report. The staff appraisal committee members analyze feedback and discuss it with program coordinator and accordingly corrective and preventive measures are carried out if necessary. This feedback is communicated to the concerned faculty through program coordinator.

Effectiveness of Feedback System:

- Faculties having poor feedback in mid semester were counseled by program coordinator. During counseling program coordinator gave suggestions for the improvement to the concern faculty.
- It was observed that after counseling, end semester feedback of concern faculty was improved.

Corrective Measures:

Table9.2.a:Year-wise corrective measure data

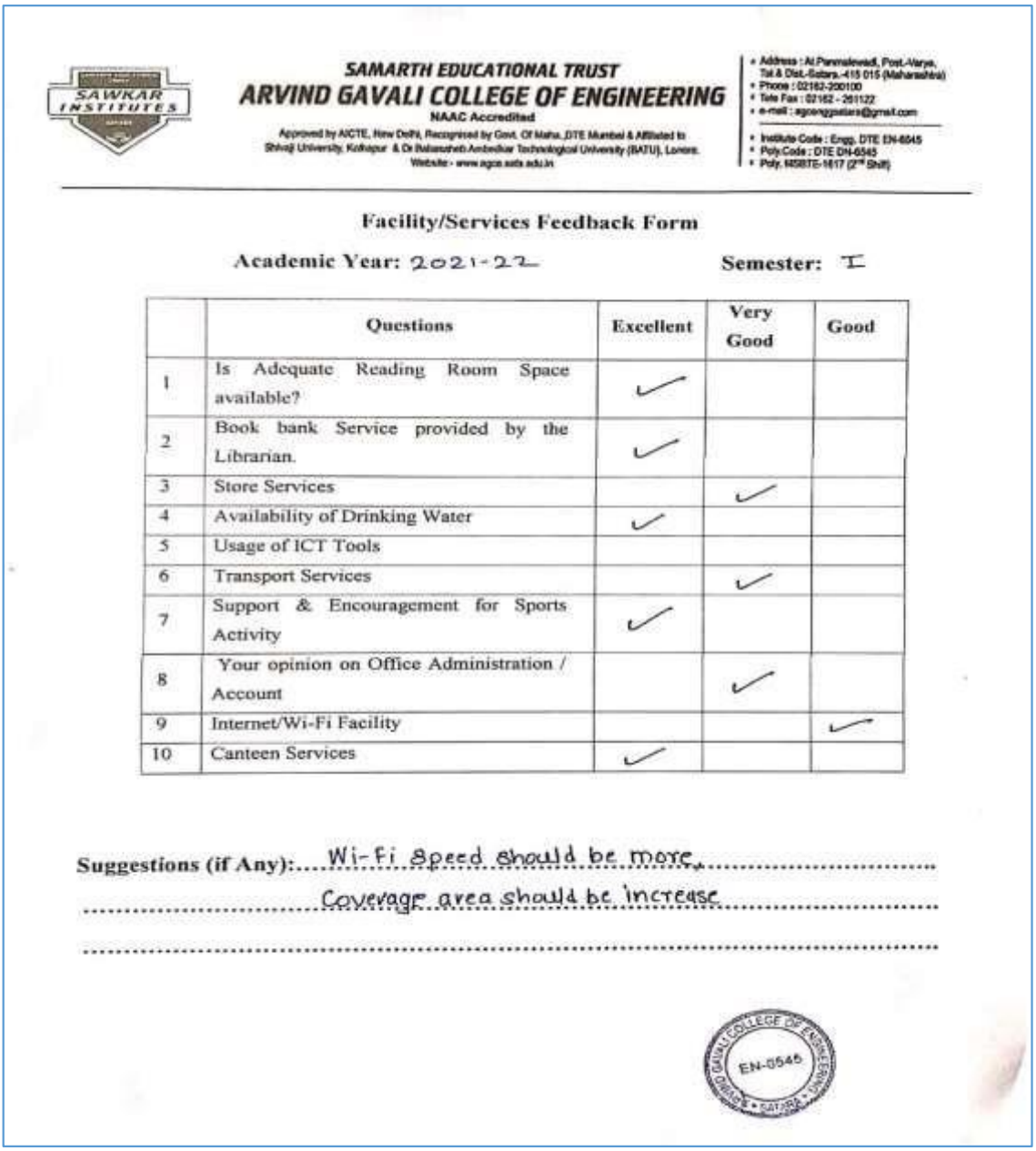
Academic Year	Suggestion recognized through Feedback Process	Corrective actions taken
2022-23	Soft skill Training and Technical Training Sessions	Soft skill and Technical training sessions organized for C++, Web Development, Python
2021-22	Students demand for Practical based Learning.	Emphasis is given on Project Based Learning (IOT Projects + Projects involved for Seminar Course)
2020-21	Organize soft skill development program	Separate Slot for Soft skill Session (Campus to Corporate) is allotted in Timetable.
2019-20	Technical Training Program should be organized.	4 Weeks Industry Training Program(Yugam Event) conducted for IOT, AI, Web Designing Domains.
2018-19	More Usage of ICT TOOLs for Teaching Learning Process.	Students are encouraged to attempt Quizzes, MCQ Test on MOODLE. Facility of Intelligent Interactive Panel is Provided in Classrooms.

The suggestions/complaints/appreciations from the students are shared with the concerned course coordinator through program coordinator. This process is useful to evaluate course coordinator performance.

9.2 Feedback on facilities (05)

Feedback collection procedure

The institute has set the process of facility feedback mechanism to improve the quality and performance. In every semester, feedback is collected from the students on the various facilities provided to them such as library, transport, internet, canteen, sports etc. The feedback from students regarding the facilities is collected in a semester.



SAWKAR INSTITUTES

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
NAAC Accredited
Approved by AICTE, New Delhi, Recognised by Govt. Of Maha., DTE Mumbai & Affiliated to Shivaji University, Kolhapur & Dr Babasaheb Ambedkar Technological University (BATU), Lonere.
Website - www.agce.sate.edu.in

Address : At.Parenalewadi, Post.-Varye, Tal & Dist.-Satara.-415 015 (Maharashtra)
Phone : 02162-200100
Tele Fax : 02162 - 251122
e-mail : agcengg satara@gmail.com
Institute Code : Engg. DTE EN-6545
Poly.Code : DTE EN-6545
Poly. MSBTE-1617 (2nd Shift)

Facility/Services Feedback Form

Academic Year: 2021-22 **Semester:** I

	Questions	Excellent	Very Good	Good
1	Is Adequate Reading Room Space available?	✓		
2	Book bank Service provided by the Librarian.	✓		
3	Store Services		✓	
4	Availability of Drinking Water	✓		
5	Usage of ICT Tools			
6	Transport Services		✓	
7	Support & Encouragement for Sports Activity	✓		
8	Your opinion on Office Administration / Account		✓	
9	Internet/Wi-Fi Facility			✓
10	Canteen Services	✓		

Suggestions (if Any): Wi-Fi Speed should be more.
Coverage area should be increase

EN-0545

Fig 9.3.a: Facility Feedback Form

Feedback Analysis: The feedback is collected and analyzed based on the facilities

provided like sports, canteen, library; etc .and corrective measures are taken as per the feedback (if required).

Corrective Action Taken:

Table9.3.a:Year-wise corrective measure data regarding facilities

Sr. No.	Academic Year	Comments given by student	Action Taken/outcomes
1	2019-20	Extend Library Timing	Library Closing time is extended. Reading Room is available for 12 hours.
		Decide and Fix the menu of Canteen.	Canteen Committee is formed.
2	2020-21	Store Services should be available after college hours or Saturday	Store Services are available on Saturday.
3	2021-22	Increase no. of buses for transportation for Rahimatpur , Medha Route.	Two New buses started for Rahimatpur route and Medha Route
		Increase Wi-Fi Internet Speed	Separate Network for Wi-Fi is established in order to receive higher frequency internet data.
4	2022-23	Gym Facility	Institute Build open Gym facility for students

9.4 Self-Learning (05)
Scope for self-learning:

- Students are encouraged to register for online courses offered by world's leading MOOC

  Platforms like Coursera, NPTEL, Udemy.
- Exclusive Library Slot is assigned in timetable for self learning.
- Digital Library available at institute level.(DELNET)
- Technical competitions, workshops, seminars, quiz competitions are being conducted where students actively participate.
- Students are also encouraged to register for national level competitions for overall development.

Facilities for self-learning:

- IIT Remote Center
- Open Source Videos
- Digital Library
- Internet WI-FI
- Virtual Lab
- DELNET Library
- NPTEL Local Chapter
- MOODLE

Students are facilitated with a well-equipped library provided with latest edition of books, e-Books, online and printed journals and modern labs. The college central library is well equipped with technical magazines, journals and NPTEL lecture videos. The Institute facilities use the library resources to enhance the self-learning of students in following ways:

- The Institute library has a collection of reference books, handbooks on different courses.
- Internet and Wi-Fi facility is provided to all students and staff.
- To update themselves with the current news and latest technological developments, students and staff avail the facilities of News papers and magazines in the library.
- Students are provided with the book bank facility for all students.

- Question paper sets of all subjects of previous University examination are available in the central library.
- Old project reports of students are maintained in departmental library which are referred regularly by students of the department.

Fig. 9.4.a: DELNET Web portal

Fig. 9.4.a: Students Participating In Online Certification Courses

Effective Utilization:

- Students used various self-learning tools for their seminars, mini projects and final year projects.
- Every student has login ID and Password for accessing the internet.
- Students have been given access to library through KOHA software. This facilitates ease of access to library.
- Students have attended the Spoken English and Technical Skill Development sessions through IIT Remote Center.
- Students have been guided and encouraged to learn NPTEL courses through NPTEL Local Chapter.
- The college central library has NPTEL videos, educational CDs having lectures of renowned Professors.
- Students are provided DELNET library facility to refer online books, journals.
- Students have individual account on MOODLE and thereby they can attempt quizzes, read study materials uploaded by faculty members.

9.5 Career Guidance, Training, Placement (10)

The institution may specify the facility, its management and its effectiveness for career guidance including counseling for higher studies, campus placement support, industry interaction for training/ internship /placement etc.

Facility:

- Institute has a Training and Placement cell, responsible for grooming the students to be industry ready and provide opportunities for placement.
- T&P cell organizes various programs for overall personality development of the students.
- Experienced industry professionals in the respective domain of job profiles are invited for guest lectures.
- Through these activities, the students are made aware of the opportunities in various fields along with the required job profile. At the same time, they get a chance to interact with these industry professionals to take advantage of their experience in respective field of expertise.
- Career guidance books such as GRE, GATE are available in the library.

In addition, with T&P Cell, Institute has initiated Campus To Corporate Activity to help students improve communication skills, interpersonal skills, societal awareness and inculcate ethics.

Facility Management:

- The students are groomed through lectures on aspects of pre-requisites for facing interviews such as preparing an effective prototype resume and effective measures and presentation skills to face an interview.
- The students are also counseled for taking up higher studies in India as well as abroad.

Placement Procedure:

Institute training and placement cell procedure is as follows

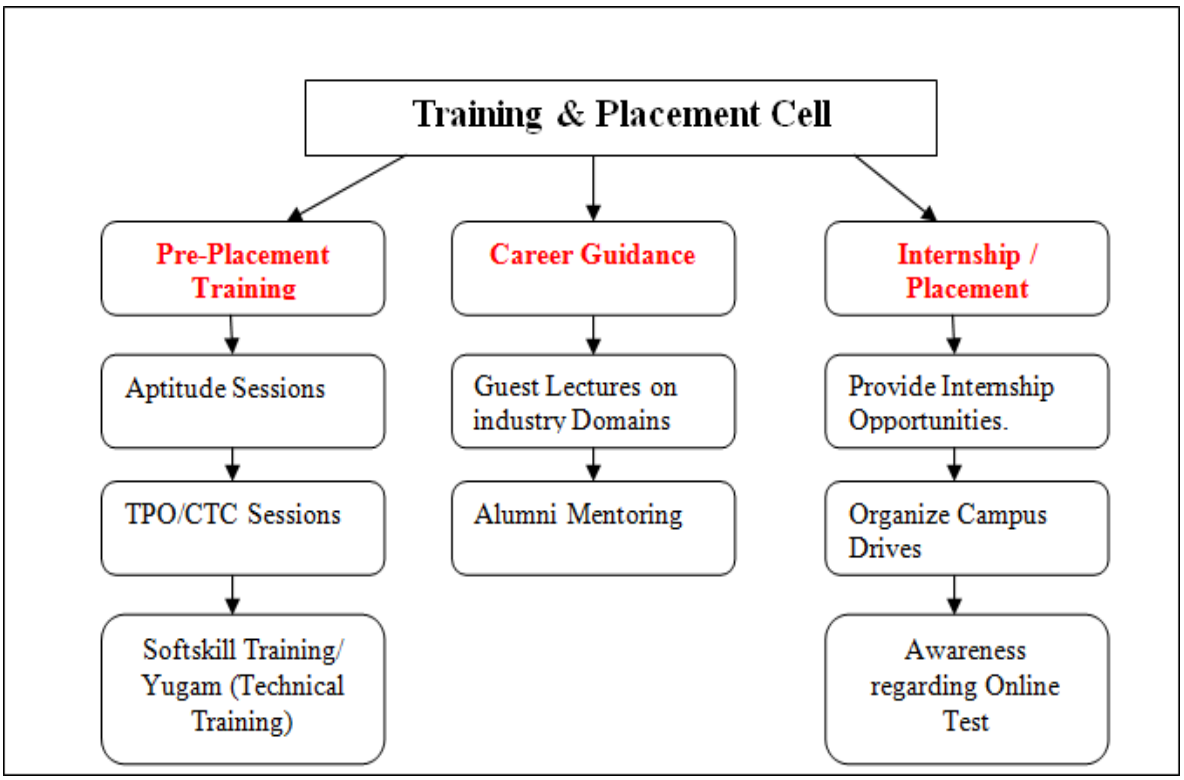


Fig. 9.5.a: Institute training and placement cell procedure

Counseling for Higher studies:

Following are the activities carried for higher studies counseling;

TableNo.9.5a Counseling for Higher Studies:

Academic Year	Details	Speaker/Expert	Date
2022-23	Opportunities is IT Industry and Japan	Mr. Bipin Kadam (Think smart Soft,Tokyo, Japan)	03/05/2023
2022-23	Higher studies in various abroad universities	Mr. Shekhar Bidwai	16/09/2022
2022-23	Guidance for GRE TOEFL	Mr. Amol Kawade	30/03/2023
2022-23	Guidance on Management Studies	Dr. Pranjali Ankule (I.S.B. &M., Pune)	14/12/2022
2021-22	German Language Training Program for promoting Students for M.S. opportunities in Germany.	Mrs. Sunita Shaligram (Trainer Chinmay Educational Consultancy, Pune)	1/03/2022 To 30/06/2022
2021-22	CDAC Preparation, Opportunities	Mr. Ashish Nalawade	31/05/2022

2021-22	EDUCON 2022 (Education Expo)	Pratyusha Employability Development(OPC) Pvt Ltd. In Association with Sawkar Institutes, Satara	14/05/2022 To 15/05/2022

Academic Year	Details	Speaker/Expert	Date
2021-22	GATE Orientation Session	GATE Tutor, Pune	22/1/2022
2020-21	Importance of Management Studies and Career Opportunities.	Mr. Omkar Tembe	16/05/2021
2020-21	How to Crack Gate Examination	Mr. Akash Pushkar (Gate Academy Pune)	5/12/2020
2020-21	Abroad career opportunities after engineering	Mr. Shubham Sasane (Elevitics, USA)	7/12/2020
2020-21	Prepare yourself for Abroad opportunities (M.S./ M.B.A)	Mr. Shekhar Bidwai, Director Chinmay Educational Consultancy, Pune	26/11/20
2019-20	Higher Education Opportunities in Abroad	Mr. Nik Kowels EU Business School, Germany (In association with CEC, Pune)	9/02/2020
2019-20	Orientation Program on GATE by ACE Academy	ACE Academy, Pune	19/09/2019
2018-19	GATE Orientation Program	R.I.T. ,Sakharale	24/09/2018

Pre-Placement Training Activities:

Following are the activities carried for Pre-placement training;

TableNo.9.5.b Pre-Placement training activities

Academic Year	Details	Speaker/Expert	Date
2022-23	Workshop on C,C++ and HTML	Mr. Swapnil Mapari (Disha Computers, Satara)	1/08/2023 To 14/08/2023
2022-23	Workshop on C,C++ and Java	Mr. Nilesh Sonawane (Design Solution, karad)	7/08/2023 To 11/08/2023
2022-23	Workshop on AutoCad	Mr. Mahesh Sathe (Design Solution, karad)	10/08/2023 To 18/08/2023

Academic Year	Details	Speaker/Expert	Date
2022-23	Workshop on PCB Designing and Manufacturing	Mr. Pravin Mohite (Aprontech, Satara)	7/08/2023 To 18/08/2023
2022-23	Workshop on C,C++ and Python	Mrs. Pranali Nalawade (Squirrel's Infotech)	7/08/2023 To 18/08/2023
2022-23	Workshop on Automation in IOT	Tushar Inamdar (Square wave Automation Pvt Ltd, Satara)	1/08/2023 To 31/08/2023
2022-23	Five days Hands-on Workshop on Web Designing and Development using HTML, CSS, PHP, JavaScript and MySQL	Mr. Nikhil Kamble (Software Developer, Code Culture, Pune)	14/06/2023 To 19/06/2023
	Five days Workshop on Introduction to Python, AI and ML	Mr. Abhiraj Ubale (Software Developer, Code Culture, Pune)	22/05/2023 To 26/05/2023
2022-23	Developing Soft skills	Mr. Sourabh Bhosale	13/02/23 to 17/02/2023
2022-23	Soft Skills for Emerging	Mr. Santosh Nalawade (Trainer , Aspiring Careers, Pune)	10/4/2023 To 13/04/2023
2021-22	English Speaking Session	Mr. Kale A.A. (A.G.C.E., Satara)	1/05/2022 To 30/06/2022

2021-22	Workshop on CATIA,CEO, Solid Works for Mechanical Engineering Students.	Mr. Sathe Mahesh (Design Solution, Pune)	1/03/2022 To 31/05/2022
2021-22	Campus To Corporate Activity	Ms.Bhilare N.S. Mr. Kale A.A. (A.G.C.E., Satara)	1/05/2022 To 30/06/2022
2021-22	Aptitude Sessions	Mr. Patil S.P. Mrs. A.D. Kasture (A.G.C.E., Satara)	1/03/2022 To 30/05/2022
2021-22	Group Discussion: Etiquettes and Practice	Mr. Pathak P.A. Mr. Kale A.A. (A.G.C.E., Satara)	14/05/2022 21/05/2022 28/05/2022
2020-21	Development of Communication Skills	Prof. Pramod Dastoorkar (Professor, MIT Academy of Engg, Pune)	24/11/20
2020-21	Attitude Building for professional Excellence	Prof. Pramod Bhadakawade (Symbiosis International University Pune)	23/11/20
2019-20	Yugam – Four Week Training Program on Web Designing	1) Mr. Nikhil Korade (Splendor Net Technologies, Pune) 2) Ms. Ashwini Padwal (JA Solutions) 3) Mr. Shailesh Wagle (KPIT Hinjewadi) 4) Mr. Danish Shaikh (PHP & Java Programmer) 5) Prof. Suhas Chavan(Asst Professor, Sinhgad College Pune.) 6) Mr. Roakhande S.A. (Hefshine Pvt Ltd.) 7) Mr. Vikas Pomane (CEO, Utriva Pvt Ltd.)	29/7/2020 To 4/8/2020
2019-20	Yugam – Four Week Training Program on Internet of Things.	1) Mrs.Kirti Wanjale (VIIT, Pune) 2) Mrs.Varsha Patil (Lembhe) (JSPM, Hadapsar) 3) Mr.Pravin P. Mote (TATA Communicatios, Pune)	29/7/2020 To 4/8/2020

		4) Mr.Ashish Kalambe (Modelcam Technologies Pvt. Ltd, Pune) 5) Mr.Nilesh Bhandare (Sloki Technologies Pvt Ltd, Bangalore) 6) Mr.Akshay Jadhav (Space Automation, Pune) 7) Mr.Niraj Kapase (DKTE, Ichalkaranji) 8) Mr.Vaibhav. V. Nalawade (Institute of Computer Science, Satara) 9) Mr.Pravin Koregave (Infinite Uptime India Pvt Ltd., Pune)	

Academic Year	Details	Speaker/Expert	Date
2019-20	Yugam – Four Week Training Program on Artificial Intelligence	1) Dr. Pawar A.B (Sanjivani College of Engineering, Kopargaon) 2) Ms.Pagar Yogita S. (Progressive ES,College of Aurangabad) 3) Mrs.Balshetwar S.V. (Government College of Engineering, Karad) 4) Dr.Shelake Priya M. (VIIT,Kondhawa Pune) 5) Dr.Sarita Panwar (AISSMS COE ,Pune) 6) Mr.Dhamal Tushar .B. (Tata Technology Pune) 7) Ms.Shilpa Pimpalkar (AISSMS COE ,Pune) 8) Mr.Rajgude Dattatraya (Cyabage	29/7/2020 To 4/8/2020

		Technology,Pune) 9) Mr. Gaikwad Vinod (Morning Star,Pune) 10) Mr .Tiwari (Cognifront Technology Nashik) 11) Mr. Jagdish Kolhe (Cognifront Technology Nashik)	
2019-20	Personality Development Program by Rubicon Skill Development Pvt Ltd(10th Sept to 12th Sept, 2019)	Mr. Amar Shinde, Mr. Satya S.	10/9/19 to 12/9/19
2019-20	Workshop on Introduction to Arduno and Basic Electronics	Mr. Vishwajit Kulkarni , AGCE, Satara	9/9/19 To 14/9/19
2019-20	Aptitude Sessions (40 Sessions)	Asst. Prof. S. P. Patil Asst. Prof. S.D. Pawar Asst. Prof. A.D. kasture	1/9/2019 To 13/3/2020

Academic Year	**Details**	**Speaker/Expert**	**Date**
2019-20	Yugam – Four Week Training Program for Civil Engineering	Dr.R.R.Sorate (J.S.P.M.Bawadhan) Prof.A.P.Khatri (J.S.P.M.Narhe) Prof.Kakade Sir (COE,Pune) Prof. Chafalkar Sir (J.S.P.M.Tathawade) Prof. Ban Sir (Raisoni, Nagpur) Prof.Mule Sir, (J.S.P.M.Narhe) Mr.Milind Vasudev	29 June, 2020 to 24 July,2020

		(Lax Academy) Dr.Minde Sir (MIT, Kothrud) Mr. Jojo Mathew, (HIT, Nidasoshi) Prof. Khandekar Sir (PVPIT, Pune) Dr. Wagh Sir (Zeal College, Pune) Prof. Vipul Naidu (PVPIT, Pune)	
2019-20	Yugam – Four Week Training Program on PCB Design (Electrical Engg. & E&TC Engg.)	Mr. Santosh Chavan (A S M Tracks, Shirwal) Prof. Venkatasai shreenath (BVSR,Ongol, AP) Prof. Sameer Bagwan (ADCET, Ashta) Dr. Dhanashree Gawali (Singhgad, Pune) Prof. Vishal Ambhore (VIIT, Pune) Mr. Shridhar Dudam (Smart Logic Technologies, Pune) Prof. Niraj Kapse (Electrowing Servies, Ichalkaranji) Mr.Prafull Bagade (AutoTech, Nashik) Mr.Tejas Shilamkar (Vertiv Engergy Pvt Ltd) Ms. Vinaya Kadam	29 June, 2020 to 24 July,2020

		(Free Lancer)	

Academic Year	Details	Speaker/Expert	Date
2018-19	Softskill Development Program (under lead College Activity.)	Mr.Pulkit Singh Ms. Sylviya Johnson (Eka Training)	11/03/2019 To 13/03/2019
2018-19	Group Discussion Practice Session Activity	Mr. Pathak P.A. Mr.Khade V.C. Mr. Nikam P.R. (A.G.C.E., Satara)	6/1/2019 To 27/1/2019

Fig.9.5.a:Yugam Web Designing Participant Certificate

Fig.9.5.b:English Speaking Session By Mr. A.A. Kale

Fig. 9.5.c: Five days Hands-on Workshop on Web Designing and Development in association with Code Culture, Pune

Effectiveness: These measures have proven to be effective as it is evident as show in below table.

TableNo.9.5.cYear-wise Placement Data

Student Progression	Placement Percentage			
	2021-22	2020-21	2019-20	2018-19
CSE	83%	95%	81%	66%
E&TC	81%	94%	94%	90%
Civil	80%	85%	88%	91%
Electrical	91%	82%	82%	80%
Mechanical	66%	70%	80%	72%

9.6 Entrepreneurship Cell (05)

The Entrepreneurship Development Cell (EDC) is started with the key objective of promoting and developing special knowledge of Entrepreneurship Development

The aim of entrepreneurship development cell is to improve and generate a culture of innovation amongst the students and budding entrepreneurs and start their own business.

Following activities are conducted by ED cell;

1. **Entrepreneurship Development Program** by MITCON Consultancy & Engineering Services on 18th and 19th January, 2019.
2. Organized **Industrial Motivation Campaign** for Youth by MSME ,New Delhi and IGTR, Aurangabad on 18th& 19th October, 2019. (Resource person: Mr. Arnab Bhattacharya, Mr. Shebin Cheriyan, Mr. S.D. Salunkhe RSETI, BOI Sangli)
3. Participation in **Orientation Program on Promotion and Facilitation of Entrepreneurship** among the students of AICTE affiliated institutes on 1st&2nd February, 2020
4. Participation of Students in **One Day Workshop on Entrepreneurship Development** (8 Feb,2020) under Lead College Activity.
5. **Entrepreneurship Development Program** by MITCON Consultancy & Engineering Services on 18th and 19th January, 2019.
6. Talk on **Entrepreneurship Development** by Mr. Kiran Mane from Home Multi-trading Company and Technical Institute, Satara on 9th March, 2022.
7. Organized session "**Udyojakata Vikas Yatra"** on 31st August 2023 for inculcating passion for entrepreneurship among the students. A session was conducted before inauguration of **Udyojakata Vikas Yatra. Dr. Dipak Shikrapurkar** has guided students regarding entrepreneurship.

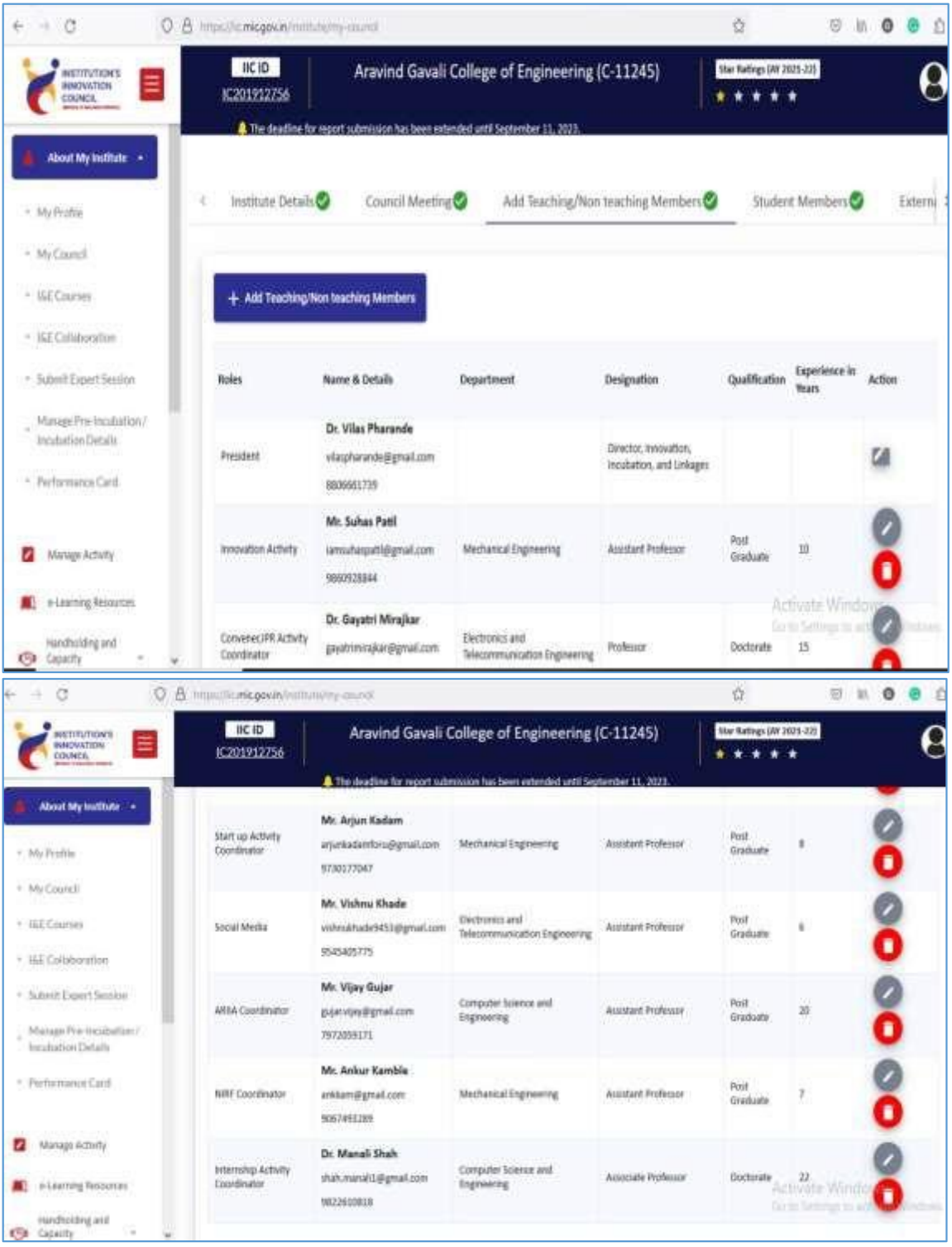


Fig.9.6.a: Under ED Cell, institute has registered for Institute Innovation Course

Fig. 9.6.b: UdyojakatVikasYatra organized at Institute.

Table No.9.6.a list of entrepreneurs

Sr. No	Nameof Student	Program	NameofOrganization
1	Randive Amol Sarjerao	CIVIL	A Enterprizes, Ghatkopar
2	Kadam Arjun Suresh	CIVIL	Mahalakshmi Construction, Satara
3	Mane Sourabh Bajirao	CIVIL	Shree Datta Construction, Mhaswad
5	Patil Raj	CIVIL	M/S Raj Constro Corporation India
6	Lohar Rohit Namdev	CIVIL	The Engineer's Caffe
7	Jdhav Sanket Shashikant	CIVIL	Rajveer Builders Satara
8	Sutar Omkar Sanjay	CIVIL	Deeparch Construction, Umbraj
9	Mali Eknath Sadashiv	CIVIL	Mali Construction, Sangali
10	Thigale Chaitanya	ELECTRICAL	Vertical Electricals, Vita
11	Kalbhor Shivraj	ELECTRICAL	Gurudatta Electricals and Engineeers, Satara
12	Raviraj Mohite	Electrical	Ravi Electricals, Satara
13	Karande Piyush	ELECTRICAL	Siddheshwar Electricals, Satara
14	Bhole Rohit	CSE	3 STAR IT Solutions, Satara (JIJAU IT Solutions)
15	Jagdale Akash	Mechanical	Four Square Engineering, Pune
16	Shaikh Sabar	Mechanical	CUBE Enterprise, Satara
17	Avinash Mankar	Mechanical	Solar Enterprises Satara
18	Prakalp Gogawale	Mechanical	PR Engineering, Satara
19	Vijay Ghadage	Mechanical	Ajinkyatara Automobile & Services, Satara
20	Akash Ghanwat	Mechanical	Autochoice Car Care, Satara

21	Sandip Varvate	Mechanical	Renuka Enterprises, Satara
22	Samadhan Jadhav	Mechanical	Satara Engineering Works, Satara

9.7 Co-curricular and Extra-curricular Activities (10)

Sports Facilities:

- The Institution has a separate sports ground for outdoor games like Cricket, Football, Volleyball, Kabaddi etc.
- Institute has indoor sports place for gymnasium, chess, and carom.
- Students are encouraged to participate in various zonal and inter-zonal tournaments. Students participate in inter and intra collegiate and University tournaments.
- The institution has multipurpose seminar hall which is utilized for Yoga & meditation purpose.
- Institute has contributed in **Satara Hill Marathon** Campaign. Students have volunteered in the preparation of campaign and set up the Water Stations.
- Every year Institute is organizing the "**Sawkar Trophy**" Intercollegiate Sports Event to provide platform for the students to showcase their ability, performance and professionalism. Cricket, Kabaddi, Kho-Kho, Bad Minton Competitions are organized under Sawkar Trophy.

Sports Achievements

TableNo.9.7.aYear-wisestudent's sport achievement

Academic Year 2022-23				
No	**Name of the Student**	**Level**	**Event**	**Rank**
1	Shubham dhane	University	Kho-KHo	Participant
2	Ayush Patil			
3	Shreyash Patil			
4	Pravinkumar Mahoor			
5	Akshay Galve			
6	Chaitanya Yadav			
7	Omkar Yadav			
8	Aniket Tikudave			
9	Atharv Dhane	University	Chess	Participant
10	Omkar Miraje			
11	Anniruddha Kadam			
12	Hasan Shaikh			
13	Omkar Miraje			

14	Akanksha Matkar	University	Kabaddi	Participant
15	Aishwarya Panvelkar			
16	Arati Gaikwad			
17	Sanjana Jadhav			
18	Vaishnavi Kamble			
19	Shreya Chavan			
20	Pragati Ghadge			
21	Amruta Deshmukh			
22	Avishkar Kadam			
23	Sawant Omkar	District	Badminton (Men's Single)	Runner-up
24	Surve Swaraj	University	Interzonal Wrestling	Winner

Academic Year 2021-22				
No	**Name of the Student**	**Level**	**Event**	**Rank**
1	Abhay Sanjay Chorage	Institute	Tug Of War	Participant
2	Akash Anandrao Thorat			
3	Avdhut Ashok Mane			
4	Chaitanya Siddheshwar Wagh			
5	Harshada Kishor Shinde			
6	Mandhare Pratiksha Somnath	Institute	Kabbadi	Participant
7	Dagade Kshitija Sunil			
8	Kumbhar Aadarsh Rajendra			
9	Kanase Abhishek Bapuso			
10	Patil Akshada Ashok			
11	Katkar Akshali Dilip			
12	Malusare Ankita Jagannath			
13	Shirke Atharva Chandrakant			
14	Surve swaraj	State	Wrestling	Participant
Academic Year 2020-21				
No	**Name of the Student**	**Level**	**Event**	**Rank**
1	Jadhav Ayush Dattray	Institute	Chessmania2K21	Participant
2	Attar Mustan Nisar			
3	Gaikwad Rushikesh Dilip			
4	Pustake Utkarsh			
5	Jaddhav Abhishek			
6	Shinde Kavita Mohan			

Academic Year 2019-20				
No	**Name of the Student**	**Level**	**Event**	**Rank**
1	Swaraj Surve	Intercollegiate	Wrestling -57kg (By KBPCOE, Satara)	Runner Up
2	Omkar Mahadik	University	Kabaddi (By DBATU, Lonere)	Participant
3	Shinde Akshay			
4	Mali Kishor			
5	Bhoite Aryan			
6	Shirke Sani			
7	Gaikwad Sushant			
8	Sutar Pratik			
9	Kalkundrikar Rahul			
10	Pawar Rushikesh	University	KHO-KHO (By DBATU, Lonere)	Participant
11	Pawar Mahesh			

No	**Name of the Student**	**Level**	**Event**	**Rank**
12	Pawar vaibhav	University	KHO-KHO (By DBATU, Lonere)	Participant
13	Chavan Prathmesh			
14	Anande Mahesh			
15	Korade Shubham			
16	Sawant Sachin			
17	Mulik Akash			
18	Nagargoje Krishna			
19	Kadam Vaibhav			
20	Jadhav Atul			
21	Khatte Avishkar			
22	Waghmode Rohit			
23	Mulla Altaf			
24	Chavan Namrata	University	KHO-KHO (By DBATU, Lonere)	3rd Prize
25	Gurav Kanchan			
26	Sawant Shital			
27	Dalvi Pranita			
28	Katkar Arati			
29	Vedpathak Poonam			
30	Ingawale pratiksha			
31	Yadav Priyanka			
32	Shinde Rutuja			
33	Sakunde Neha			
34	Shingate Mayuri			
35	Chavan Sakshi	University	Kabaddi	Winner

36	Patil Snehal	y	(By DBATU, Lonere)	
37	Patil Karishma			
38	Chavan pooja			
39	More Shubhangi			
40	Pawale Hrituja			
41	Velapure Divya			
42	Daphale Sayali			
43	Bhosale Priyanka			
44	Tarade Priyanka			
45	Abhishek katkar		Shot Foot (By DBATU, Lonere)	Participant
46	Jadhav Akash			
46	Katkar Abhishek		Relay 4*100 meter (By DBATU, Lonere)	Participant
47	Jadhav Omkar			
48	Mali Kishor			
49	Mahadik Omkar			

Academic Year 2018-19

No	Name of the Student	Level	Event	Rank
1	Abhishek Katkar	University	Shot Foot (By DBATU, Lonere)	Winner
			Running 100m & 200m(By DBATU, Lonere)	Participant
2	Vaibhav kadam		Running 800m & 1500m (By DBATU, Lonere)	Participant
3	Avishkar khatte		Running 2000m (By DBATU, Lonere)	4rth Winner

Fig.9.7.a: Swaraj Surve : Winner in Interzonal Wrestling Competition organized by DBATU

Fig.9.7.b: Annual Sports Event "SAWKAR TROPHY"

Contributions:

Satara Hill Half Marathon:

The SATARA HILL HALF MARATHON (SHHM) is held annually in the historic city of Satara, the erstwhile capital of the Maratha Kingdom founded by the legendary Warrior King

Shrimant Chhatrapati Shivaji Raje Bhosale.The SATARA HALF HILL MARATHON is a proud member of the AIMS [Association of International Marathons and Distance Races] SHHM holds the Guinness World Record for the 'Most People in a Single Mountain Run'. Usually held in the month of September, the event attracts runners from all over India & running enthusiasts from all around the world.

TableNo.9.7.b: SATARA HILL MARATHON ACTIVITIES

No.	Name of the Event	Date	Contribution
1	SHM 2019 (Satara Hill Half Marathon 2019)	25/08/2019	Volunteers, Water Stations
2	SHM 2018 (Satara Hill Half Marathon 2018)	02/09/2018	Volunteers, Water Stations
3	SHM 2022(Satara Hill Half Marathon 2022)	18/09/2022	Volunteers, Food Stations
4	MAS Marathon 2022	02/10/2022	Volunteers, Food Stations

Fig.9.7.c : SHM 2019 Water Station Activity for Runners

Fig.9.7.d : MAS Marathon Activity 2022

Cultural Facilities:

- Institute has dedicated cultural Club to facilitate various cultural Activities like Vaccination camp , Independence & Republican Day Celebration, Blood Donation Camp, Shiv jayanti Celebration. To carry out above cultural activities separate space is provided in the Institute.
- Institute organizes Annual Social Gathering "**Tarunai**" every year.
- Students participates in various extra-curricular activities like Rangoli, along with celebration of various days like Rose Day, Chocolate Day, traditional day, Mismatch Day, Sari and Tie Blazer, Hollywood/Bollywood day etc.
- Variety entertainment programs including classical & western dance performances ,singing &mimicry, fashion show etc. are organized in the institute for all the students.
- In this regard, institution has formed various committees for participating and organizing the cultural and sports activities. Every department has its own

association through which various department symposiums, project presentation and other technical and non-technical events are being conducted.

- These association activities benefit in developing leadership skills and make them work in teams.

TableNo.9.7.c: Cultural Event participant data

Sr. No.	Academic Year	Details Of Cultural Event	Number Of Students Participated
1	2022-23	Shiv jayanti Celebration	350
2		Western day &Mis Match day (05/05/2023)	522
3		Tie Blazer, Saree& Rose Day (06/04/2023)	650
4		School Dress & Food stall (07/04/2023)_	467
5	2021-22	Shiv Swarajya Din(6/6/2022)	620
6		Tarunai 2022 (4/05/2022)	367
7		Holi Celebration(22/03/2022)	268
8		Shivjayanti Celebration (19/02/2022)	552
9		Savitribai Phule Jayanti (3/01/2022)	254
10	2020-21	Shivjayanti Celebration (19/2/2021)	272
11		Marathi Rajyabhasha Divas (27/2/2021)	70
12		Women's Day and self defense Session(8/3/2021)	103
13		Traditional day(19/2/2021)	182
14		Sadi & Tie Blazer day(20/2/2021)	147
15		Hollywood / Bollywood day(21/02/2021)	146
16		Chocolate Day(23/02/2021)	160
17	2019-20	Independence Day Celebration(15/08/2019)	359
18		Dandia Cultural Event Celebration(4/10/2019)	575
19		Technical Rangoli Competition(25/01/2020)	144
20		Western Day ,Funky Day and Twins Day(14/02/2020)	233

21		Sadi Say and Tie blazer Day(15/02/2020)	280
22		Bollywood, Hollywood, Tollywood ,Mismatch Day(16/02/2020)	275
23		Scool Dress Day and Department Day(17/02/2020)	245
24		Shivjayanti Celebration(19/2/2020)	629
25		Traditional Day(19/02/2020)	168
26		Annual Day- (Tarunai-2020)	731
27		**"NIRBHAYA"** Walkathon by Nirbhaya Police Pathak (17/02/2020)	80

Fig.9.7.e:Annual Cultural Event "TARUNAI"

Fig.9.7.f: Shivjayanti Celebration

National Service Scheme(NSS):

As per the guidelines of DBATU Lonere, the Institute has for meda NSS unit of students and staff. The NSS unit in the college provides a platform for various socially relevant services such as:

- Providing guidance to students studying in the rural areas
- Creating awareness about the natural disasters such as flood, earthquakes in the student community
- Arranging and Participating in Swatchhata Awareness Ralley and Swatchhata Camps in Villages.
- Organizing Camps in Villages for delivering services to society and creating social awareness among students
- Spreading awareness about traffic rules and safety measures among staff members and students
- Having discussions regarding the various challenges faced by the youth.

The NSS wing of the college encourages the students in community development activities which motivate the students for Social Service. The college NSS team regularly visits surrounding areas and villages where people are made aware about various social, moral and ethical issues.

NSSActivities

TableNo.9.7.d:Year-wiselist of NSS activities

Sr.No	Academic Year	Date	Event Name
1	2018-19	14/1/2019 To 19/1/2019	NSS Camp At Bhaleghar, Sanpane, Satara
2		21/07/2018	Tree Plantation
3		02/10/2018	“Swatchhata Awareness Ralley”
4		25/01/2019	“National Voters’ Day”
5		06/02/2019	Road Safety Guest Lecture
6		22/02/2019	“Swatchhata Camp”
7		23/02/2019	Blood Donation Camp
8	2019-20	22/07/2019	“Jal Divas” Celebration
9		12/08/2019	Activity for helping People of flood Affected Areas
10		2/10/2019	“Swatchata Hi Seva” Activity
11		17/01/2020	“Road Safety Week” (Session for Guidance on Road Safety and Rules by Mrs. Afreen Mulani (RTO Officer Satara)
12		26/01/2020	Participated and Guided regarding the “**UNNAT BHARAT ABHIYAN**” in GRAMSABHAs of 5 Villages (Panchwad , Kudal, Panmalewadi, Varye , Bhuinj)
13		2/2/2020 To 8/2/2020	NSS Camp at Anewadi, Satara
14	2020-21	15/08/2020	Arscenic Album Distribution Activity
15		21/03/2021	Tree Plantation
16	2021-22	4/03/2022	Food Donation at Villages
17		4/03/2022	Swatchhata Abhiyan
18			Health Checkup Camp
19		5/3/2022	Blood Donation Camp
20			Tree plantation
21		6/03/2022	Dustbin Donation Activity
22		20/06/2022	No Vehicle Day
23	2022-23	15/08/2022	Independence Day
24		14/11/2022	Children Day
25		8/12/2022	Lek Ladki Abhiyan
26		12/01/2023	Jijaujyanti, Swami Vivekananda Jayanti
27		26/01/2023	Republic Day
28		19/02/2023	Shivjayanti
29		23/02/2023	Blood Donation
30		08/03/2023	Women’s Day

Fig.9.7.g: NSS Camp at Jalgaon Tal. Koregaon, Dist. Satara (2023)

Fig.9.7.h:Swatchhata Activity during NSS CAMP at Bhaleghar, Sanpane, Satara

Fig.9.7.i: NSS CAMP at Bhaleghar, Sanpane, Satara

Fig.9.7.j: Arsenic Album Tablets Distribution

Unnat Bharat Abhiyan (Contribution in Rural Development)

Unnat Bharat Abhiyan (UBA) is a flagship programme of Ministry of Human Resource Development (MHRD), Govt. of India. The Institute is participating in Unnat Bharat Abhiyanand adopted villages for their development in collaboration with district administration. Institute has adopted following villages:

1. Panmalewadi 2.Varye 3.Bhuinj 4.Panchwad 5.Bamnoli T. Kudal

Fig. 9.7.k: Unnat Bharat Abhiyan Fig. 9.7.l: Guidance in Gram Sabhas under UBA

Co-curricular Activities:

Students are motivated to participate in National level Competitions related to Project Presentation, Paper/Poster Presentation, Debate, Idea Presentation. Every year students are encouraged and guided to participate **Smart India Hackathone**, **AVISHKAR , DiPEX.** Because of such initiatives a competitive spirit and passion towards innovations are developed among the students.

TableNo.9.7.e Project and other national level Competition participant data

Sr. No.	Academic Year	Name of the Competition	Number of students participated
1	2022-23	KJSIT-IET-INTECH-2K23 Poster cum Project Competition	15
2		ROTRAX 2023	02
3		DIGIT-2K23	02
4		Yasho-Tech- Fest- 2023	06
5		Tech-Fest 2k23 By Kisanveer College, Wai	01
6		PHN Advanced Technology Online Workshop on Android Development	04
7		TECHNOVATION-2023	03
8		Java Training by Besant Technology	02
9		Brain-it-On 1.0	03

10		DCODE 2k23	01
11		Technical Project Competition	12
12		Kurukshetra 2K23	02
13		MATPO Aptitude Idol-2023	35
14		AVISHKAR 2022	12

Sr. No.	AcademicYear	Name of the Competition	Number Of Students Participated
15	2021-22	National Level Project Competition (by KJ Somaiya Institute of Engineering and Information Technology Sion, Mumbai)16/04/2022	04
16		National Level Project Competition (by Bharati Vidypeeth College of Engineering Pune)21/05/2022	01
17		National Level Project Competition (by Yashodha Technical Campus Satara 9/05/2022)	05
18		Internal Hackthon of Smart India Hackthon 2022) 28/04/2022	06
19		Smart India Hackthon Finale at Bhilai Institute of Tech, Durg, Chhattisgarh. (26/08/2022)	06
20		Impact Lecture Session under **KAPILA** on Intellectual property , literacy and awareness campaign (24/6/2022)	05
21		Impact Lecture Session on Intellectual Property Rights and Startups (29/6/2022)	06
22		Impact Lecture Sessions sponsored by MoE's Innovation Cell, AICTE on Inception of a Startup. (28/7/2022)	05
23		TEQIP III Sponsored Two Days Online FDP on "Medical Imaging: Special Topics in Magnetic Resonance Imaging " (24/9/2021)	04
24	2020-21	Five Days online FDP on "Recent Advances in Health 5.0 In-line with NEP 2020" (22/3/2021)	04
25		DiPEX (Project Presentation By Tantra shikshan Vidyarthi Karya, Kolapur Division and Dipex) 20-23/05/2021	03
26	2019-20	AVISHKAR 2019-2020 Zonal Level Competition by	04

		DBATU	
27		AVISHKAR Intercollegiate Poster Presentation Competition	80
28		PROTECH 2020 at Symbiosis International University, Pune	02

Fig.9.7.m: SMART INDIA HACKTHON at Bhilai Institute of Technology Durg

Fig.9.7.n: ROTAREX 2023 (Project Exhibition & Competition) at Satara

Fig.9.7.o: MATPO Aptitude Idol Participation

Student Chapter Formed:

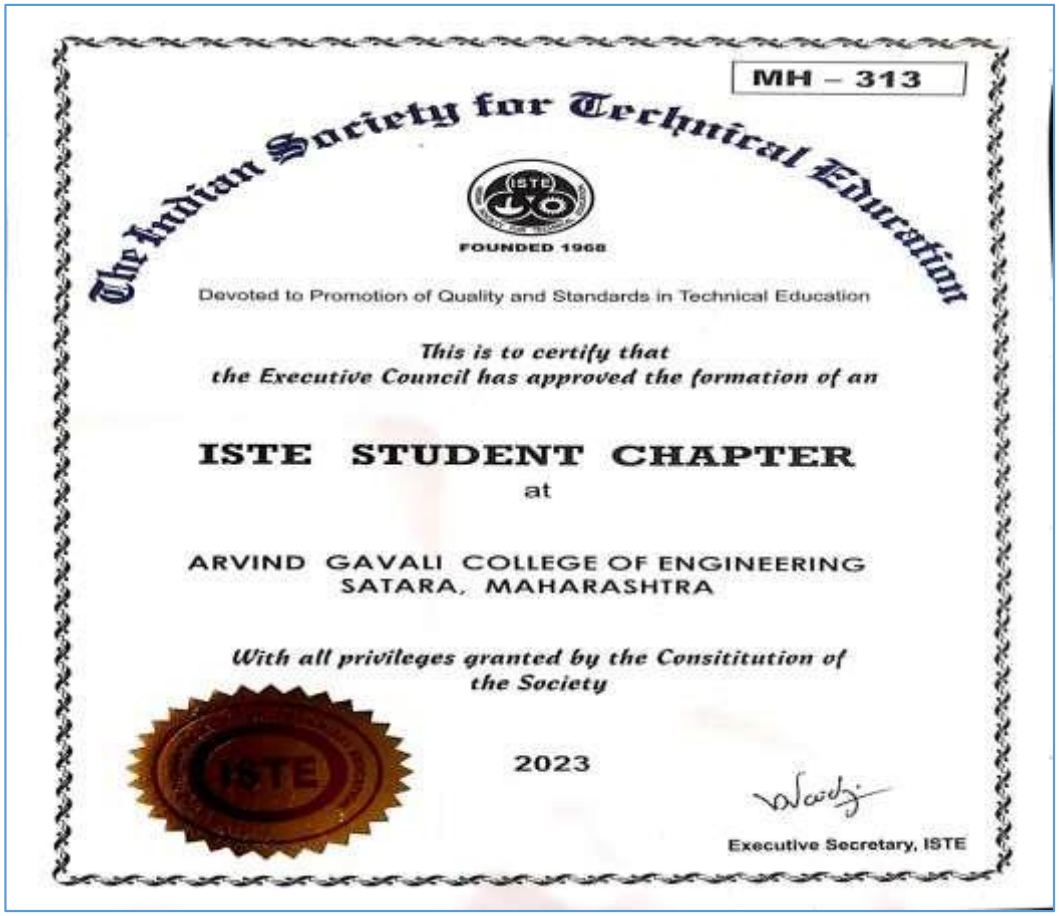
Indian Geotechnical Society:

Student Chapter is formed under Indian Geotechnical Society(I.G.S.), Pune by Department of Civil Engineering. Under the chapter, guest/expert Lectures Geotechnical Field, industrial visits, workshops are supposed to be conducted. This chapter helps students to explore different aspects of geotechnical Field. This chapter promotes activities to inculcates passion towards geotechnical field and guides career opportunities in geotechnical field.

Fig.9.7.p: Inauguration of Indian Geotechnical Society-Pune Chapter

Institutional Member of Indian Society for Technical Education (ISTE):

The main goal of this membership is to provide the technical opportunity for students to broaden their knowledge of engineering and to interact with eminent faculties of the organization. An Institutional membership can allow students to cultivate their interest in engineering. It can introduce students to possibility of future study or employment in engineering.



9.7.q: ISTE student Chapter Formed

International Society for Research and Development, London Students chapter

The kinds of activities a student chapter can undertake are endless, depending on the creativity and interest of each group. But here are a few examples of academic, social, and professional activities that may be of interest to your group. Distinguished Speakers Program/ Lectures, posters, make a Website, Communication Workshop etc.

Manufacturers Association of Satara

The Institute has opted for MAS Membership in order to bridge the gap between institute and Industry. MAS have been playing a significant role in accelerating the industrial development of Satara region for more than three decades now. The major activity of MAS is arranging seminars & workshops for Students and members. Arrange & facilitate expert consultation to members. Try to promote industry friendly atmosphere in Satara region.

Photography Club:

Institute had formed Photography Club to encourage the students to showcase their photography skills and view towards the things around them. The Club is arranging the Photography Competition to promote the skills of students and develop their ability to participate and compete others. The Photography competition was conducted 10th September 2019. Students have participated with the photos they have taken and explained their views/opinion on the same.

Fig. 9.7.r: Prize distribution of Photography & Videography Competition organized by Photography Club

IoT Club:

Institute had formed IoT (Internet of Things Club) to explore the opportunities in the Internet of Things domain. The students from all department can participate in the activities related to Internet of Things. IoT Club had arranged industrial visit to C.O.E., Pune's BHAU Institute. During visit hours students were guided regarding the IoT, A.I., M.L. by Mr. Nikhil Bhaskaran, and Ms. Sejal Gupta. Also IoT club guides and helps students regarding internet of Things projects.

9.7.s : Visit to BHAU institute At C.O.E. Pune.

Robotics and Automation Club: This club is formed to inculcate passion towards the Automation, Robot Making, PCB Designing among the students The objective of this club is to aware the students about future of Industrial Automation by Robotics. Under this club workshop is conducted to help students gain knowledge related to industrial automation. In this workshop students are learnt to operate and Program the Kuka Robots, PLC Programming.

9.7.t : Training Program offered in association with .

Cloud Computing Club: The major objective of our group is to raise technical awareness of cloud and devops on our campus. We are an interdisciplinary cloud club, so rather than concentrating on just one cloud provider like AWS or GCP, we will cover a wide range of providers including IBM, Alibaba, and many more. Instead of offering more theoretical lectures, we will concentrate on bringing practical events. We make an effort to give our trainees practical, industrial experience.

Competitive Exam Club:

This club helps students to get all information regarding the competitive examinations such as U.P.S.C., M.P.S.C., RRB, I.B.P.S., M.S.E.B.. Guest lecturers from Experts are conducted to guide the students regarding the preparation and prerequisites of the examinations.

Special Batch:

This club is formed to encourage the students to prepare and pursue career in Arm Forces (Army, Navy, Air Force). Motivational sessions are conducted to bring patriotism among the students. Students are guided about various exams like Technical Graduate Entry, University Entrance Scheme, Short Service Commission. Students are trained for these examinations under the guidance of Dr. S.P. Lavand (Ex. Navy Officer).

Fig.9.7.u : Students visited 22MAH BN NCC Camp at Mahagaon, Satara

Electro Club:

This club is formed to inculcate passion towards the Automation, Robot Making, PCB Designing among the students. This club arranges the sessions to guide the students to develop skills required for Industrial Automation, Robot making. This club arranges the

training and competitions for providing the platform to showcase their skills and hard work.

Foreign Language Club:

Institute has taken initiative for promoting students to understand the importance of foreign languages and opportunities after learning them. Institute has started the German Language Training program for students. Here students are guided regarding the learning curve of the languages by organizing training sessions, guest lectures.

3D Printing Club:

The objective of this club is to aware students about 3D printing. This club is taking initiatives to help students understand how the designer's role has evolved over time and how it is likely to change as we move toward mass customization. Activities under 3D Printing club aware students to use the principles of Design and Identify opportunities to apply 3D printing technology for time and cost savings

9.7.v : Demonstration of 3D model creation

Lek Ladki Abhiyan:

The Institute is proud to be associated with LEK LADKI ABHIYAN - A NGO working for development of Women. The "LEK LADKI ABHIYAN" under the leadership of Advocate Varsha Deshpande is organizing the events to develop awareness among the women. Institute is participating in all the program organized under LEK LADKI ABHIYAN such as LAGHUPAT MAHOTSAV.

9.7. : Participation in LAGHUPAT MAHOTSAV related to Woman Awareness

Table No.9.7.f: List of activities conducted

Sr. No.	Academic Year	Activities	Date
1	2022-23	Recent Trends and Opportunities in IT By Mr. Shivraj Gaikwad (Papportsoft Consultancy & Technology, Pune)	19/05/2023
2		IT Career in Digital Marketing by Mr. Ajinkya Pawar (AJDM India, Satara)	10/03/2023
3		Campaigning against violence about women	8/12/2023
4		Opportunities is IT Industry and Japan (Mr. Bipin Kadam, Think smart Soft, Tokyo, Japan)	03/05/2023
5		Workshop on Industrial Robotics and Automation	14/08/2023
6		Five days Hands-on Workshop on Web Designing and Development using HTML, CSS, PHP, JavaScript and MySQL	14/06/2023 to 19/06/2023
7	2021-22	Visit to NCC Camp at Mahagaon for Seminar	2/06/2022
8		Guidance on Competitive Examination by Mr. Akshay Jadhav (Infinity Academy, Pune)	6/04/2022
9		Awareness program about Girl Child.	3/01/2022
10		One day python programming workshop By Mrs. Snehal Kasurde	20/11/2021

Sr. No.	Academic Year	Activities	Date
11	2021-22	One day Network security workshop By Mr. Prashant Patil	16/12/2021
12		Hands on data analytics using Tableau workshop by Ms. Pimpalkar Shilpa	27/12/2021
13		3D Printer installation	09/7/07/2021
14	2020-21	Career in Software Testing, Prerequisites and Opportunities by Mr. Sushant Sankpal	09/05/2021
15	2019-20	Resume Building and Interview Technique workshop By Mr. N.S. Juvekar	23/03/2020
16		Guest Lecture on Introduction to Career Opportunities in System Networking by Mr.Ajit Sutar	11/09/2019

Fig.9.7.w: Master Kishor Ghadge from Mechanical got opportunity to study in Germany

Fig.9.7.x: Master Utkarsh Pustake from Mechanical got opportunity to study in Germany

CRITERION 10	**GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES**	**120**

10.1 Organization, Governance and Transparency (40)

10.1.1 State the Vision and Mission of the Institute (05)

A. Availability of the Vision & Mission statements of the Institute (02)

B. Appropriateness/Relevance of the Statements (03)

A. Vision & Mission statements of the Institute

Vision:

To be an institute of excellence, developing skilled engineers to serve the industry and society.

Mission:

Our Mission is to

- M1: To provide quality education through effective teaching learning process.
- M2: To develop professional skills and promote innovation among students by providing a conducive atmosphere.
- M3: To inculcate ethical values, respect for the environment, and social responsibility.

B. Appropriateness/Relevance of the Statements (03)

Vision:

To be an institute of excellence, developing skilled engineers to serve the industry and society.

Through excellence in key terms and strategy, the institute informs development while also articulating its purpose to stakeholders. The aims and objectives are used to measure the institute's success. Excellence in engineering education system towards greater cause of society through the implementation of projects to address societal issues and commitment to readiness of industry-oriented skill to serve in industry as a professional engineer by incorporating expert lecture series through industrial experts and internships in line with National Education Policy 2023.

Mission:

M1: To provide quality education through effective teaching learning process.

We choose to offer students a top-notch education by embracing ICT technologies and project-based learning. We have been able to develop a variety of learning experiences through industrial expertise, real-world settings, and inquiry-based learning thanks to the use of innovative teaching techniques.

M2: To develop professional skills & promote innovation among students by providing conductive atmosphere.

The institute fosters an environment where students can develop their technical and soft skills through project competitions, creative ideas for "AVISHKAR," patent filing, NPTEL registration, expert-led soft skill workshops, execution of training and placement activities, internships, etc.

M3: To inculcate ethical values, respect for environment and social responsibility.

The institute has organized a workshop on ethical values to outline ethical workplace principles such adhering to institute policies and procedures, effective communication, accepting responsibility, professionalism, mutual respect, and trust. The institute has also planned and taken part in environmental and socially conscious events, such as tree planting, cleanliness campaigns, geo-tagging, no car days, distribution of dustbins, mask and tablet donations, vaccination camps, and self-defense workshops.

10.1.2 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

A. List the Governing Body Composition, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; participation details of external members and attendance therein (4)

B. The published service rules, policies and procedures with year of publication (3)

C. Minutes of the meetings and action-taken reports (3)

A. Administrative bodies

Governance of the institution is reflective and in tune with the vision and mission of the institute. The decentralisation of authorities and responsibilities is carried out through different committees which will be ensured by committee members of various committees under the governing body.

ROLE OF GOVERNING BODY

The Board of Governors is the governing body for the institution, collectively responsible for framing the policies, implementing the institution's activities, determining its future direction, fostering an environment in which the institutional mission is achieved according the developmental plan.

PRIMARY ACCOUNTABILITIES

- To approve the mission and strategic vision of the institution.
- To ensure the establishment and monitoring of proper effective and efficient systems of control and accountability.
- Monitor Institutional performance and quality assurance arrangements.
- To put in suitable arrangements for monitoring the Head of the institution's performance.

Governing Body of Institute

Table 10.1.2a Members of Governing Body of Institute

Sr. No	Name of the person	Designation
1	Mr. Gavali Nishant Arvind Hon. Secretory, Samarth Educational Trust, Satara	Chairman
2	Shri. Gavali Arvind Kondiram Hon. Chairman, Samarth Educational Trust, Satara	Secretary
3	Shri Shanbhag Ramesh Shamrao Member of Trustee, Samarth Educational Trust, Satara	Member
4	Dr. Sou. Shete MahanandaVishveshwar Member of Trustee, Samarth Educational Trust, Satara	Member
5	Mr. Gavali Dilip Kondiram Member of Trustee, Samarth Educational Trust, Satara	Member
6	Mr. Ramesh Unnikrishnan AICTE Western Regional Officer, Mumbai	Member
7	Dr. Nandanwar D.R. Joint Director,DTERO,Pune	Member
8	Mr. Narkar K.M. D.Y. Patil Engineering College Kasaba Bavada, Kolhapur	Member
9	Dr. Chitlange M.R. Joint Secretory, MSBTE RO, Pune	Member
10	Mr. Mali Milindkumar S. Associate Professor Singhad College of Engineering,Pune	Member
11	Mr.Waikar Omkar Supreme Slilconesans Trinity Enterprises Pune	Member
12	Mr. Bidwai Shailesh P. Chairman S.P. Packaging LTD	Member
13	Mr. Godbole Ashutosh Charted Accounted	Member
14	Col Mr. Kanase Pramod A. Ex. Serviceman & Professor	Member
15	Prof. Hingmire Vishal Sharad Assistant Professor Arvind Gavali College of Engineering, Satar	Member
16	Mr. Pathak Pranav Avinash Assistant Professor Arvind Gavali College of Engineering, Satara	Member
17	Dr. Pharande Vilas Arjun Principal, Arvind Gavali College of Engineering, Satara	Member

Role and Functions of Governing Body

Good governance of the technical institution plays an important role in the growth and development of the Institution. Governing body acts professionally and approves the ultimate goal of the Institution. The governing body is unambiguously and collectively responsible for overseeing the institution's activities, determining its future direction and fostering an environment in which the institutional mission is achieved. The body meets twice a year and proceedings of the meetings should be maintained properly. The college is governed by the Governing body, which is constituted as per AICTE and trust norms. A governing body should perform all four types of functions, i.e. managerial, administrative, academic and financial. A governing body should perform the following functions in each category:

A) Managerial:

- **Provide Vision:** Governing body should initiate the process of crafting the vision statement and preparing vision documents of the institution.
- **Inculcate Values:** Governing body encourages the establishment of a value system to achieve vision, missions, and goals of the Institution.
- **Act as a buffer:** Governing body serves as a bridge and buffer between the institution and stakeholders.
- **Support the head of the Institution:** Governing body should support the head of the Institution to carry out the business of the Institution. There should be a good relationship between the head of the Institution and the governing body.
- **Oversee the functioning of the Institution:** Governing body should monitor and evaluate the Performance of the Institution on a regular basis against set goals.

B) Administrative:

- **Approval:** Governing body should approve annual reports of the Institute.
- **Approval of Policies:** Governing body should approve a recruitment policy. It should approve and review procedures for the selection, recruitment and transfer of faculty and staff members. It should approve service conditions, emoluments and travelling allowances for teaching and non-teaching staff of the Institute. It should approve the policy of appointing a consultant, visiting faculty, experts and other people based on need.

Evaluate the performance of head of the institution: Select, support and evaluate the performance of head of the Institution. The governing body manages the institution and its performance through the head of the institution. The head of the Institution should possess abilities to manage the institution according to the wish of the governing body.

C) Academic:

- **Approval:** Governing body should approve the new program of studies leading to a diploma, post-diploma, undergraduate, postgraduate and Ph.D.
- **Utilization of academic resources:** Governing body should ensure full use of the academic potential of the institution in various academic activities.

D) Financial:

- **Approval:** Governing body should approve the annual budget & expenditure.
- **Audit:** Governing body should appoint a qualified auditor every year to conduct the audit. Consider the issues raised by the auditors for improvement in finance utilization.
- **Financial health:** Governing body should ensure the good financial position of the institution through proper planning and utilization of funds.

C. College Development Committee of the Institute (formerly known as Local Managing **Committee)**

Table 10.1.2b Members of College Development Committee of Institute

Sr. No	Name of the person	Designation
1	Mr. Gavali Nishant Arvind	Chairman
2	Mr. Hingmire Vishal Sharad	Member
3	Mr. Patil Suhas Prakashrao	Member
4	Dr. Nayak Meghya Banoth	Member
5	Dr. Thombare Vijay Ramchandra	Member
6	Adv. Ayachit Arundhati Sanman	Member
7	Sou. Mandhare Rajani Mahendra	Member
8	Sou. Kamble Rupali Ravi	Member
9	Mr. Kanase Nitin Uttam	Member
10	Mr. Patwardhan Amey Dipak	Member
11	Dr. Pharande Vilas Arjun	Secretary

Role and Functions of College Development Committee

As per the Maharashtra University Act, separate Local Managing Committee is constituted for the day to day functioning of the college. This committee should meet two times a year and proceedings of the meetings are maintained properly. Members elected or nominated shall have a term of five years. The committee comprises of the Chairman of the management, Secretary of the management, three local members nominated by the management, three teachers elected by the institution, one non-teaching employee and

Principal- Member Secretary.

The frequency of meeting: Twice in a year

The duties of the local managing committee are:

- Prepare the budget and forward it to the governing body.
- Determine the program of instruction and internal evaluation and to discuss the progress of studies in the college.
- Monitor the academic function of the college and extracurricular and co-curricular activities.
- Make recommendations to the management for the improvement of the standard of teaching in the college.
- Formulate proposals of new expenditure not provided for in the college budget if any.

Internal Quality Assurance Cell (IQAC)

To ensure quality in the teaching-learning process and maintain academic up gradation IQAC is formed. IQAC works towards the realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions.

Table 10.1.2c Members of Internal Quality Assurance Cell (IQAC)

Sr. No.	Name	Designation	Organization
1	Dr. Vilas Pharande	Chairman	Principal, AGCE, Satara
2	Mr. Vishal Hingmire	Coordinator	Assistant Professor, AGCE,
3	Mr. Nitin Kanse	Member	Registrar, AGCE, Satara

4	Mr. Chetan Nalawade	Member	MD, Shuddha Milk and Milk Products, Satara
5	Mr. Samadhan Jadhav	Member	MD, Satara Engineering Work, Satara
6	Mrs. Shakuntala Pawar	Member	HR Head, Mutha Foundry,
7	Mr. Omkar Waikar	Member	CEO, Supreme Silicones & Trinity Enterprises, Pune
8	Mr. Abhay Khanaure	Member	MD, Meretech, Pune
9	Mr. Sushant Gaikwad	Member	Social worker & Coordinator at Mhada, Pani Foundation
10	Mr. Rohit Bhole	Member	MD, 3 Star IT Solution, Satara
11	Mr. Abhay Gujar	Member	Assistant Professor, AGCE,
12	Mr. Suhas Patil	Member	Assistant Professor, AGCE,
13	Mr. Somesh N.S.R	Member	Assistant Professor, AGCE,
14	Ms. Ashwini Kasture	Member	Assistant Professor, AGCE,
15	Ms. Shital Ghate	Member	Assistant Professor, AGCE,
16	Mrs. Rajani Mandhare	Member	Assistant Professor, AGCE,

Role and Functions of Internal Quality Assurance Cell

- Development and application of quality benchmarks/parameters for the various academic and administrative activities of the Colleges.
- Facilitating the creation of a learner-centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
- Dissemination of information on the various quality parameters of higher education.
- Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
- Documentation of the various programmes/activities of the College, leading to quality improvement Acting as a nodal agency of the college for coordinating quality-related activities, including adoption and dissemination of good practices.
- Development of the Annual Quality Assurance Report (AQAR) of the College based on the

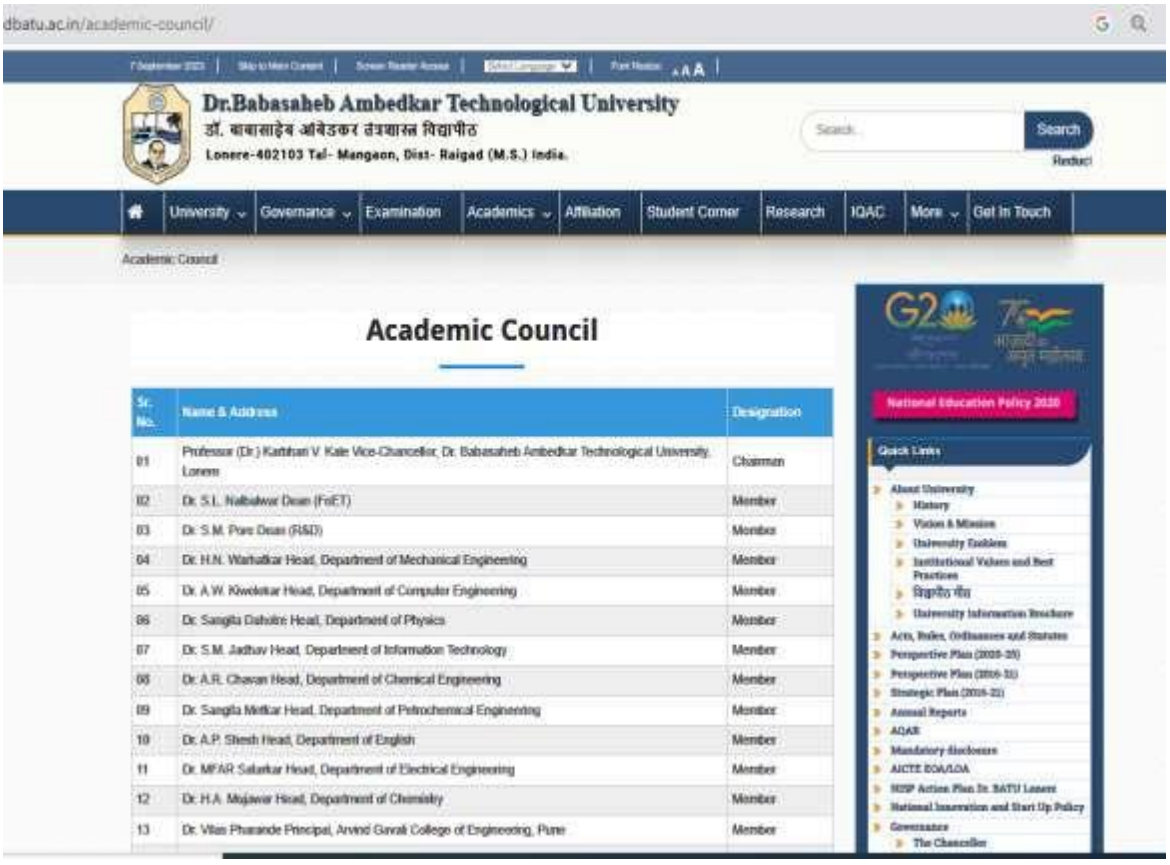
  quality parameters/assessment criteria developed by the relevant quality assurance body (like NAAC, NBA, AB) in the prescribed format.

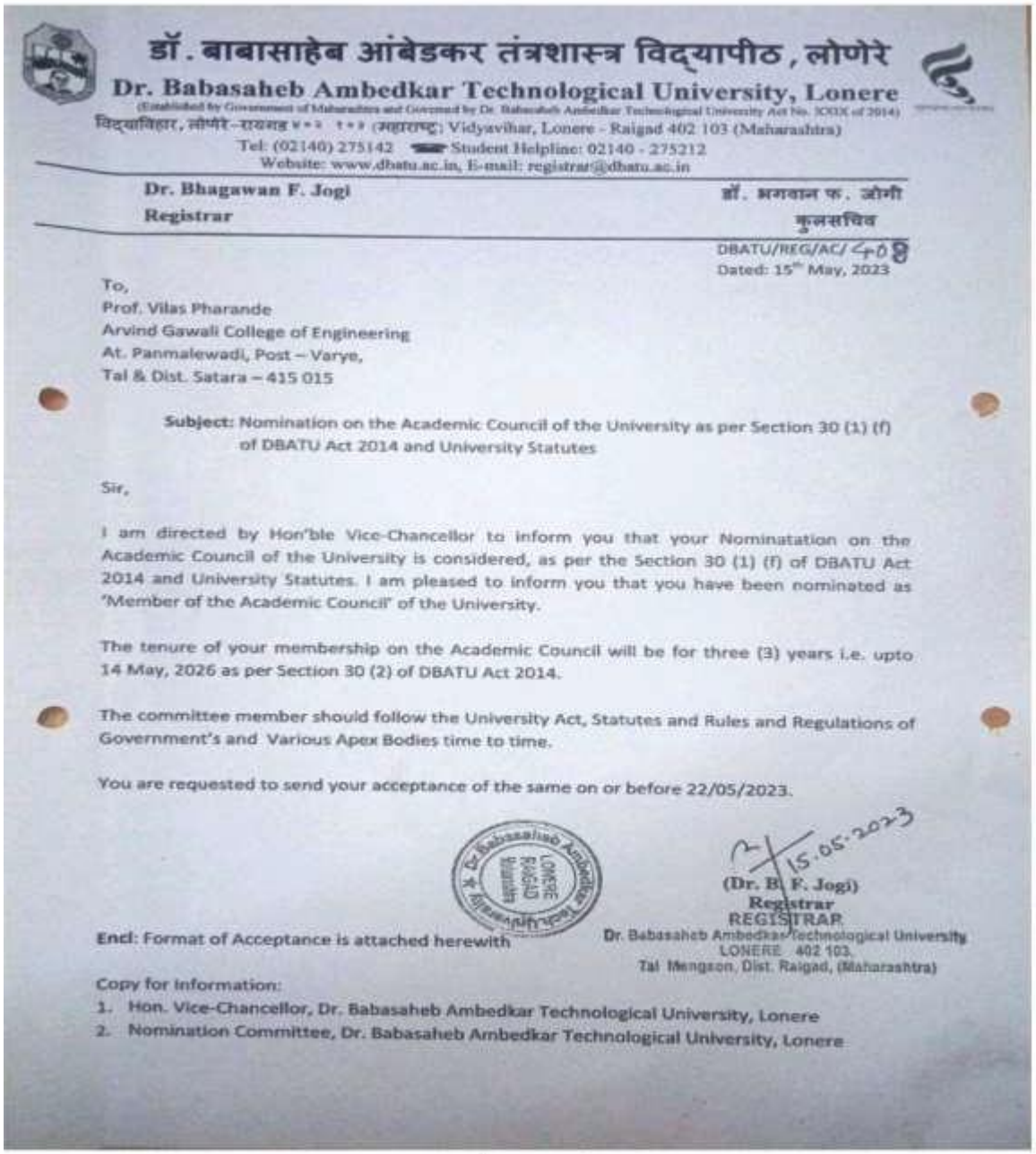
Above administrative bodies meetings are conducted minimum two times in year. Minutes of meetings are maintained in respective registers.

Table 10.1.2d Frequency of Administrative bodies meetings

Name of Committee	Frequency of Meeting	2018-19		2019-20		2020-21	
		Date of Meeting	No of Present Members	Date of Meeting	No of Present Members	Date of Meeting	No of Present Members
Governing Body	2	2/06/2018	11	15/08/2019	10	15/06/2020	11
		26/01/2019	10	26/01/2020	10	15/06/2021	11
College Development Committee	2	2/06/2018	07	14/06/2019	07	17/05/2021	11
		2/01/2019	07	16/05/2020	11	NA	NA
Internal Quality Assurance Cell	2	11/09/2018	10	26/01/2020	14	15/06/2020	14
		15/11/2019	16	NA	NA	23/02/2021	15

Name of Committee	Frequency of Meeting	2021-22		2022-23	
		Date of Meeting	No of Present Members	Date of Meeting	No of Present Members
Governing Body	2	15/06/2021	11	13/08/2022	12
		11/03/2022	12	04/03/2023	10
College Development Committee	2	17/05/2021	14	12/06/2023	10
		NA	NA	17/08/2023	10
Internal Quality Assurance Cell	2	14/06/2021	14	12/08/2022	14
		03/03/2022	13	03/03/2023	14





डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ, लोणेरे
Dr. Babasaheb Ambedkar Technological University, Lonere
(Established by Government of Maharashtra and Governed by Dr. Babasaheb Ambedkar Technological University Act No. XXIX of 2014)
विद्याविहार, लोणेरे-रायगड ४०२ १०३ (महाराष्ट्र) Vidyavihar, Lonere - Raigad 402 103 (Maharashtra)
Tel: (02140) 275142 Student Helpline: 02140 - 275212
Website: www.dbatu.ac.in, E-mail: registrar@dbatu.ac.in

Dr. Bhagawan F. Jogi
Registrar

डॉ. भगवान फ. जोगी
कुलसचिव

DBATU/REG/AC/408
Dated: 15th May, 2023

To,
Prof. Vilas Pharande
Arvind Gawali College of Engineering
At. Panmalewadi, Post – Varye,
Tal & Dist. Satara – 415 015

Subject: Nomination on the Academic Council of the University as per Section 30 (1) (f) of DBATU Act 2014 and University Statutes

Sir,

I am directed by Hon'ble Vice-Chancellor to inform you that your Nominatation on the Academic Council of the University is considered, as per the Section 30 (1) (f) of DBATU Act 2014 and University Statutes. I am pleased to inform you that you have been nominated as 'Member of the Academic Council' of the University.

The tenure of your membership on the Academic Council will be for three (3) years i.e. upto 14 May, 2026 as per Section 30 (2) of DBATU Act 2014.

The committee member should follow the University Act, Statutes and Rules and Regulations of Government's and Various Apex Bodies time to time.

You are requested to send your acceptance of the same on or before 22/05/2023.

15.05.2023
(Dr. B. F. Jogi)
Registrar
REGISTRAR
Dr. Babasaheb Ambedkar Technological University
LONERE 402 103.
Tal. Mangaon, Dist. Raigad, (Maharashtra)

Encl: Format of Acceptance is attached herewith

Copy for Information:
1. Hon. Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere
2. Nomination Committee, Dr. Babasaheb Ambedkar Technological University, Lonere

10.1.2e Principal Dr. Vilas Pharande is DBATU University Academic Council member

Dr. Babasaheb Ambedkar Technological University Lonere, Raigad
State Technical University, Maharashtra Act No. XXIX of 2014
डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ लोणेरे, रायगड
Avishkar 2019

Award of Appreciation

PROF. ARJUN KADAM

Dear Sir/Madam, we appreciate your valuable contribution as a Zonal Coordinator for Avishkar 2019.

Team Avishkar
Dr. BATU Lonere

Sanjay Khobragade
Coordinator

10.1.2 f Staff member Mr. Arjun Kadam is university level Avishkar event coordinator

Administrative Setup

The key components of the organizational structure of the Institute are Secretary, Principal, HODs, Teaching, and Nonteaching staff. Various committees with well-defined functions give academic and administrative leadership to the Institution. Organizational Structure of institute depicted in figure below.

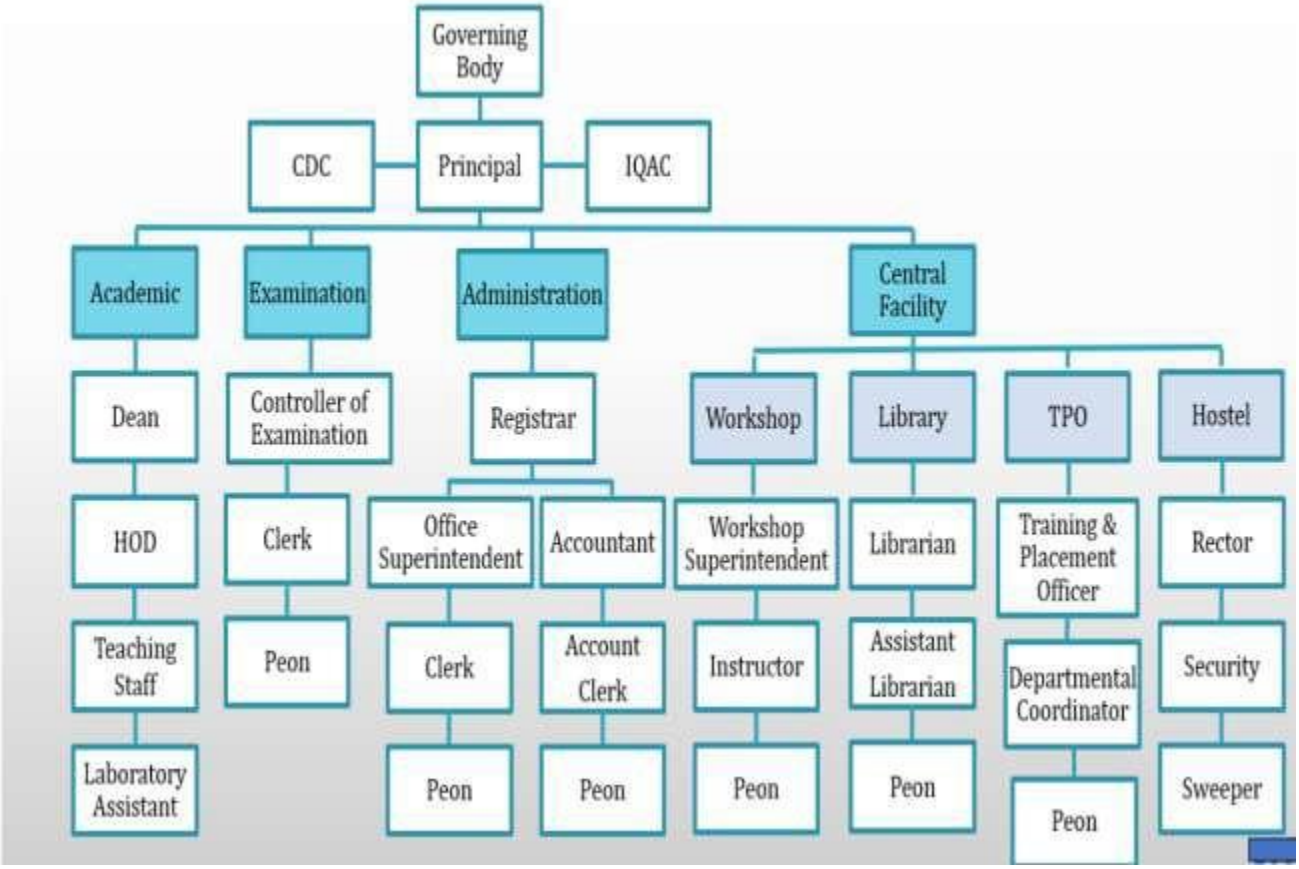


Fig 10.1.2g Organizational Structure

Duties & Responsibilities:

Each employee in the institute has some responsibilities and the employeeshould carry all the tasks assigned to him with the full of his ability.

1) **Principal:** As the head of the institute, the Principal should have the vision and leadership ability to keep a college developing.

- ✓ To monitor and conduct academic activities of the institute under the guidance of the management and assistance of the Deans and Head of Departments.
- ✓ To promote industry institution interaction and research & development activity.
- ✓ To conduct the periodical meetings of the faculties for the effective administration of thecollege.
- ✓ To make the employee and students aware of the rules, policies, and procedures laid downby the college and see to it that they are enforced.
- ✓ To sanction the leave of the staff as per the norms.
- ✓ To communicate with University, Directorate of Technical Education, All India Council forTechnical Education and University Grants Commission for compliance.
- ✓ Organize meetings of Governing Body and Local Managing Committees and maintain minutes of the meeting.
- ✓ To execute any other work assigned by the management.
- ✓ To monitor and promote technical and non-technical, co-curricular and extracurricular activities like seminars, workshops, cultural and sports events with the assistance of Dean & HOD.

2) Dean - Academics

- ✓ Responsible for preparing a timetable and Smooth execution of it in all departments with the help of Head of the Departments.
- ✓ To prepare the Institute academic calendar
- ✓ To maintain academic records as per the requirement under rules.
- ✓ To execute all Internal Examinations and declare their results.
- ✓ Communicating with parents and students about their academic progress and problems.
- ✓ To execute any other work assigned by the Principal and management.

3) Dean – R & D

- ✓ To formulate policy and facilitate the consultancy work in the institution.
- ✓ To encourage Industry Institute Linkages, Collaborative Research programs, and the formation of new incubation centers.
- ✓ To monitor Research projects on a periodical basis and effective utilization of grants ofresearch projects and timely completion of these projects.
- ✓ To apply for intellectual properties generated from research at college and to market these into patents in the industry.
- ✓ To execute any other work assigned by the Principal and management related to IIPC.

4) Dean-Quality Assurance

- ✓ Development of Quality Culture in the institution and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
- ✓ Development and implementation of quality benchmarks/parameters for various academic and administrative activities of the institution.
- ✓ Development of Quality Culture in the institution and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
- ✓ Conducting internal Academic as well as Administrative Audits.
- ✓ Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.
- ✓ Dissemination of information on various quality parameters of higher education.
- ✓ Organization of inter and intra institutional workshops, seminars on quality related themes.
- ✓ Documentation of the various programmes /activities leading to quality improvement and maintenance of institutional database for the purpose of maintaining /enhancing the institutional quality.
- ✓ Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC.

5) Dean Training and Placement

- ✓ To maintain complete information regarding students appearing for placement activities.
- ✓ To conduct placement activities smoothly.
- ✓ To decide and arrange for personal development programs for student.
- ✓ To update and maintain the contact details of companies interested in recruitment activities.

- ✓ To send an invitation to industry and company for campus recruitment, to notify the studentsabout the events and take necessary action.
- ✓ To take feedback from the industry about the students recruited.

6) Dean Student Activities

- ✓ Responsible for maintaining the student's discipline within college premises with respect to attendance, college uniform, smoke and the alcohol-free environment with the help of Head of Departments.
- ✓ To assist students for effective organization of extracurricular & co-curricular activities in and outside the campus.
- ✓ To keep watch on hostel and campus for ragging free environment.
- ✓ To counsel students for any issue that may arise.
- ✓ To assist the Principal in all students related issues.
- ✓ To execute any other work assigned by principal & management.

7) Controller Of Examination (COE)

- ✓ All matters concerned with the conduction of examination.
- ✓ Preparation and display of final result notification (s) and sending the grade reports to students.
- ✓ Arrangement for the timely issuance/provision of the examination material, instructing the supervisory staff and holding their meetings as and when required.
- ✓ Bringing into the notice of the Principal all cases of infringement of rules of examinations with full report for disposal.
- ✓ Maintaining over all examinations record of the students.
- ✓ Ensuring and maintaining strict secrecy of all information regarding the examinations.
- ✓ To circulate &distribute magazines, literature, etc. to faculties & management and maintain records of the same.
- ✓ To execute any other work given by management.

8) Registrar

- ✓ To provide secretarial support to the Executive Director
- ✓ To handle day-to-day office activity smoothly.
- ✓ To execute the admission process and University Examination process of students.
- ✓ To handle student grievances and taking remedial action.
- ✓ To execute any other work given by management.

9) Librarian

- ✓ To implement all library rules as defined by the management.
- ✓ Responsible for the overall functioning of the library.
- ✓ Responsible for the procurement of recommended books, daily newspapers, journals, magazines, videos, CDs, audio cassettes, e-books, online resources, etc. and renewal of books/magazines.
- ✓ To display all technical articles, literature and new arrivals.
- ✓ To circulate & distribute magazines, literature, etc. to faculties & management and maintainrecords of the same.
- ✓ To execute any other work given by management.

10) Head of the Department

- ✓ To monitor and conduct academic activities of the department under the guidance of the Dean Academics.
- ✓ To take department and faculty feedback and accordingly take the remedial actions.
- ✓ To plan and take the necessary actions for the improvement of department results and academic performance.
- ✓ To coordinate term work assessment and conduction of practical /oral examinations as laid down by DBATU
- ✓ To maintain discipline and enforce rules as laid down by the institute, in the department.
- ✓ To monitor the day-to-day activities of the department.
- ✓ To plan for the semester and academic year, in terms of activities, guest lectures, workshops,etc. for the benefit of the student and faculty.
- ✓ To conduct regular meetings with teaching and non-teaching staff as well as the Class Representatives along with Class Teacher to sort out any issue and queries related to academics.

- ✓ To execute any other work assigned by the Principal and management.
- ✓ To prepare the department requirements and budget needed.
- ✓ To oversee the purchase and deployment of any resource allotted for the department.

11) Computer Centre

- ✓ Maintain Computer Centre
- ✓ To administer and maintain servers, firewalls, routers, manageable switches UPS and batteries.
- ✓ To initiate the purchasing of equipment.
- ✓ To provide support for various software servers.
- ✓ To ensure continuous internet during assigned hours.
- ✓ To give support to the On-line exam, Seminar, Workshop, technical training program.
- ✓ To update and maintain the institute website with institute data

12) Central Workshop

- ✓ Arranges all the machines/equipment required in the workshops.
- ✓ Responsible for repair and maintenance of all the machines and equipment in the workshops.
- ✓ Makes schedule for different groups of students for practice in their respective workshops.
- ✓ Responsible for maintenance of laboratories.
- ✓ Reports to Principal/HOD regarding damage/breakdown of machines/equipment.
- ✓ Responsible for safety measures of teaching / non-teaching staff.

13) Estate office

- ✓ Must be available in the campus and be on duty for 6 days/week; discharges the duties under directions of the principal.
- ✓ Supervises, executes the works in all civil, electrical, gardening and cleaning.
- ✓ Acts as the office in-charge of the security/sanitation of the institute.
- ✓ Inspects the buildings structures, roads, etc. under his charge as often as necessary and examine their condition from safety and maintenance point of view and take/suggest necessary action.
- ✓ Prepares progress reports on on-going work and report the same to the authorities of the institute on a monthly basis.
- ✓ Ensures the successful achievement of the targets fixed for completion of each project/works

with due consideration for speed and economy of scale and/or proper maintenance of building structures, water supply channels and regular maintenance of all the electric generators and ensuring proper use of the same.

- ✓ Executes any other works assigned from time to time.

14) Accountant

- ✓ Keeps account of financial transactions such as admission fees, examination fees, hostel fees etc.
- ✓ Keeps account of all the financial transactions related to repair, maintenance, purchase etc.
- ✓ Disburses salaries for the employees of the College.
- ✓ Prepares the annual account, get if audited.
- ✓ Deals with banks and other financial institutions regarding loans etc.
- ✓ Will be responsible for filling of annual returns.

15) Office Superintendent

- ✓ To receive any letter / notice and to put his/her initials and date of receipt and to record and pass on therein instructions wherever necessary for the guidance of staff working under him.
- ✓ To exercise check and follow up of letters received from the Government of India/Chancellor/State Government/U.G.C./ AICTE/ Office of the Director of Education/Universities etc.
- ✓ To supervise the work of subordinate staff in the form of periodic check of the work carried out by the staff.
- ✓ To inspect the racks and tables of assistants/and/or senior assistants working under him and satisfy himself that no papers of files have been overlooked and that there are no odd receipts or bills lying indisposed off.
- ✓ To attend to such other work as may be given to him with the approval of the Principal/Registrar/Head of the Department.
- ✓ To supply other relevant facts and figures and also papers pertaining to previous decisions or policy.
- ✓ Any other work assigned from time to time, with the approval of the Principal/Registrar.

16) Teaching Faculty

- ✓ All the Faculty Members are expected to follow the rules and regulations of the Institution as prevalent from time to time.
- ✓ The work load of all the staff shall be fixed by the Head of Department. The work load of the teacher should not be less than average 40 hours a week, of which teaching-contact hours shall be at least as per AICTE norms.
- ✓ Faculty Members are expected to update their knowledge by attending seminars/workshops/conference, with due permission from the HOD/Principal.
- ✓ Faculty Members should attempt to publish text books, research papers in reputed International / National Journals/Conferences.
- ✓ The Faculty Member must prepare him/ herself academically to meet all the challenges and requirements in the methodology of teaching so that the input may be useful for the student community at large. Every Faculty Member is expected to extend his/her beneficial influence in building up the personality of students and he/she should associate himself/herself actively with such extra-curricular activities which he / she is interested in or assigned to him/her from time to time.

17) Lab Assistant

- ✓ To maintain the Dead Stock Register and Consumable Registers.
- ✓ To find out the requirements for consumables for the laboratory and procure the same, before the start of every term.
- ✓ To plan for the procurement of equipment for the next term well in advance as per guidelines from university, by contacting teachers who are teaching or have taught similar subjects in our college or subject experts nominated by university, by considering syllabus revision etc.
- ✓ Requisition of consumables shall be submitted to the HOD, who in turn shall verify the same and forward to the Principal for necessary action.
- ✓ To see that the infrastructure facilities in the labs are adequate so that each batch has ample opportunity to complete practical satisfactorily.
- ✓ To organize the laboratory for oral and practical examinations.
- ✓ To take corrective action for any breakage / loss etc.
- ✓ To ensure the safety and cleanliness of the laboratory and switch off all equipments after use.
- ✓ The Lab Assistants are required to assist the respective laboratory in-Charge for smooth

functioning of the laboratories.

- ✓ All the Lab Assistants are required to report matters like maintenance/repairing requirement, theft, damage etc. within the respective labs, to the HOD through faculty in charge of lab.
- ✓ Lab Assistants in coordination with Lab In-charge should display (i) List of Equipment's/software with cost (ii) List of Experiments (iii) Lab Time Table (iv) Names of Lab In-charge / Lab Assistants etc. on the laboratory Notice board.
- ✓ All laboratory in charges are responsible for maintaining the laboratory utilization record Laboratory theft/damage prevention

18) Lab Attendant

- ✓ To open all the classrooms, laboratories, and staff rooms before starting time of classes.
- ✓ To close and lock all the classrooms, laboratories, and staff rooms after working hours with due checking of lights, fans, equipment's.
- ✓ To clean classrooms, laboratories, and staff rooms on every day.
- ✓ To clean benches in classroom and laboratory, equipment's in laboratory and staff tables.
- ✓ To clean a particular classroom, laboratory, or staff room if required on urgent basis.
- ✓ To assist the laboratory assistant while performing practical if required.
- ✓ To shift the equipment in/out of the laboratory whenever required.
- ✓ To circulate required documents to staff for signatures.
- ✓ To get the documents photocopies as required by HOD office/staff.
- ✓ To make arrangements of tables, chairs during the examination/functions in the department.
- ✓ To perform examination duties during internal as well DBATU examinations.
- ✓ To attend HOD office and perform duties assigned by HOD and staff from time to time.

B. Service rules

As institute is affiliated Dr. Babasaheb Ambedkar Technological University. In pipeline with the service rules framed by university, institute have prepared **PROCESS HANDBOOK** which contains service rules, policies, and procedures for the institution are in place and documented. Since 2019, the **PROCESS HANDBOOK** is made available in the departments and is available on the institute website. They are also made known to all newly recruited staff members through a HOD Meeting/induction program. Rules and regulations are modified as and when needed. Important information is regularly informed through circulars and during staff meetings

Procedures Recruitment

Recruitment

- Recruitment is done before commencement of Academic Year, and payment will be made as per AICTE scale.
- Recommendations of the selection committee comprising of Chairman, Administrator, Principal/Designated Authority, and respective HOD will be placed before the AGCE Governing council, along with details of sanctioned posts, for final approval.
- At the time of joining all appointees should submit original certificate, equivalence certificate.
- Every member of the staff shall agree to abide by all the conditions laid down by the Institution.

Promotional policies

1. All promotions shall be considered on the basis of merit- cum –seniority basis or as decided by the management from time to time
2. The Chairman shall appoint a committee for promotion, in which he shall be the Chairman, with administrator, principal and experts in the respective area.
3. The Committee shall consider promotion of teaching staff to the next higher position on the basis of the guidelines given in this chapter and as per AICTE norms, subject to the condition that there has not been any disciplinary action taken against such candidate for promotion, for any misconduct he/she has committed during the service.
4. The staff shall be considered for promotion to the next higher level position, subject however, he/she had completed the three years of service after probation in the present position and should have obtained AICTE prescribed qualification.
5. Special preference to the faculty who is undergoing PhD and completing the course work and comprehensive viva voce for PhD and on publication of 5 International Journal papers, being in the authors area of specialization for the promotion to the post of Associate professor with Minimum of 5 yrs experience in teaching/research/ industry or (Equivalence for PhD is based on publication of 5 International Journal papers, being in the authors‟ area of specialization) and subjected to condition that, they fulfill the AICTE requirement within four years from the date of promotion.

6. Minimum of 10 years teaching/research/ Industrial experience of which at least 5 years should be at the level of Associate Professor and possessing a Ph.D. degree in the relevant discipline or Minimum of 13 years' experience in teaching and/or Research and/or Industry with PhD shall be eligible to be appointed and designated as Professor, subject to other conditions of academic performance as laid down by the AICTE.
7. No teacher other than those with a Ph.D. shall be promoted, appointed or designated as Professor
8. A teacher who wishes to be considered for promotion under Career Advancement Scheme (CAS) may submit his application with necessary documents to the principal office.
9. The following Educational background information is required in the CV for reappointment and promotion of candidates:

- ☐ Academic and other relevant employment history
- ☐ Awards and appreciation if any
- ☐ Research and/or creative works, publications journal, conference proceeding, textbook publications etc.
- ☐ Teaching accomplishments: List classes taught with results, List any textbooks, study guides, manuals, workbooks, or electronic media, produced for student or class use, mentor list.

10. Those who are promoted shall be fitted in the Scale of Pay applicable to that category.
11. All decisions on promotions shall be taken up from the month of April / October every year
12. All cases of promotions satisfying the above norms and those prescribed by the AICTE will be considered, subject to the requirement of the department and discretion of the Management.

C. Minutes of the meetings and action-taken reports

- Governing Body Minutes of Meeting and action taken 2022-23: http://103.159.152.195/moodle/mod/folder/view.php?id=10184\
- IQAC Minutes of Meeting and action taken 2022-23: http://103.159.152.195/moodle/mod/folder/view.php?id=10185
- College Development Committee and action taken 2022-23: http://103.159.152.195/moodle/mod/folder/view.php?id=10187

10.1.3 Decentralization in working and grievance redressal mechanism (10)

A. List the names of the faculty members who have been delegated powers for taking administrative decisions (1)

B. Specify the mechanism and composition of grievance redressal cell (2)

C. Action taken report as per 'B' above (7)

A. Decentralization in working:

Arvind Gavali College of Engineering, Satara follows decentralized mechanism of working. Principal is the academic head of the institute; many of the powers are delegated to the core committees for effective functioning that comprises of Deans and Head of Departments.

Table 10.1.3.a Responsibilities

Sr. No	Name	Responsibility
1	Mr. Suhas Patil	Dean Academics
2	Dr. Hingmire Vishal	Dean IQAC
3	Dr. Mirajkar Gayatri	Dean R& D
4	Dr. Avinash Khadtare	HoD Dept of Mechanical Engineering
5	Dr. Bamane Prashant Ramesh	HoD Dept of Civil Engineering
6	Dr. Nayak Meghay Banoth	HoD Dept of Electrical Engineering
7	Dr. Hingmire Vishal	HoD Dept of Electronics & Telecommunication Engineering
8	Dr. Varsha Bhosale	HoD Dept of Computer Science & Engineering
9	Mr. Tushar Shende	Training & Placement
10	Mrs. Yewale Vaishali	Librarian
11	Mr. Kamble Ankur	Director of Physical Education Coordinator NSS
12	Dr. Nayak Meghay Banoth	Coordinator Alumni Association
13	Mr. Kanase Nitin	Registrar

Involvement of each and everyone in the decision making at their respective levels is ensured through decentralization and delegation of powers. Hence there are various institutional

committees consisting of faculty and staff members. Transparency associated therein also forms an important feature of the work culture.

Students have active representation on various academic and administrative bodies and committees of the Institute.

Students are given exposure to involve themselves in administrative, co-curricular and extracurricular activities as members of the committees. They actively participate in committee meetings. The following is the list of Committees having student representation and engagement.

Institute Level Committees:

1. Academic Monitoring
2. IQAC
3. Examination Committee
4. University/AICTE/DTE Committee
5. Promotional Activity Committee
6. Training & Placement Committee
7. Alumni Committee
8. R & D and IPR
9. Infra administration & Maintenance
10. ICT Committee
11. Anti ragging Committee
12. Reservation Committee
13. Internal complaints Committee
14. Extracurricular Activities Committee
15. Grievance & Redressal
16. Library

1. Academic Monitoring

In-line with DBATU academic calendar, Institute prepared its academic calendar and also respective departments prepared its calendar. Based on the Institute's academic calendar, every department carried out their work load distribution based on their domain of expertise and prepared the respective Time table and got it approved from AMC and the Head of Institute. As per the University guidelines lectures and practical were commenced. Internal academic monitoring was carried out and necessary action taken.

Guardian faculty mentoring system is implemented in the Institute wherein 15 to 20 students are assigned to a faculty member who acts as their mentor for the entire program. Mentor

regularly interacts with the students and monitors their academic performance and attendance. Students are counselled by the mentors, class coordinator, faculty and HOD for improving their academic performance and attendance. Mentors and Class Advisors counsel the students regarding their performance and schedule additional lectures/practical. The students are given guidance for academic, career, and also on personal issues. The mentors discuss with each and every student on an individual basis and support them in all the possible ways to improve their academic performance. The mentors always keep a check on the attendance of the student, the marks/grades obtained in the internal and external examinations.

Table 10.1.3.b Academic Monitoring committee members

Sr. No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal, Arvind Gavali College of Engineering Satara
2	Mr. Ghadage Suraj	Coordinator	Assistant Professor, Mechanical Engineering
3	Dr. Nayak Meghya Banoth	Coordinator	Assistant Professor, Electrical Engineering
4	Mrs. Kasture Ashwini	Coordinator	HOD, Core Science Engineering
5	Mr. Somesha N.S.R	Member	Assistant Professor, Electrical Engineering
6	Mrs. Ghate shital	Member	Assistant Professor, Civil Engineering
7	Mr. Naik Somesha	Member	Assistant Professor, Electrical Engineering
8	Ms. Mulla Samina	Member	Assistant Professor, Computer Science & Engineering
9	Ms. Nalawade Sanskruti	Member	Assistant Professor, E&TC Engineering

2. IQAC

The IQAC Committee includes all stakeholders of the Institute, i.e. students, alumni, all department and Section Heads, including the Library, Sports, Students Hostel, Examination & Evaluation, Co-curricular and Extra-curricular activity members, Management, Local community and Industry experts.

Table 10.1.3.c IQAC committee members

Sr. No.	Name	Designation	Designation Organization
1	Dr. Vilas Pharande	Chairman	Principal, Arvind Gavali College of Engineering Satara
2	Mr. Vishal Hingmire	Coordinator	Assistant Professor, E& TC Engineering
3	Mr. Nitin Kanse	Member	Registrar, AGCE, Satara
4	Mr. Chetan Nalawade	Member	MD, Shuddha Milk and Milk Products, Satara
5	Mr. Samadhan Jadhav	Member	MD, Satara Engineering Work, Satara
6	Mrs. Shakuntala Pawar	Member	HR Head, Mutha Foundry, Satara
7	Mr. Omkar Waikar	Member	CEO, Supreme Silicones & Trinity Enterprises, Pune
8	Mr. Abhay Khanaure	Member	MD, Meretech, Pune
9	Mr. Sushant Gaikwad	Member	Social worker & Coordinator at Mhada, Pani Foundation
10	Mr. Rohit Bhole	Member	MD, 3 Star IT Solution, Satara
11	Mr. Abhay Gujar	Member	Assistant Professor, AGCE, Satara
12	Mr. Suhas Patil	Member	Assistant Professor, AGCE, Satara
13	Mr. Somesh N.S.R	Member	Assistant Professor, AGCE, Satara
14	Ms. Ashwini Kasture	Member	Assistant Professor, AGCE, Satara
15	Ms. Shital Ghate	Member	Assistant Professor, AGCE, Satara
16	Mrs. Rajani Mandhare	Member	Assistant Professor, AGCE, Satara

2. Examination Committee

The Institute has a college level Exam committee. This committee works under the supervision of Head of the Institute. The Institute exam committee responsible for the preparation of Timetable, setting of question papers, evaluating the answer sheets, preparing the results and declaration of the same. The evaluated answer sheets are shown to the students for any grievances. The grievances of the students are considered and looked into. The main reforms initiated by the Exam Cell Committee are the timely declaration of results and moderation of the question papers. For continuous evaluation process, internal tests, assignments, quiz, presentations, lab work, seminars etc are taken into consideration. Term work marks are given to the student depending on the performance in the internal assessment. The rubrics for each practical and tutorial are based on the parameter which takes into consideration: the performance, lab ethics, self-learning initiative, conceptual understanding, punctuality and attendance. And also the Institute, Controller of Examination conduct the end semester examination in line with the time table received from University.

Table 10.1.3.d Examination committee members

Sr. No.	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr. Kadam Arjun	Coordinator	Assistant Professor, Mechanical Engineering
3	Mrs. Mandhare Rajani	Coordinator	Assistant Professor, CS & Engineering
4	Mr.Nikam Vikas	Member	Assistant Professor, Civil Engineering
5	Ms. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
6	Mr. Kadam Vijay	Member	Assistant Professor, E&TC Engineering
7	Ms.Pooja Bhosale	Member	Assistant Professor, Core Science Engineering

4. University/AICTE/DTE

This committee ensures University affiliation, Extension Of Approval (EOA) from AICTE, facilitation centre for centralised admission process from DTE.

Table 10.1.3.e University/AICTE/DTE committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mrs. Mandhare Rajani	Coordinator	Assistant Professor, CS & Engineering
3	Mr. Kanase Nitin	Coordinator	Registrar, Office
4	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering
5	Dr. Bamane Prashant	Member	Assistant Professor, Civil Engineering
6	Dr. Nayak Meghya Banoth	Member	Assistant Professor, Electrical Engineering
7	Ms. Mandhare Rajani	Member	Assistant Professor, CS & Engineering
8	Mr. Hingmire Vishal	Member	Assistant Professor, E&TC Engineering
9	Ms. Kuthe Priya	Member	Assistant Professor, Core Science Engineering

5. Promotional Activity Committee

Parents and students are not aware of the various educational opportunities available in rural areas. We at AGCE, have a well developed mechanism where faculty members make it a point to meet the parents, students and also various schools and colleges to make them aware of the educational facilities we impart and also of the admission process. Due to this, all the people are made aware not only of the presence of our Institute but also of the different career opportunities. As per the DTE process School connect program is conducted by faculty members visiting different schools and students. Faculty members give information about various scholarships, transport facilities and also the accommodation facility made available to the students including girl's hostel.

Table 10.1.3.f Promotional Activity Committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr. Hingmire Vishal	Coordinator	Assistant Professor, E&TC Engineering
3	Mr. Shinde Mahesh	Coordinator	Clerk, Office
4	Mr. Kamble Ankur	Member	Assistant Professor, Mechanical Engineering
5	Dr. Bamane Prashant	Member	Assistant Professor, Civil Engineering
6	Dr. Nayak Meghya Banoth	Member	Assistant Professor, Electrical Engineering
7	Ms. Waghmare Shital	Member	Assistant Professor, CS & Engineering
9	Mrs. Kasture Ashwini	Member	Assistant Professor, Core Science Engineering

6. Training and Placement Committee

The Institute Provides Skill Improvement Program for Placements. That gives personal and career counselling to achieve desirable improvement in students. One of the major objectives is to help students to obtain internships and placement in companies across various industrial sectors. The students are encouraged to present technical papers at seminars in other Institutes with a view to improving their research and presentation skills. Faculty members from each department are co-opted as members of the Placement Cell.

Table 10.1.3.g Training & Placement committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr. Pathak Pranav	Coordinator	Assistant Professor, CS & Engineering
3	Mr. Kadam Arjun	Member	Assistant Professor, Mechanical Engineering
4	Mr. Sapkal Rajendra	Member	Assistant Professor, Civil Engineering
5	Mr. Chavan Santosh	Member	Assistant Professor, E&TC Engineering
6	Ms. Kuthe Priya	Member	Assistant Professor, Core Science Engineering

7. Alumni Committee

Alumni Cell, the single point of contact between Alumni and Institute, offers our alumni a host of services that enables them keep in touch with their batch mates and also of the different activities conducted in the Institute.

Table 10.1.3.h Alumni Committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr. Chavan Santosh.	Coordinator	Assistant Professor, E&TC Engineering
3	Dr. Nayak Meghya Banoth	Coordinator	Assistant Professor, Electrical Engineering

4	Mr. Kamble Ravi	Member	Assistant Professor, Mechanical Engineering,
5	Mr. Sapkal Rajendra	Member	Assistant Professor, Civil Engineering
6	Mrs. Kadam Anuradha	Member	Assistant Professor, CS & Engineering
7	Ms. Kuthe Priya	Member	Assistant Professor, Core Science Engineering

8. R & D and IPR

Research and Development cell designs annual research activity plan for all the departments, establish liaison with near and far industries and identify the technological challenges being faced by them. These problems of the industry are taken up as projects for finding solutions through R&D which are assigned to both faculty members and students. To initiate and promote MoUs with Industries for consultancy, collaborative research, sponsored projects, Industry and Institute interactions etc. To motivate students for presenting papers in National and International conferences, Demonstrate projects in various competitions.

Table 10.1.3.h R & D and IPR committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Mirajkar Gayatri	Coordinator	Assistant Professor, E&TC Engineering
3	Dr. Salman Waremani	Member	Assistant Professor, Mechanical Engineering
4	Mr.Shinde Suraj	Member	Assistant Professor, Civil Engineering
5	Mr. Gujar Vijay	Member	Assistant Professor, CS & Engineering
6	Mr. Chavan Santosh	Member	Assistant Professor, E&TC Engineering

7	Ms. Bhilare Nikita	Member	Assistant Professor, Core Science Engineering

9. Infra administration & Maintenance

The Committee a setup to look and take care of the maintenance of the overall infrastructure of the Institute. The Institute has well equipped infrastructural facilities for the efficient conduction various examinations.

Table 10.1.3.i Infra administration & Maintenance committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Ms. Mulla Samina	Coordinator	Assistant Professor, CS & Engineering
3	Mr. Nikam Vikas	Coordinator	Assistant Professor, Civil Engineering
4	Mr. Naik Somesha	Coordinator	Assistant Professor, Electrical Engineering
5	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering
6	Dr. Nayak Meghay Banoth	Member	Assistant Professor, Electrical Engineering
7	Mrs. Kandarkar Sucharita	Member	Assistant Professor, E&TC Engineering
8	Ms.Shinde Swapnali	Member	Assistant Professor, Core Science Engineering

10. ICT Committee

ICT Committee is actively involved in the proper maintenance of the various digital working tools like an ICT panel which includes 3-Smart boards, 6-Overhead projectors, well equipped computer labs. For any maintenance the committee looks into the same and the problem is rectified.

The committee also encourages maximum students participation in various online programs available under NPTEL/MOOCS, for their overall development.

Table 10.1.3.j ICT committee members			
Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Ms. Mulla Samina	Coordinator	Assistant Professor, CS & Engineering
3	Mr. Nikam Vikas	Coordinator	Assistant Professor, Civil Engineering
4	Mr. Naik Somesha	Coordinator	Assistant Professor, Electrical Engineering
5	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering
6	Dr. Nayak Meghay Banoth	Member	Assistant Professor, Electrical Engineering
7	Mrs. Kandarkar Sucharita	Member	Assistant Professor, E&TC Engineering
8	Ms.Shinde Swapnali	Member	Assistant Professor, Core Science Engineering

11. Anti ragging Committee

These committees ensure that at least one faculty member will be present at any particular time at all the locations to curb ragging. Instructions are given to student volunteers to take precautionary measures to avoid ragging at locations like Canteen, bus stops and canvass about anti-ragging through the use of Flexes, Posters and Boards in the Institute premises and surrounding areas where there is a chance of ragging. Fresher's and parents are guided and counselled against ragging and affidavits duly signed the students and parents, against ragging are taken at the time of admission.

Table 10.1.3.k Anti ragging committee members			
Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal

2	Mr. Jagtap Dayanand	Coordinator	HOD E&TC Engineering
3	Miss. Bhosale Raupali H	Member	Social Worker
4	Adv. Dixit D.C.	Member	Advocate
5	Mr. Barge Abhijeet	Member	Local Media
6	Mr. Patil Suhas	Member	Assistant Professor Mechanical Engineering
7	Mr. Nayak Banoth Meghya	Member	HOD Electrical Engineering
8	Mrs.Sawant Ashwini	Member	CSE Department Engineering
9	Dr. Bamane Prashant	Member	Assistant Professor, Civil Engineering
10	Mr. Shinde Chandrashekhar	Member	Office Superintendent
11	Mr. Kadam Vijay	Member	Assistant Professor E & TC Engineering
12	Mr. Khairmode Omkar	Member	Assistant Professor Mechanical Engineering
13	Mr. Bhoite Aryan	Member	Student E&TC Engineering
14	Mr. Roman Aniket	Member	Student Civil Engineering
15	Mr. Chavan Aditya	Member	Student Electrical Engineering
16	Mr. Shinde Suyog	Member	Student Mechanical Engineering
17	Miss. Gawade Priti	Member	Student CSE Engineering
18	Ms.Kadam Dhanashree	Member	Student Core Science & Engineering

12. Reservation Committee

Reservation committee monitors awarding of scholarships to students belonging to various categories viz. Open. OBC, NT, SC and also guide the students of the various facilities available to them from State and Central government for their maximum benefit.

Table 10.1.3.1 Reservation committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Thombare Vijay	Coordinator	HOD Civil Engineering
3	Mr. Jagtap Dayanand	Coordinator	Assistant Professor, E&TC Engineering
4	Mrs. Alatkar Manisha	Coordinator	Assistant Professor, Mechanical Engineering
5	Mr. Patil Suhas	Member	Assistant Professor, Mechanical Engineering
6	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering
7	Mrs. Ghate Shital	Member	Assistant Professor, Civil Engineering
8	Dr. Nayak Meghay Banoth	Member	Assistant Professor, Electrical Engineering
9	Ms. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
10	Mrs. Sawant Ashwini	Member	Assistant Professor, CS & Engineering
11	Ms. Waghmare Shital	Member	Assistant Professor, CS & Engineering
12	Ms. Sawashe Ketaki	Member	Assistant Professor, E&TC Engineering

13	Mrs. Bhosale Rohini	Member	Assistant Professor, Core Science Engineering

13. Internal complaints Committee

Women's Grievance Cell is guided by Principles of natural justice while redressing the grievances. The cell will consider grievances concerned with sexual harassment and other acts related to gender-based discrimination.

Table 10.1.3 Internal Complaints Committee (ICC) members

Sr. No.	Names of committee members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Mirajkar Gayatri	Coordinator	Professor, E&TC Engineering
3	Dr. Thombare Vijay	Member	Professor, Civil Engineering
4	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering
5	Mr. Patil Suhas	Member	Assistant Professor, Mechanical Engineering
6	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering
7	Mrs. Ghate Shital	Member	Assistant Professor, Civil Engineering
8	Miss. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
9	Mrs. Sawant Ashwini	Member	Assistant Professor ,Computer Science & Engineering
10	Mrs. Pawar Snehal	Member	Assistant Professor, Core Science Engineering
11	Mrs. Ghadge Rupali	Member	Clerk
12	Mrs. Shinde Jayashri	Member	Assistant Librarian

13	Miss. Lalge Prajkta	Member	Student, Mechanical Engineering
14	Miss. Jadhav Akanksha	Member	Student, Electrical Engineering
15	Miss. Yadav Bhagyashri	Member	Student, CSE Engineering
16	Miss. Pawar Akanksha	Member	Student, E&TC Engineering
17	Mr. Shelke Siddheshwar	Member	Student, Civil Engineering
18	Miss. Chavan Nikita	Member	Student, First Year Engineering
19	Miss. Jadhav Vrunda	Member	Student, Polytechnic Engineering

14. Extracurricular Activities Committee:

Students have strong representations in all cultural and sports committees. They help in organization and management of different events. Major events include annual Sports Competition and Cultural event. Organize intra-college competitions at the Institute level. Assist and encourage the students to participate actively in organizing and conducting various indoor, outdoor sporting games. Maintain records of the sporting events attended by students held in the Institute. Submit annual report of the sports/ events conducted, budget allocations and expenditure incurred during the year. Encouraging students to participate in the intra or inter-collegiate events. Students are part of organizing committees all the engineering activities at departmental/Institute level. Some of these activities include conferences, coding, project contests, technical events, quiz competitions, student club activities etc.

Table 10.1.3.m Extracurricular Activities Committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr. Ghadge Nikhil	Coordinator	Assistant Professor, Mechanical Engineering
3	Mr. Kamble Ankur	Coordinator	Assistant Professor, Mechanical Engineering
4	Ms. Waghmare Shital	Coordinator	Assistant Professor, CS & Engineering

5	Mr. Salunkhe Rakesh	Member	Assistant Professor, Civil Engineering
6	Ms. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
7	Ms. Nalawade Sanskriti.	Member	Assistant Professor, E&TC Engineering
8	Ms. Bhosale Pooja	Member	Assistant Professor, Core Science Engineering,

15. Grievances Redressal Committee

A grievance cell is established in this Institute to resolve any types of disputes among the students. Grievance boxes are made available in the Institute. Stakeholders can drop the grievances mentioned on the paper in the box provided. Resolve grievances which develop in Institute premises, maintaining confidentiality, impartiality, transparency. Establish grievance free Institute environment. To resolve the disputes and any other issues arising amongst the students. To create a professional environment for sustainable development. Encourage the students to show responsible approach. To enhance effective communication to state the grievance verbally or through the use of grievance box. Encourage the students to practice courteous communication behaviour which will be useful in their entire life.

Table 10.1.3. Grievance Redressal Cell committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr Suhas Patil	Coordinator	Assistant Professor, Mechanical Engineering
3	Mr. Jagtap Dayanand Bajirao	Coordinator	HOD E&TC Engineering
4	Mrs. Alatkar Manisha Nilkanth	Coordinator	Assistant Professor, Mechanical Engineering
5	Mr. Kanse Nitin	Member	Registrar

6	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering
7	Ms. Waghmare Shital	Member	Assistant Professor, Computer Science Engineering
8	Ms.Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
9	Mrs. Mandhare Rajani	Member	Assistant Professor, Computer Science Engineering
10	Miss. Pawar Snehal	Member	Assistant Professor, Core Science & Engineering
11	Mr. Gaikawd Sushant	Member	Student Civil Engineering
12	Mr. Sawant Prajwal	Member	Student Computer Science & Engineering
13	Mr. Karavale Chetan	Member	Student Core Science Engineering
14	Mr. Kadam Rohit	Member	Student Electrical Engineering
15	Miss. Pawar Akaksha	Member	Student E&TC Engineering
16	Mr. Masal Dadasaheb	Member	Student Mechanical Engineering

16. Library Committee

Library committee is involved in collecting the requirements of the text books, reference books, journals and ensuring adequate number of copies are made available in the library. Planning and implementing the library automation, procedures, digital library development and usage. Finalizing the list of books, journals, magazines and equipment in the central library as well as departmental libraries and propose budgetary estimates to the administrative department and also conducting verification of annual stock. The Institute library has a vast collection of texts books and general books, International and National journals, online databases to cater to the needs of both UG and PG students. Separate sections for General, Reference books, Journals and Periodicals, Magazines are provided along with free Net browsing (DelNet).

Table 10.1.3.o Library Committee members			
Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mrs. Yewale Vaishali	Coordinator	Librarian, Central Library
3	Mr. Salunkhe Sushant	Member	Assistant Professor, Mechanical Engineering
4	Mr. Salunkhe Rakesh	Member	Assistant Professor, Civil Engineering
5	Mr. Naik Somesha	Member	Assistant Professor, Electrical Engineering
6	Mr. Gujar Vijay	Member	Assistant Professor, CS & Engineering
7	Mr. Hingmire Vishal	Member	Assistant Professor, E&TC Engineering
8	Mrs.More Sonali	Member	Assistant Professor, Core Science Engineering

B. Grievances Redressal Mechanism

Grievances are taken through following committees. Suggestion boxes are kept for the students

Grievances Redressal Committee

Internal Complaint Committee

Anti-ragging Committee

Grievance Redressal Mechanism: -

The institute has constituted Grievance Redressal cell (GRC), Internal Complaints Committee (ICC) and Antiragging Committee as per the guidelines by the competent authority. Online Grievance Redressal system is purchased and installed.

1.0 Grievance Redressal cell (GRC): - Dr. Thombare Vijay Ramchandra

Grievance Redressal Cell is formed to provide a safe, fair and harmonious learning and work environment, for handling day-to-day grievances related to students, parents and employees. Grievance Redressal Cell facilitates the resolution of grievances in a fair and impartial manner maintaining necessary confidentiality.

Objectives of Grievance Redressal Cell:

- To ensure a fair, impartial and consistent mechanism for Redressal of varied issues faced by the students, parents and employees. To promote cordial Student-Student relationship, Student-teacher relationship, teacher-teacher relationship.
- To develop a responsive and accountable attitude amongst all to maintain a harmonious environment in the college campus. To ensure that grievances are resolved timely with complete confidentiality

Table 10.1.3p Grievance Redressal Cell

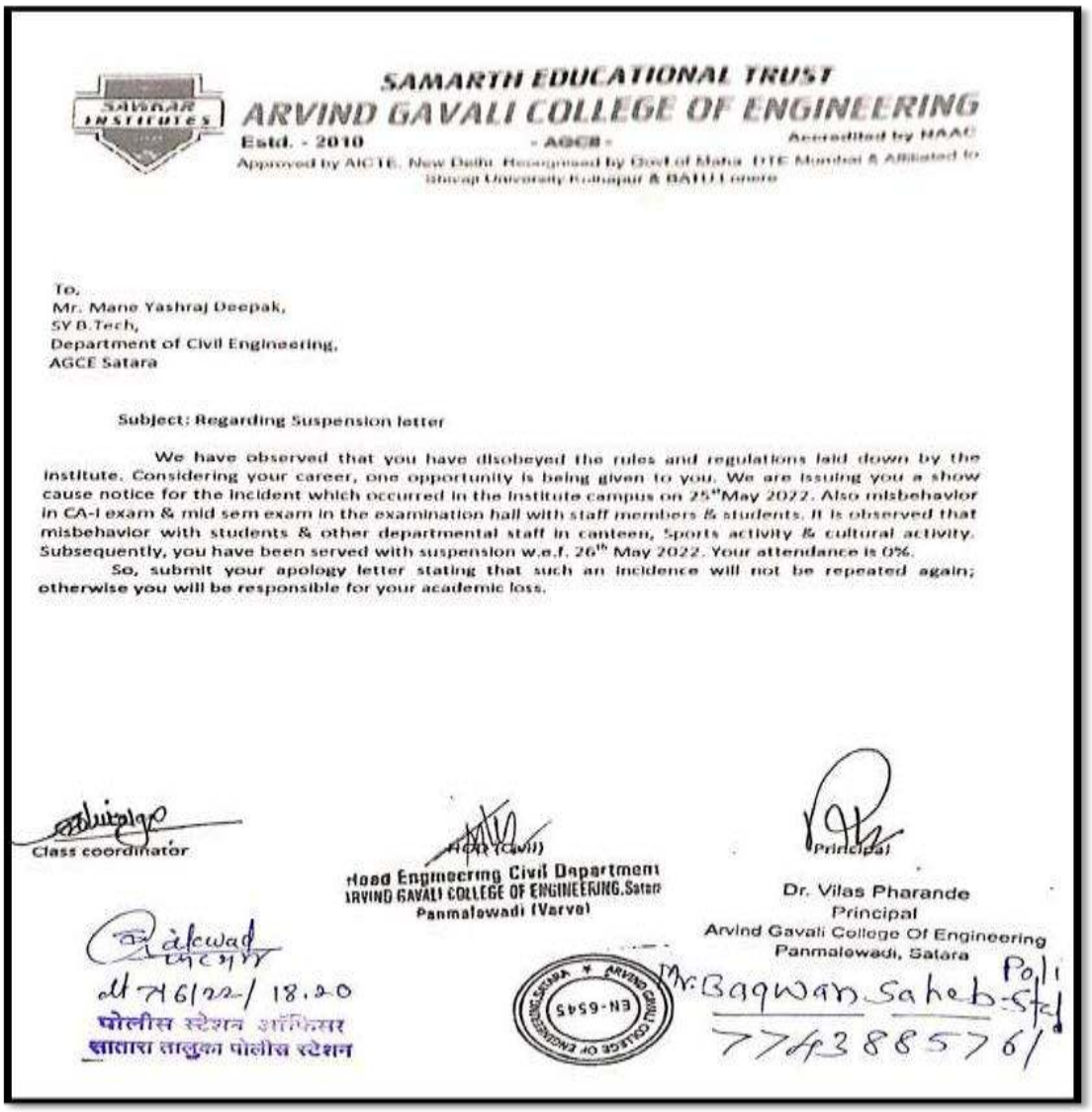
Grievance Redressal Cell committee			
Sr.No	**Names of members**	**Designation**	**Department**
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr Suhas Patil	Coordinator	Assistant Professor, Mechanical Engineering
3	Mr. Jagtap Dayanand Bajirao	Coordinator	HOD E&TC Engineering
4	Mrs. Alatkar Manisha Nilkanth	Coordinator	Assistant Professor, Mechanical Engineering
5	Mr. Kanse Nitin	Member	Registrar
6	Mr. Patil Suhas Prakash	Member	Assistant Professor, Mechanical Engineering
7	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering
8	Ms. Waghmare Shital	Member	Assistant Professor, Computer Science Engineering

9	Ms.Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
11	Mrs. Mandhare Rajani	Member	Assistant Professor, Computer Science Engineering
12	Miss. Pawar Snehal	Member	Assistant Professor, Core Science & Engineering
13	Mr. Gaikawd Sushant	Member	Student Civil Engineering
14	Mr. Sawant Prajwal	Member	Student Computer Science & Engineering
15	Mr. Karavale Chetan	Member	Student Core Science Engineering
16	Mr. Kadam Rohit	Member	Student Electrical Engineering
17	Miss. Pawar Akaksha	Member	Student E&TC Engineering
18	Mr. Masal Dadasaheb	Member	Student Mechanical Engineering

Standard Operating Procedure (SOP):

- Any student or parent or staff member who want to initiate a grievance may in the first instance bring the issue to the notice of the Head of the respective department, who will address the issue and try to resolve.
- If there is no response within the stipulated time from the respective department or grievant is dissatisfied with response/resolution to his/her grievance, then the grievant is free to represent his/her grievance to the College Grievance Redressal Cell in formal manner.
- Scrutiny: Grievance Redressal Cell will make a thorough review of the Redressal process.
- Call for hearing: If the Grievance Redressal Cell is not satisfied with the resolution provided by the respective department /individual or upon the grievant written request, the committee shall fix a date for hearing and intimate the same to the respective department /individual as well as the grievant.
- Investigation: If a resolution is not achieved through hearing, then it will take necessary steps to conduct an investigation of the facts. Grievance Redressal Cell will have the right to interview witnesses, if it is required. On the basis of investigation by Grievance Redressal Cell, report will be submitted to the Head of Institution. The grievance Redressal cell shall use its best efforts to work out resolutions of the issue.

Sample of Grievance Redressal mechanism:



SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
Estd. - 2010 - AGCE - Accredited by NAAC
Approved by AICTE, New Delhi. Recognised by Govt of Maha, DTE Mumbai & Affiliated to Shivaji University Kolhapur & BATU Lonere

To,
Mr. Mane Yashraj Deepak,
SY B.Tech,
Department of Civil Engineering,
AGCE Satara

Subject: Regarding Suspension letter

We have observed that you have disobeyed the rules and regulations laid down by the institute. Considering your career, one opportunity is being given to you. We are issuing you a show cause notice for the incident which occurred in the institute campus on 25th May 2022. Also misbehavior in CA-I exam & mid sem exam in the examination hall with staff members & students. It is observed that misbehavior with students & other departmental staff in canteen, Sports activity & cultural activity. Subsequently, you have been served with suspension w.e.f. 26th May 2022. Your attendance is 0%.

So, submit your apology letter stating that such an incidence will not be repeated again; otherwise you will be responsible for your academic loss.

Class coordinator

HOD (Civil)
Head Engineering Civil Department
ARVIND GAVALI COLLEGE OF ENGINEERING, Satara
Panmalewadi (Varve)

Principal
Dr. Vilas Pharande
Principal
Arvind Gavali College Of Engineering
Panmalewadi, Satara

Mr. Baqwan Saheb Poli
7743885761

2.0 Internal Complaints Committee (ICC) - Women's Grievance Cell – Sexual Harassment Committee

The institution believes in gender equality & gender justice in all of its practices. Organizational environment is free from discrimination & harassment with a particular focus on sexual harassment. For this Women's Grievance Cell is established in the college. The cell is responsible for looking into any complaints filed by students & staff about woman grievances at the college.

Objectives of ICC:

- To full fill the directives of the Hon. Supreme court of India (Guide lines of Vishakha Judgment) and concerns expressed by the University grand commission about ensuring safe environment for women student & employees. To promote an environment free of sexual harassment & other acts of gender-based discrimination at the institution that ensures gender equality & equal opportunities.
- To prevent sexual harassment and to promote the general well-being of female
- Students and employees.

Internal Complaints Committee:

Women's Grievance Cell is guided by Principles of natural justice while redressing the grievances. The cell will consider grievances concerned with sexual harassment and other acts related to gender-based discrimination.

Table 10.1.3q Internal Complaints Committee (ICC) / Women's Grievance Cell

Internal Complaints Committee (ICC) / Women's Grievance Cell			
Sr. No.	**Names of committee members**	**Designation**	**Department**
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Mirajkar Gayatri	Coordinator	Professor, E&TC Engineering
3	Dr. Thombare Vijay	Member	Professor, Civil Engineering
4	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering
5	Mr. Patil Suhas	Member	Assistant Professor, Mechanical Engineering
6	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering
7	Mrs. Ghate Shital	Member	Assistant Professor, Civil Engineering

8	Miss. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
9	Mrs. Sawant Ashwini	Member	Assistant Professor ,Computer Science & Engineering
10	Mrs. Pawar Snehal	Member	Assistant Professor, Core Science Engineering
11	Mrs. Ghadge Rupali	Member	Clerk
12	Mrs. Shinde Jayashri	Member	Assistant Librarian
13	Miss. Lalge Prajkta	Member	Student, Mechanical Engineering
14	Miss. Jadhav Akanksha	Member	Student, Electrical Engineering
15	Miss. Yadav Bhagyashri	Member	Student, CSE Engineering
16	Miss. Pawar Akanksha	Member	Student, E&TC Engineering
17	Mr. Shelke Siddheshwar	Member	Student, Civil Engineering
18	Miss. Chavan Nikita	Member	Student, First Year Engineering
19	Miss. Jadhav Vrunda	Member	Student, Polytechnic Engineering

Standard Operating Procedure (SOP) of ICC:

- Any female student or employee wants to initiate a grievance may in the first instance bring the issue to the notice of the Head of the respective department, who will forward the matter to Women's Grievance Cell Scrutiny: Women's Grievance Cell will make a thorough review of the Redressal process.
- Call for hearing: Women's Grievance Cell shall fix a date for hearing and intimate the same to the grievant.
- Investigation: If a resolution is not achieved through hearing, then it will take necessary steps to conduct an investigation of the facts. Women's Grievance Cell will have the right to interview witnesses, if it is required. On the basis of investigation by Women's Grievance Cell, report will be submitted to the Head of Institution. The Women's Grievance Cell shall use its best efforts to work out resolutions of the issue.
- Communication the decision: Upon completion of proceedings, the Head of Institution and Women's Grievance Cell shall communicate the final decision to both parties.
- The proceeding concerning each grievance will be documented in a systematic manner. The information relating to the proceedings shall be treated as confidential and can be viewed only by the members of Women's Grievance Cell, for the purpose of investigation

3.0 Anti-Ragging Committee:

Ragging is a very common problem faced by students in the campus during and after college hours. The consequences of students who faced ragging are very serious and shocking. Thus, this committee was constituted to control ragging and provide relief to students who come under this shadow. The committee has the powers to take stringent action on students involving in such activities. Committee comprises of the following members.

Table 10.1.3r Anti ragging Committee

Anti ragging Committee			
Sr. No.	**Names of committee members**	**Designation**	**Department**
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr. Jagtap Dayanand	Coordinator	HOD E&TC Engineering
3	Miss. Bhosale Rupali H	Member	Social Worker

4	Adv. Dixit D.C.	Member	Advocate
5	Mr. Barge Abhijeet	Member	Local Media
6	Mr. Patil Suhas	Member	Assistant Professor Mechanical Engineering
7	Mr. Nayak Banoth Meghya	Member	HOD Electrical Engineering
8	Mrs.Sawant Ashwini	Member	CSE Department Engineering
9	Dr. Bamane Prashant	Member	Assistant Professor, Civil Engineering
10	Mr. Shinde Chandrashekhar	Member	Office Superintendent
11	Mr. Kadam Vijay	Member	Assistant Professor E & TC Engineering
12	Mr. Khairmode Omkar	Member	Assistant Professor Mechanical Engineering
13	Mr. Bhoite Aryan	Member	Student E&TC Engineering
14	Mr. Roman Aniket	Member	Student Civil Engineering
15	Mr. Chavan Aditya	Member	Student Electrical Engineering
16	Mr. Shinde Suyog	Member	Student Mechanical Engineering
17	Miss. Gawade Priti	Member	Student CSE Engineering
18	Ms.Kadam Dhanashree	Member	Student Core Science & Engineering

10.1.4 Delegation of financial powers (10)

A. Financial powers delegated to the Principal, Heads of Departments and relevant in-charges (3)

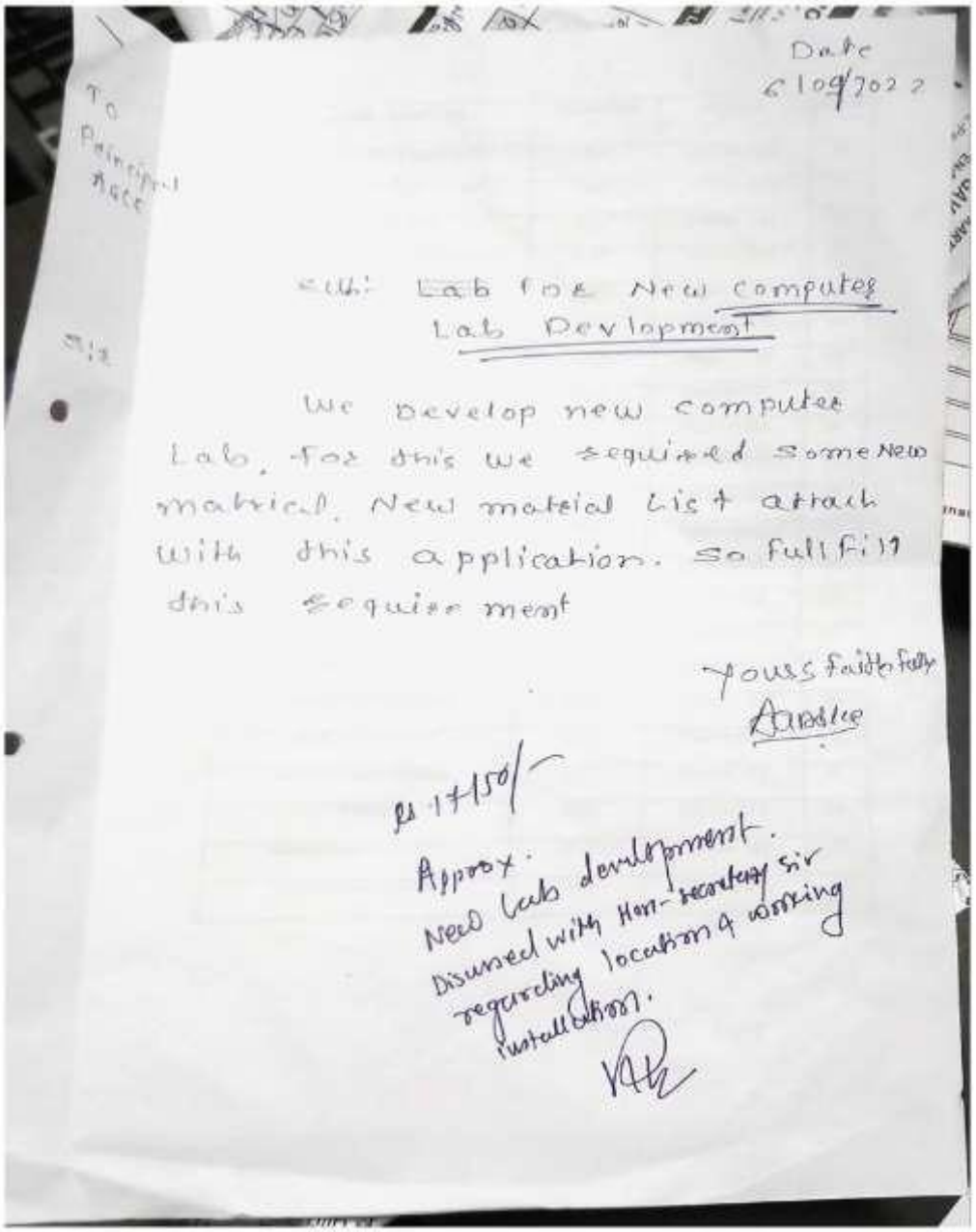
B. Demonstrate the utilization of financial powers for each of the assessment years (7)

In order to discharge the day-to-day functions and activities of the Institute in smooth manner, the financial powers are delegated of the Principal, HODs and Deans by the Management. HODs and Deans also prepare budget of the Department and their relevant functional committees. Total budget of the college is prepared by Administrative Office under guidelines of Principal and Management.

Table 10.1.4a Delegation of Financial Power

Sr. No.	Designation	Financial Power
1	Principal	Authorized to sanction up to Rs. 50,000/-
2	HODs and Deans	Authorized to sanction up to Rs. 5,000/-

Following are the some examples where financial powers are delegated of the Principal & staff members



Date
6/09/2022

To
Principal
AGCE

Sir

Sub: Lab for New Computer Lab Development

We Develop new computer Lab, for this we required some New material. New material list attach with this application. So Fulfill this requirement

Yours faithfully
Ambike

Rs 17150/-

Approx.
Need Lab development.
Discussed with Hon. secretary sir regarding location & working installation.

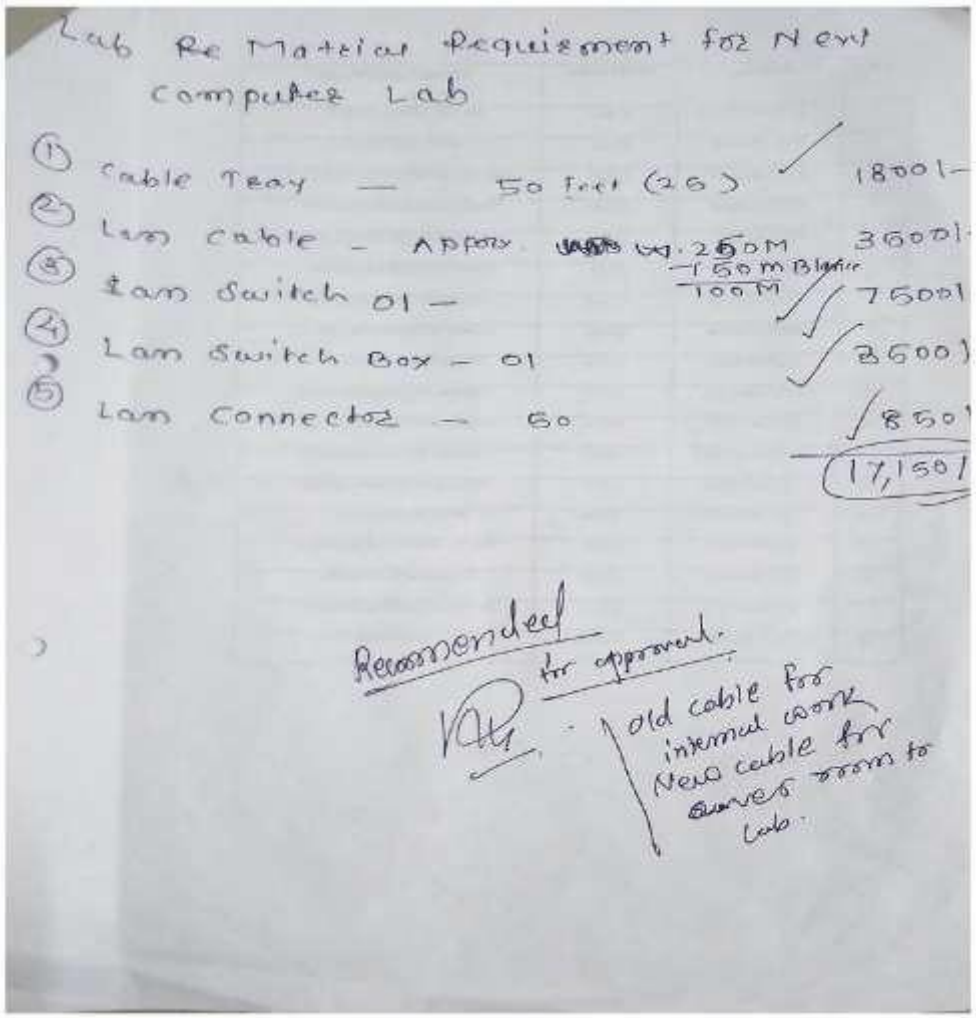
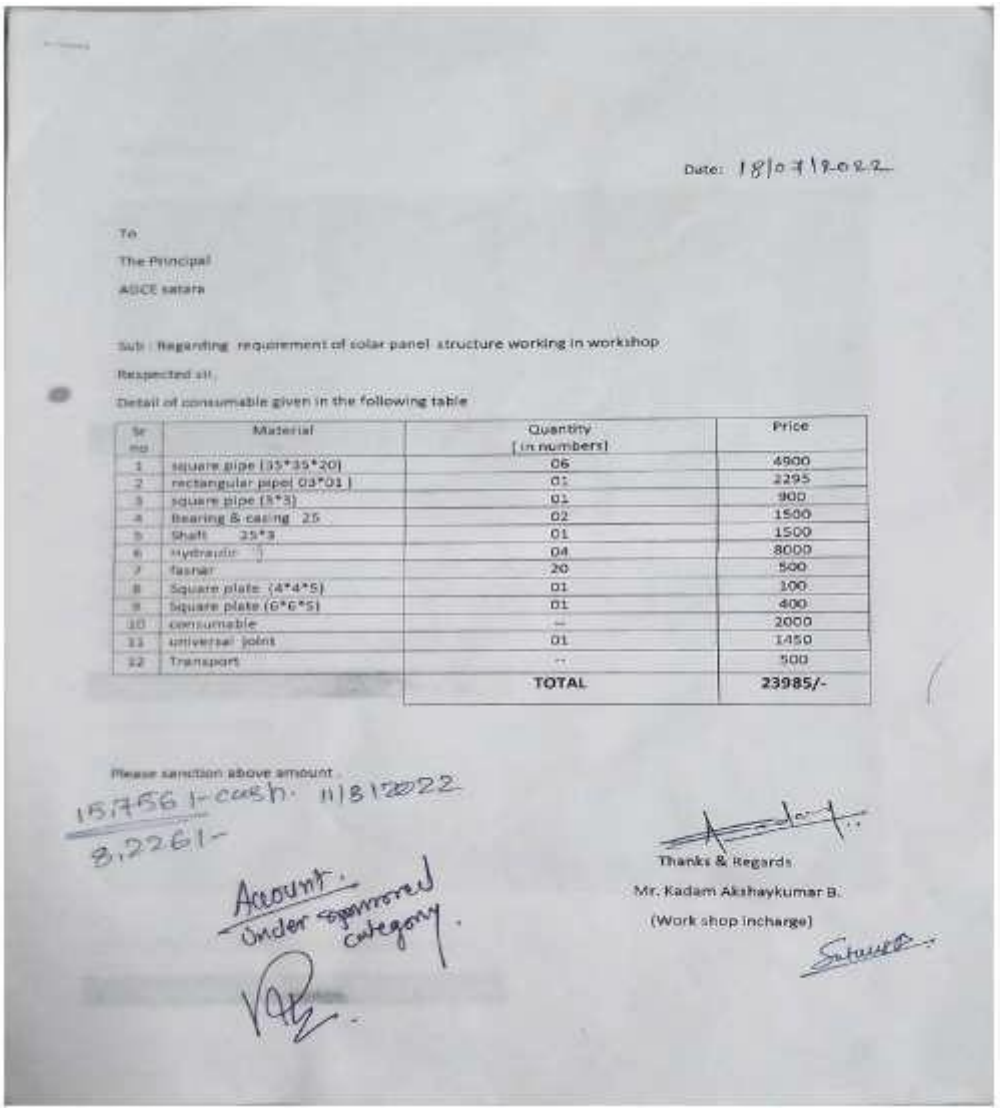


Fig 10.1.4.b1 Principal has approved Rs.17150/- for laboratory development



Date: 18/07/2022

To

The Principal

AGCE satara

Sub : Regarding requirement of solar panel structure working in workshop

Respected sir,

Detail of consumable given in the following table

Sr no	Material	Quantity [in numbers]	Price
1	square pipe (35*35*20)	06	4900
2	rectangular pipe(03*01)	01	2295
3	square pipe (5*3)	01	900
4	Bearing & casing 25	02	1500
5	Shaft 25*3	01	1500
6	Hydraulic	04	8000
7	fasnar	20	500
8	Square plate (4*4*5)	01	100
9	Square plate (6*6*5)	01	400
10	consumable	--	2000
11	universal joint	01	1450
12	Transport	--	500
		TOTAL	23985/-

Please sanction above amount

15,756/- cash. 11/8/2022

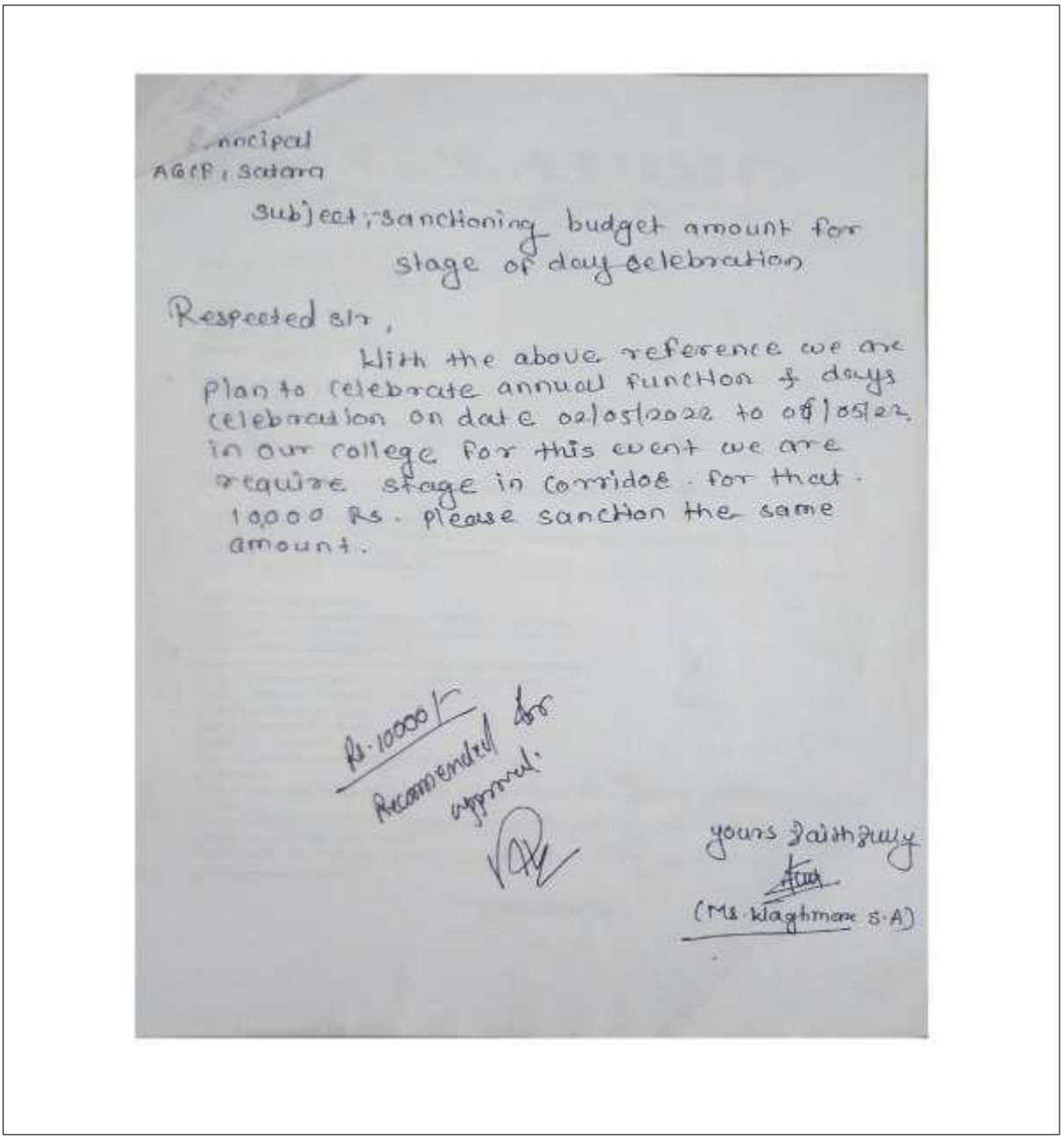
8,226/-

Account.
Under sponsored category.

Thanks & Regards

Mr. Kadam Akshaykumar B.

(Work shop incharge)



Principal
AGCE, Satara

Subject; sanctioning budget amount for stage of day celebration

Respected sir,

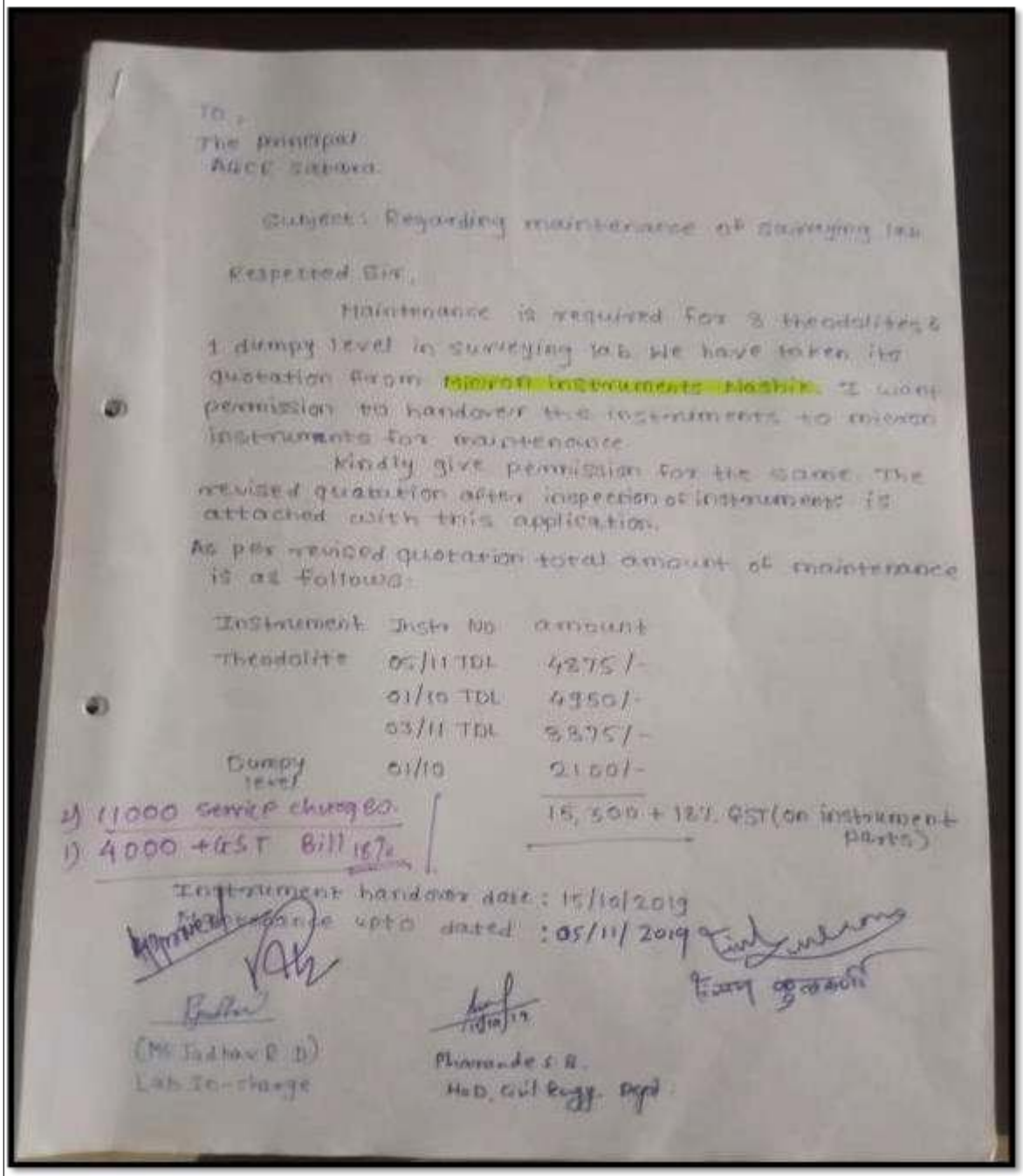
With the above reference we are plan to celebrate annual function & days celebration on date 02/05/2022 to 04/05/22 in our college for this event we are require stage in corridor. for that. 10,000 Rs. please sanction the same amount.

Rs. 10000/-
Recommended for approval.

yours faithfully

(Ms. Waghmare S.A)

Fig 10.1.4.b2 Principal has approved Rs.10000/- for extracurricular activities



To,
The principal
AGCE Satara.

Subject: Regarding maintenance of surveying lab

Respected Sir,

Maintenance is required for 3 theodolites & 1 dumpy level in surveying lab. We have taken the quotation from [redacted] Nashik. I want permission to handover the instruments to [redacted] instruments for maintenance.

Kindly give permission for the same. The revised quotation after inspection of instruments is attached with this application.

As per revised quotation total amount of maintenance is as follows:

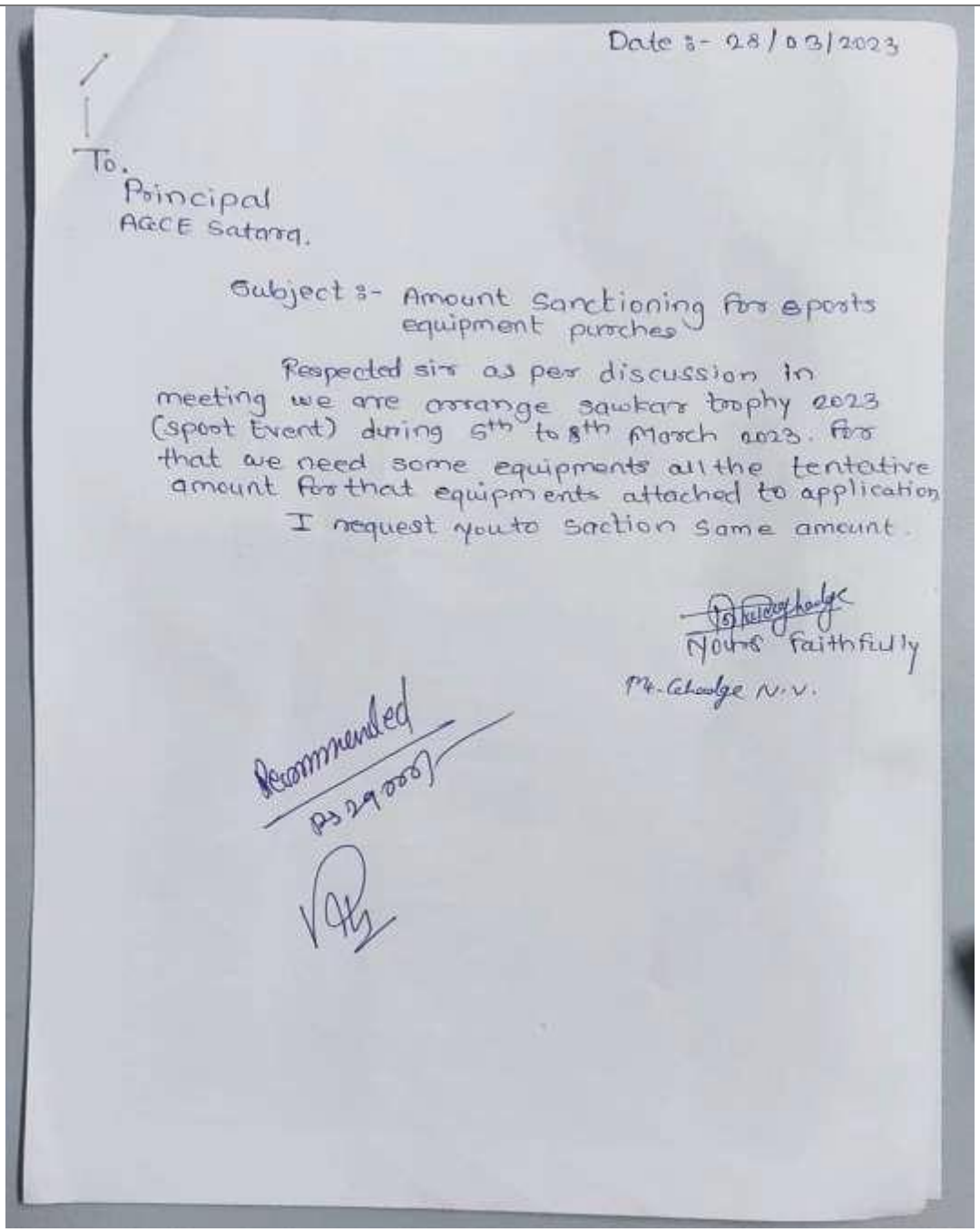
Instrument	Instr No	amount
Theodolite	05/11 TDL	4875/-
	01/10 TDL	4950/-
	03/11 TDL	3375/-
Dumpy level	01/10	2100/-
		15,300 + 18% GST (on instrument parts)

2) 11000 service charges.
1) 4000 + GST Bill 18%

Instrument handover date: 15/10/2019
Instrument [redacted] upto dated: 05/11/2019

(Mr Jadhav P. D)
Lab In-charge

Pharande S. B.
HoD, Civil Engg. Dept



Date :- 28/03/2023

To.
Principal
AGCE Satara.

Subject :- Amount Sanctioning for sports equipment purches

Respected sir as per discussion in meeting we are arrange sawkar trophy 2023 (spoot event) during 5th to 8th March 2023. For that we need some equipments all the tentative amount for that equipments attached to application I request you to saction same amount.

Yours faithfully
M. Gholge N.V.

Recommended
Rs 29 000/-

Fig 10.1.4.b3 Principal has approved Rs.15000/- for Sports activities

amazon.in

Tax Invoice/Bill of Supply/Cash Memo
(Original for Recipient)

Sold By :
Payal Enterprises
* 4658 A / 21 ANSARIROAD, ANSARI ROAD
DARYA GNAJ, DELHI, 110002
IN

PAN No: AAPFP4704K
GST Registration No: NotApplicable

Billing Address :
Arvind Gavali College of Engineering
Gat no. 247, Panamalewadi
SATARA, MAHARASHTRA, 415015
IN
State/UT Code: 27

Shipping Address :
Arvind Gavali College of Engineering
Arvind Gavali College of Engineering
Gat no. 247, Panamalewadi
SATARA, MAHARASHTRA, 415015
IN
State/UT Code: 27
Place of supply: MAHARASHTRA
Place of delivery: MAHARASHTRA

Order Number: 402-0209171-6497171
Order Date: 27.03.2023

Invoice Number : IN-16968
Invoice Details : DL-141916061-2223
Invoice Date : 27.03.2023

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	Embedded Microcomputer System Real Time Interfacing | 8131516326 (9788131516324)	₹608.00	1	₹608.00	0%	IGST	₹0.00	₹608.00
					0%	IGST	₹0.00	
					0%	None	₹0.00	
	Shipping Charges	₹100.00		₹100.00	0%	IGST	₹0.00	₹100.00
					0%	IGST	₹0.00	
					0%	None	₹0.00	
TOTAL:							₹0.00	₹708.00

Amount in Words:
Seven Hundred Eight only

For Payal Enterprises:

Authorized Signatory

Whether tax is payable under reverse charge - No

Fig 10.1.4.b4 Staff member has purchase book from their account for library

10.1.5 Transparency and availability of correct/unambiguous information in public domain.

a. Information on the policies, rules, process is to be made available on website

b. Dissemination of the information about students, faculty and staff.

The college maintains transparency in all its operations and working. At the beginning of every academic year, the college brings out a calendar, which contains all the information, required by a student and faculty to carry out his/her studies in the college. Information such as internal marks scored by students, shortage of attendance, if any, availability of scholarships, opportunities for students, etc. are promptly displayed on notice boards. Information about every activity in the college is sent to all staff and students through circulars. The institute has its own website: https://agce.edu.in/, which is updated as and when required. The institute and Program-specific information are made available to all stakeholders through the website.

All the required information on policies, rules, and processes are mention in Process Handbook and is made available on the college website for proper dissemination of this information to stakeholders.

Link: https://agce.edu.in/processhandbook

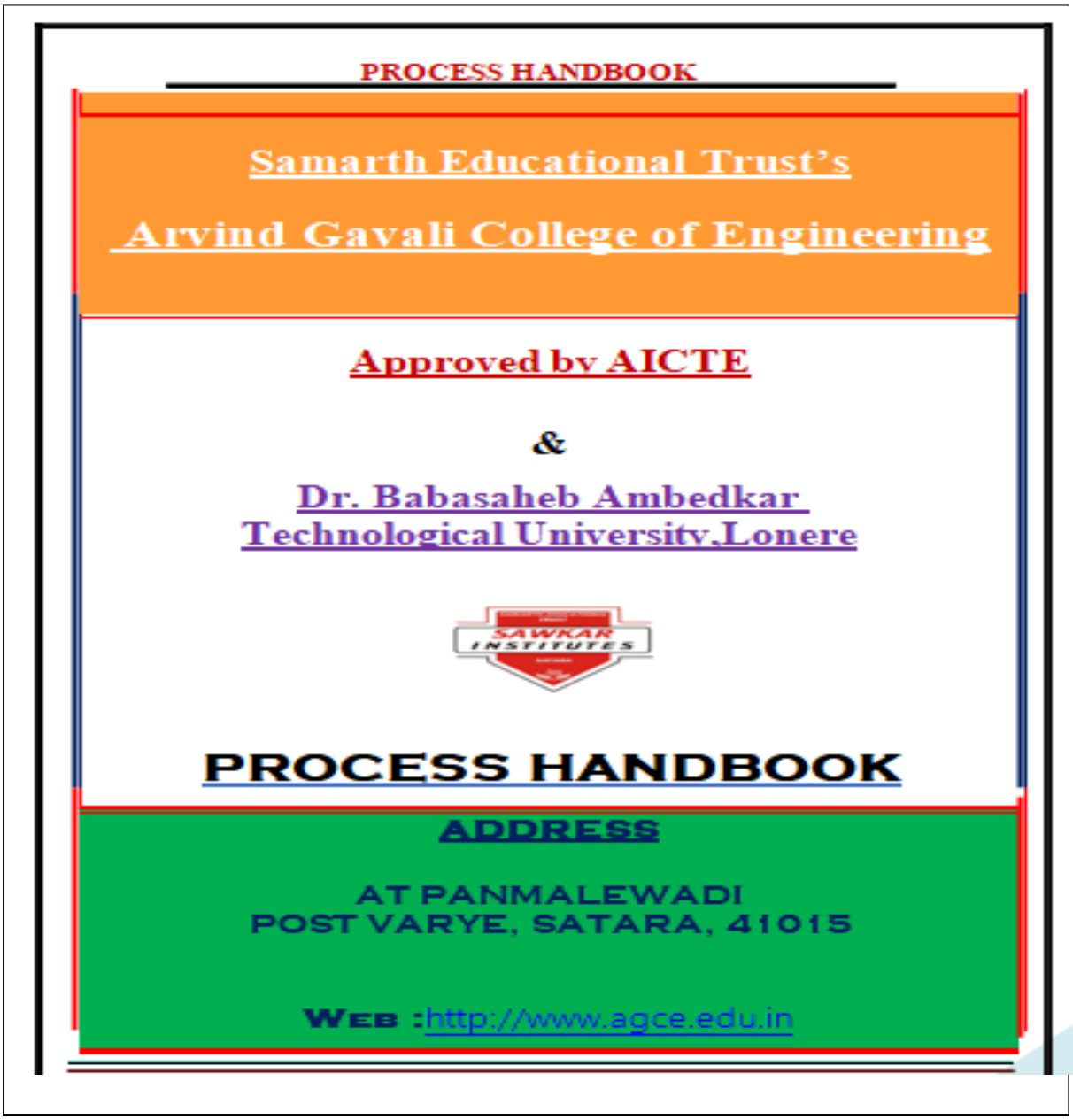


Fig 10.1.5 a Screen shot of Process Handbook first page

b. Dissemination of the information about students, faculty and staff.

Institute disseminate information through promotional activities, website, social media and print media.

i) Promotional Activities

Every year institute propagates information through faculty members in society through various promotional activities.

Fig 10.1.5 b1 Promotion activity to SSC Students

ii) Website

All necessary information including intake, latest news, events and update are made available on institute website.

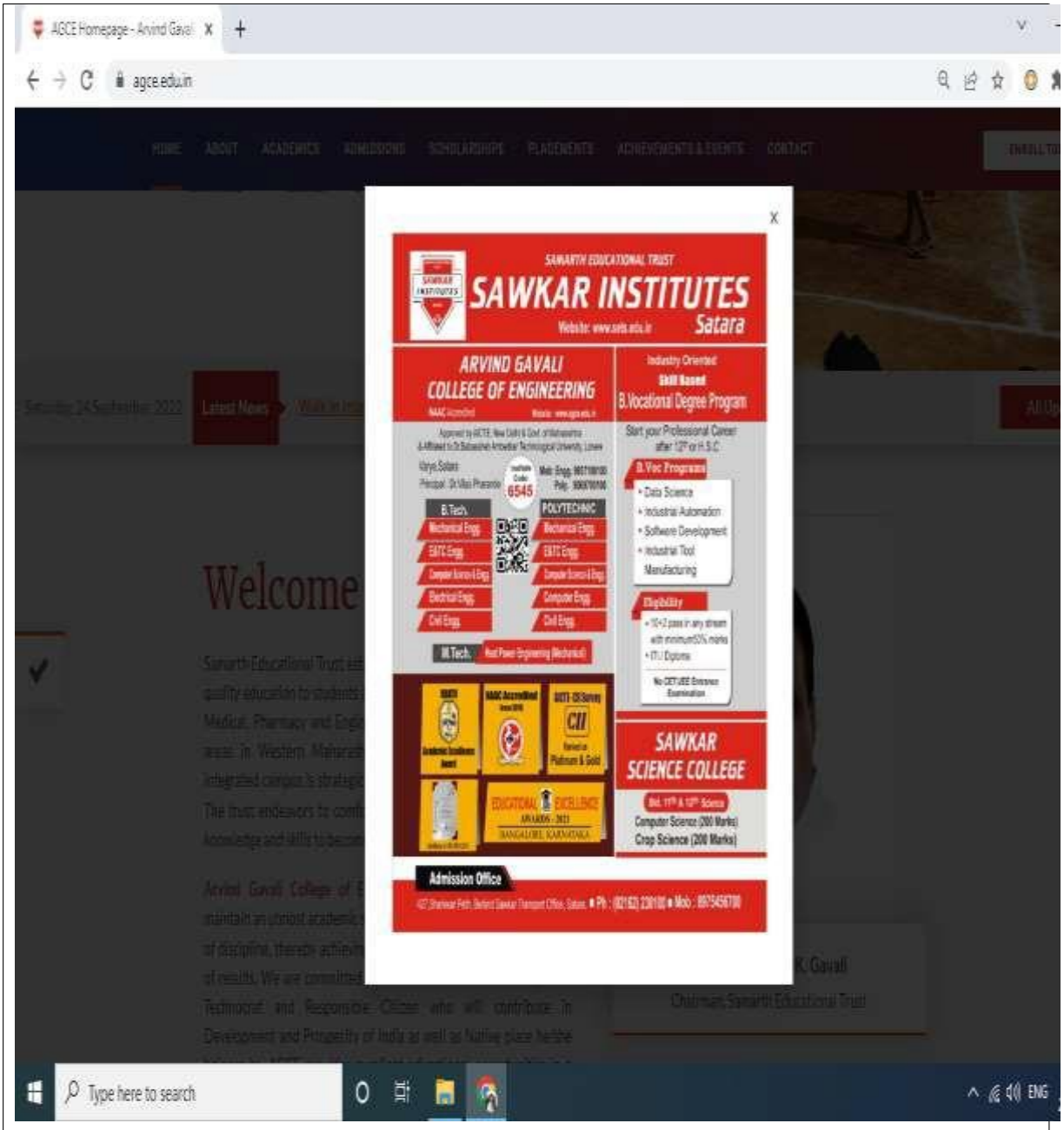


Fig 10.1.5 b2 Information about Admissioon ans intake on website

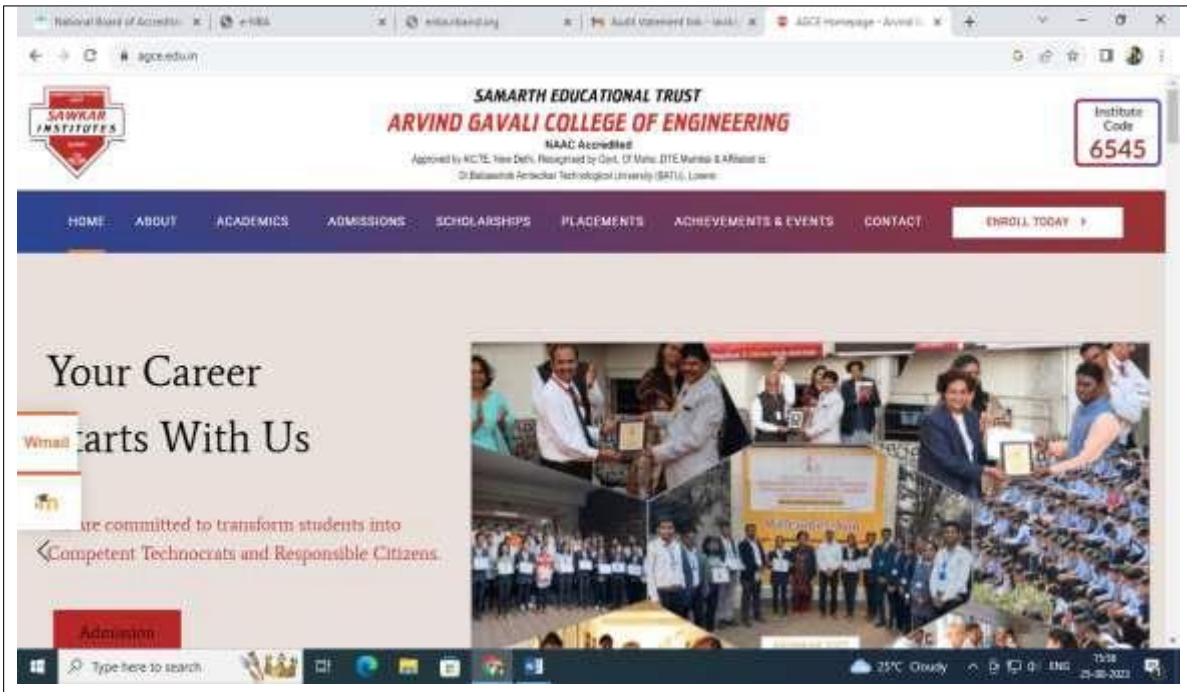


Fig 10.1.5 b3 Information about latest news and udates on website

iii) Social media

Institute disseminate information through social media like Facebook, Instagram among the stakeholders.

Fig 10.1.5 b4 Instagram page of Institute

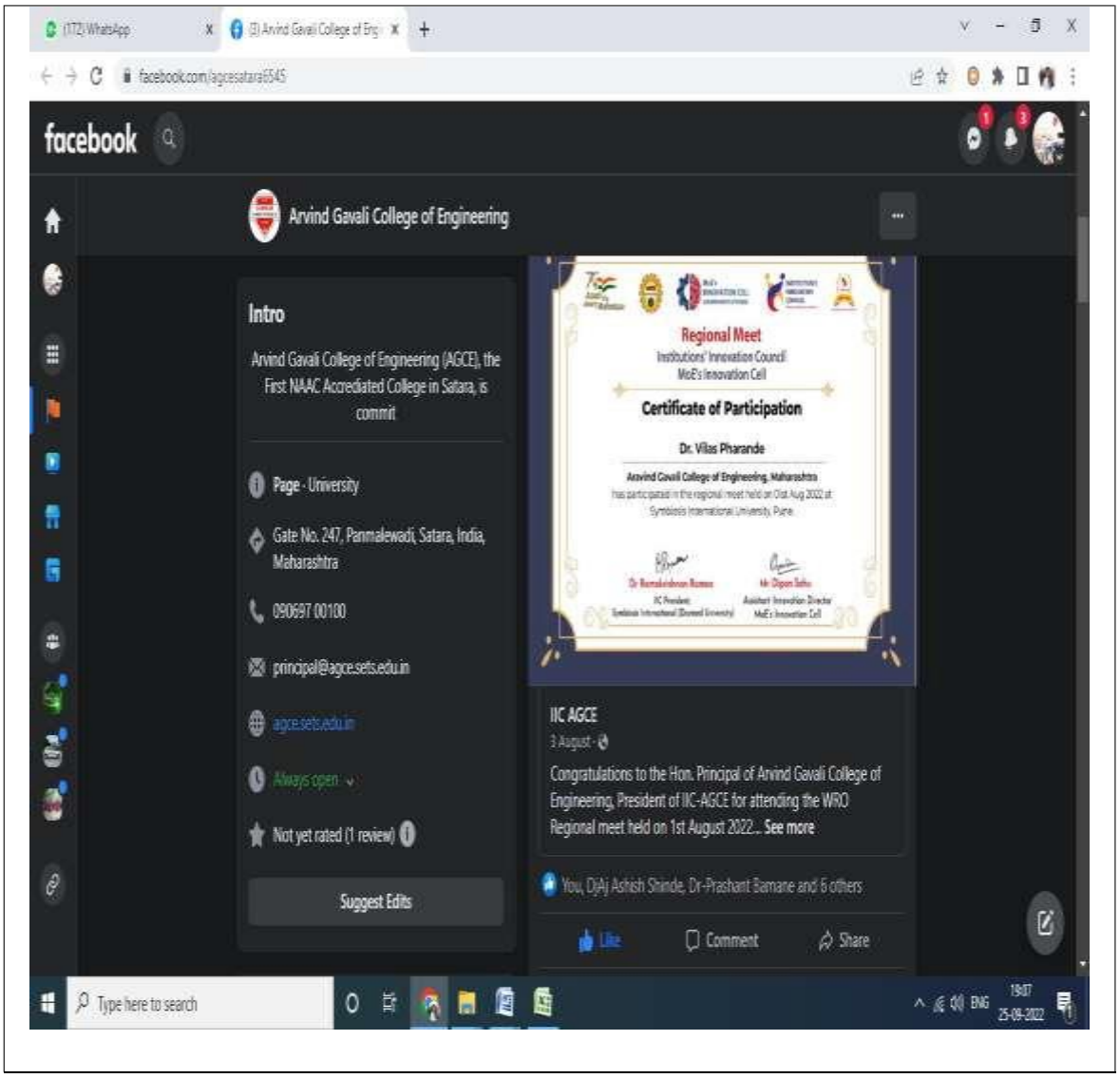
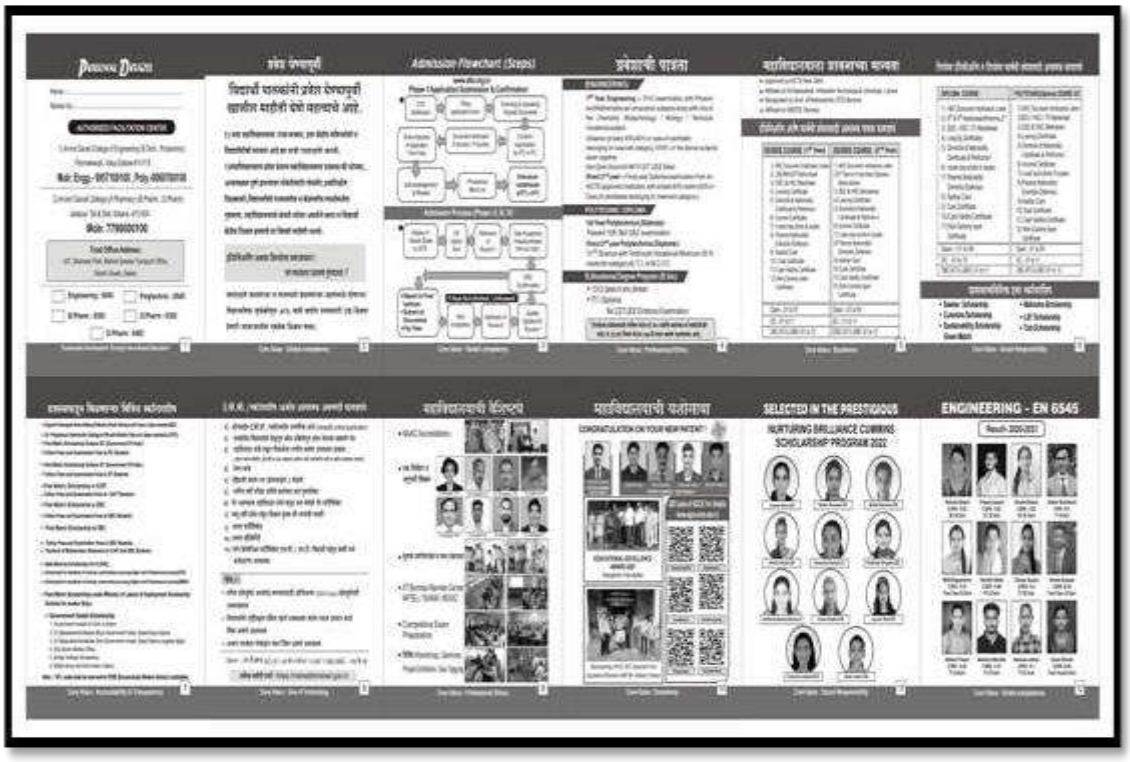


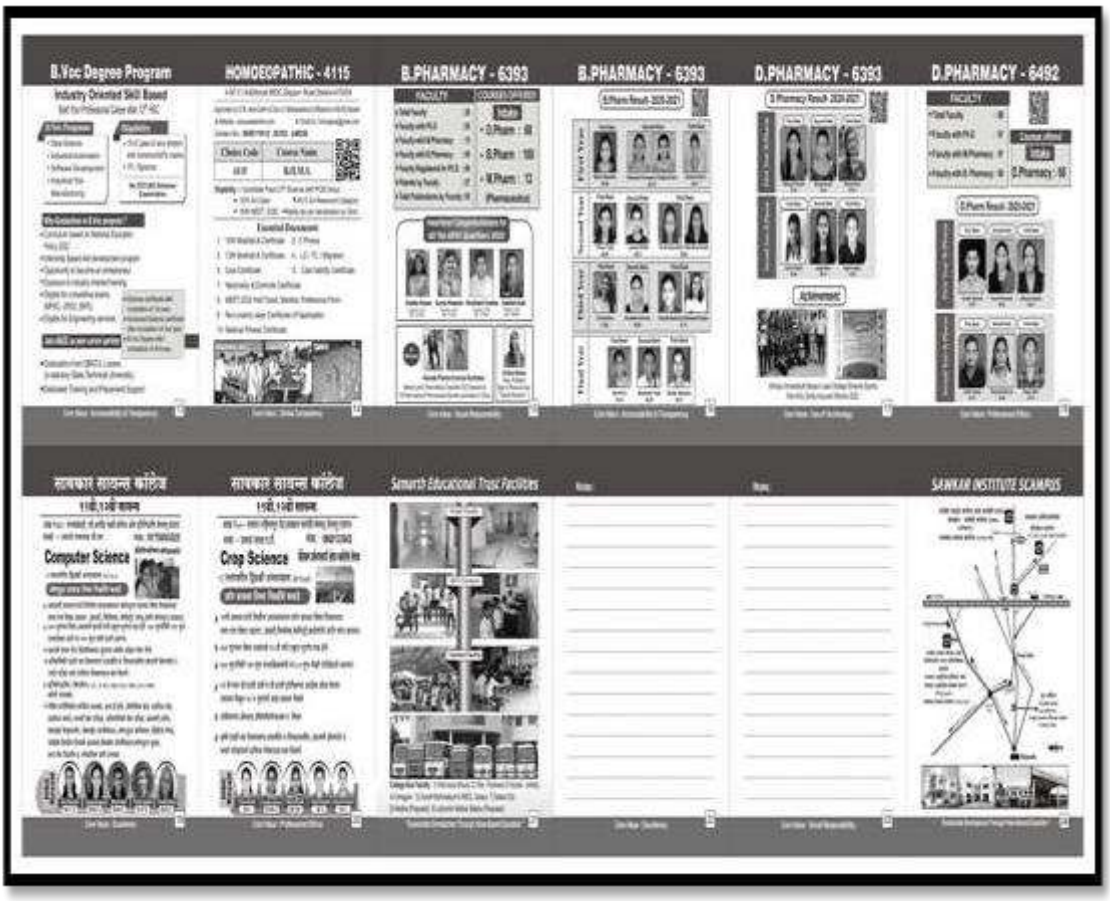
Fig 10.1.5 b5 Facebook page of Institute

iv) Print media

Every year institute publish Admission information diary that includes all institute information like intake, admission process, documents required, faculty members, activities, placement etc.

Fig 10.1.5 b6 Admission information diary


Admission Flowchart (Steps)
SELECTED IN THE PRESTIGIOUS
NURTURING BRILLIANCE CUMMINS
SCHOLARSHIP PROGRAM 2022
ENGINEERING - EN 6545


B.Voc Degree Program
Industry Oriented Skill Based
HOMOEOPATHIC - 4115
B.PHARMACY - 6393
B.PHARMACY - 6393
D.PHARMACY - 6393
D.PHARMACY - 6492
Computer Science
Crop Science
Samarth Educational Trust Facilities
SANWAR INSTITUTE SCAMPUS

SAMARTH EDUCATIONAL TRUST
SAWKAR INSTITUTES
Website: www.sets.edu.in
Satara
ARVIND GAVALI COLLEGE OF ENGINEERING
NAAC Accredited
Website : www.agce.edu.in
Approved by AICTE, New Delhi & Govt. of Maharashtra
& Affiliated to Dr.Babasaheb Ambedkar Technological University, Lonere
Varye,Satara
Principal : Dr.Vilas Pharande
Institute Code: 6545
Mob : 9957100100
9069700100
B.Tech.
Mechanical Engg.
E&TC Engg.
Computer Science & Engg.
Electrical Engg.
Civil Engg.
POLYTECHNIC
Mechanical Engg.
E&TC Engg.
Computer Science & Engg.
Computer Engg.
Civil Engg.
M.Tech.
Heat Power Engineering (Mechanical)
DBATU
Academic Excellence Award
NAAC Accredited from 2016
AICTE- CII Survey
CII
Ranked as Platinum & Gold
EDUCATIONAL EXCELLENCE
AWARDS - 2021
BANGALORE, KARNATAKA
Industry Oriented
Skill Based
B.Vocational Degree Program
Start your Professional Career after 12th or H.S.C
B.Voc Programs
Data Science
Industrial Automation
Software Development
Industrial Tool Manufacturing
Eligibility
10+2 pass in any stream with minimum50% marks
ITI / Diploma
No CET/JEE Entrance Examination
SAWKAR SCIENCE COLLEGE
Std. 11th & 12th Science
Computer Science (200 Marks)
Crop Science (200 Marks)
Our Placement
Samiksha Vanjole
COGNIZANT
(Programmer Analyst)
Pratiksha Sutar
TATA Consultancy Services
(System Engineer)
Anushka Deshmukh
Infosmich
Corporation India LTD.
Tanuja Chavan
WIPRO LTD,Pune
(Project Engineer)
Prajakta Nikam
INFOSYS LTD.
(Systems Engineer)
Akash Desai
TATA Communication
Transformation Services
Admission Office
427,Shaniwar Peth, Behind Sawkar Transport Office, Satara. ■ Ph : (02162) 230100 ■ Mob : 8975456700

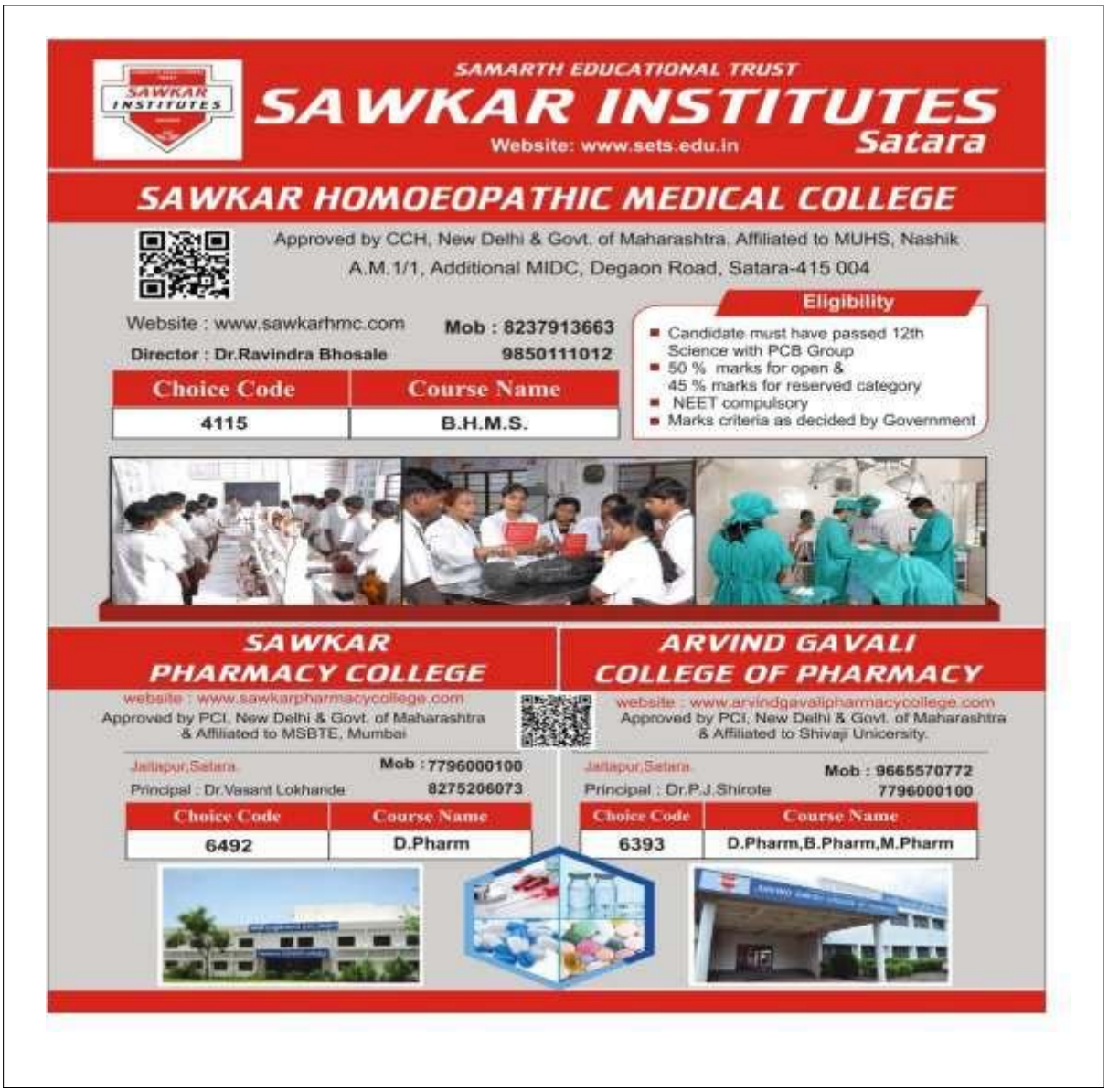


Fig 10.1.5 b7 Admission information brochure

v) Hoardings

Institute disseminate institute information through hoardings at prominent location in the district viz. Koregaon, Karad, Wai, Rahimatpur, and Medha.

Fig 10.1.5 b8 Admission information Hoardings

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)

Institute has a well-defined financial policy which ensures optimal utilization of finances for academic, administrative and research activities. The Institute is being run with self sufficient funds generated from tuition fees and from Samarth Education Trust. In case of activities like expansion and renovation of the building, the management always supports by providing required finance. Financial planning is done efficiently at the beginning of the academic year and the budget is approved by the Governing Body.

Optimum utilization of funds is ensured through: -

Adequate funds are allocated for effective teaching learning practices that include Orientation Programmes, Workshops, Interdisciplinary activities, Training programmes, Refresher Courses that ensures quality education.

Budget is utilized to meet day to day operational and administrative expenses and maintenance of fixed assets. Enhancement of library facilities needs to augment learning practices and accordingly requisite funds are utilized every year.

Adequate funds are utilized for development and maintenance of infrastructure of the Institute.

Partial funds are allocated for social service activities as part of social responsibilities through NSS and NCC. Institute provides financial assistance for mini projects.

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years

Total Income at Institute level: For

CFY, CFYm1, CFYm2 & CFYm3 CFY: (Current Financial Year),

CFYm1: (Current Financial Year minus 1),

CFYm2: (Current Financial Year minus 2) and

CFYm3: (Current Financial Year minus 3)

Table B.10.2a – CFY (2022-23)

Total Income (Amount)				Actual expenditure (till…): (Amount)			Total No. of Students (Student nos.)
Fee	Govt.	Grants	Other Sources (specify) Prizes and Awards	Recurring including salaries	Non Recurring	Special Projects/Any other, specify BCUD, R&D and grants	Expenditure per student
74954259	0	0	133450	75973630	12625864.8	8900	80553.08695

Table B.10.2a - CFY (2021-22)

Total Income (Amount)				Actual expenditure (till…): (Amount)			Total No. of Students (Student nos.)
Fee	Govt.	Grants	Other Sources (specify) Prizes and Awards	Recurring including salaries	Non Recurring	Special Projects/Any other, specify BCUD, R&D and grants	Expenditure per student
79606611	0	0	367635	68270674	10630726	78700	62982.54

Table B.10.2a - CFYm1 (2020-21)

Total Income (Amount)				Actual expenditure (till…): (Amount)			Total No. of Students (Student nos.)
Fee	Govt.	Grants	Other Sources (specify) Prizes and Awards	Recurring including salaries	Non Recurring	Special Projects/Any other, specify BCUD, R&D and grants	Expenditure per student
81414627	0	0	462923	61816533	10297456	74700	53197

Table B.10.2a -CFYm2(2019-20)

Total Income (Amount)				Actual expenditure (till…): (Amount)			Total No. of Students (Student nos.)
Fee	Govt.	Grants	Other Sources (specify) Prizes and Awards	Recurring including salaries	Non Recurring	Special Projects/Any other, specify BCUD, R&D and grants	Expenditure per student
64740364	0	0	734740	63512329	10009259	288619	63904.94

Table B.10.2a- CFYm3(2018-19)

Total Income (Amount)				Actual expenditure (till…): (Amount)			Total No. of Students (Student nos.)
Fee	Govt.	Grants	Other Sources (specify) Prizes and Awards	Recurring including salaries	Non Recurring	Special Projects/Any other, specify BCUD, R&D and grants	Expenditure per student
62384164	0	0	337745	57557774	14197280	151600	65132.84

Table B.10.2b

Items	**Budgeted in 2022- 2023**	**Actual Expenses in 2022-2023 till**	**Budgeted in 2021-2022**	**Actual Expenses in 2021-2022 till**	**Budgeted in 2020-2021**	**Actual Expenses in 2020-2021 till**
Infrastructure Built-Up	11,00,000	10,28,673	3300000	3104976	0	0
Library	80,000	70,845	23000	30445	35000	13570
Laboratory equipment	11,00,000	10,60,990	1080000	1014157	655000	594030
Laboratory consumables	17,75,000	16,47,092	1120000	1023030	1055000	674170

Teaching and nonteaching staff salary	6,91,12,000	6,52,98,451	65100000	61189875	63560000	57326373
Maintenance and spares	28,75,000	27,00,109	3190000	2992063	1350000	1224440
R&D	3,50,000	3,14,190	290000	259388	90000	74700
Training and Travel	26,18,000	24,16,915	1710000	1659560	1600000	1474093
Miscellaneous expenses *(All remaining recurring exp., excl. Depreciation)	2,55,000	2,14,685	159500	148374	135000	113427
Others, specify (All remaining Capital exp.)	3,13,56,000	1,64,28,774	15177000	11686365	27540000	11287915
Total	**11,06,21,000**	**9,11,80,725**	**91149500**	**83108233**	**96020000**	**72782718**

Items	Budgeted in 2019-2020	Actual Expenses in 2019- 2020 till	Budgeted in 2018- 2019	Actual Expenses in 2018- 2019 till
Infrastructure Built-Up	0	0	0	0
Library	167000	156491	400000	138375
Laboratory equipment	850000	797104	430000	277400
Laboratory consumables	1640000	1479508	1536000	2051900
Teaching and nonteaching staff salary	63560000	57623428	69300000	50222741
Maintenance and spares	1985000	1850670	1882000	1812399
R&D	320000	288619	180000	151600
Training and Travel	1705000	1496097	1077000	2106971
Miscellaneous expenses *(All remaining recurring exp., excl. Depreciation)	91000	77900	173000	293916
Others, specify (All remaining Capital exp.)	25374000	10953838	28496520	15267127
Total	**95692000**	**74723655**	**103474520**	**72322429**

10.2.1 Adequacy of budget allocation (10)

During the assessment years, the institute allocated an adequate budget. Budget requirements under ‘recurring’ and ‘non-recurring’ heads are collected from all the departments and sanctions before the commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution. The management has been very efficient in doing this over the past several years.

Adequacy of budget allocation:

10.2.1 Adequate budget allocation for institute

Sr. No	Assessment Year	Allocated Budget	Adequate/ Non-Adequate
1	2022-23	11,06,21,000	Adequate
2	2021-22	9,11,49,500	Adequate
3	2020-21	9,60,20,000	Adequate
4	2019-20	9,56,92,000	Adequate
5	2018-19	10,34,74,520	Adequate

10.2.2 Utilization of allocated Funds (15)

Utilization of allocated Funds:

The Principal of the College allocates funds. Department Heads / Section-In charge is informed to utilize the extent of funds allocated against their proposed budget. Major works like construction, up-gradation of existing infrastructure, procurement and maintenance of common utilities, housekeeping, procurement of furniture, etc. are controlled directly by the Principal. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables, etc. are initiated from the respective departments and the funds are released on a case by case basis from the accounts office of the college on approval by the Principal. During the last three years, the budget was utilized to meet expenses such as staff salary, infrastructure development, purchase of equipment, expenses towards consumables and contingencies, travel, etc.

Recurring and non-recurring expenditure is made in the following manner.-

- The requirement of purchase initiated by functional heads.
- It is further verified by the principal.
- On the basis of priority requirement quotations invited from a reputed supplier.
- Comparative statements are prepared and presented before the purchase committee.
- By considering the urgency of requirement and amount involved negotiations are called either before

  management or principal.
- After negotiations purchase is initiated by placing a purchase order or work order.
- When equipment or product is received the same is verified for quality and fulfilment of the requirement. Also if training or testing is required then the same is done by the respective functional head.
- On receipt of a satisfactory remark from the respective department, it is recorded in the inward register at the central store. The same is given to the respective department.

- After that bill along with material inward note is submitted to the account section for the payment purpose.
- Account section does the scrutiny of the document and on receiving the sanction of principal or management actual payment is made.

Table 10.2.2 Utilization of allocated Funds of Institute

Sr. No	Assessment Year	Allocated Budget	Utilized Budget	Utilized Percentage
1	2022-23	11,06,21,000.00	9,11,80,725.65	82.43
2	2021-22	9,11,49,500.00	8,31,08,233.00	91.18
3	2020-21	9,60,20,000.00	7,27,82,718.00	75.80
4	2019-20	9,56,92,000.00	7,47,23,655.43	78.09
5	2018-19	10,34,74,520.00	7,23,22,429.17	69.89

Note: Difference in allocated and utilised budget is more, since the institute prepares budget by considering bank loan instalment (Principle+ interest).But, in profit & loss statement only interest amount is reflected.

10.2.3 Availability of the audited statements on the institute's website (05)

Audited statements of financial years (2022-23, 2021-22, 2020-21, 2019-20, and 2018-19) are available on institute website.

Weblinks:

Audit report 2022-23 https://agce.edu.in/auditreport2022-23

Audit report 2021-22 https://agce.edu.in/auditreport2021-22

Audit report 2020-21 https://agce.edu.in/auditreport2020-21

Audit report 2019-20 https://agce.edu.in/auditreport2019-20

Audit report 2018-19 https://agce.edu.in/auditreport2018-19

10.3 Program Specific Budget Allocation, Utilization (30)

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3 CFY: (Current Financial Year),

CFYm1: (Current Financial Year minus 1),

CFYm2: (Current Financial Year minus 2) and

CFYm3: (Current Financial Year minus 3)

Table B.10.3a: CFY(2022-23)

(Amount) 2947466		Actual expenditure (till…): (Amount) 2743144		Total No. Of Students (355)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
406636	2540830	389484	2353660	7727

Table B.10.3a: CFYm1(2021-22)

(Amount) 1815056		Actual expenditure (till…): (Amount)1708234		Total No. Of Students (273)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
264370	1550686	250374	1457860	6257

Table B.10.3a: CFYm2(2020-21)

(Amount) 1027700		Actual expenditure (till…): (Amount)872970		Total No. Of Students (257)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
144700	883000	127270	745700	3397

Table B.10.3a: CFYm3(2019-20)

(Amount) 1554000		Actual expenditure (till…): (Amount) 1416918		Total No. Of Students (226)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
307000	1247000	289091	1127827	6270

Table B.10.3a: CFYm4(2018-19)

(Amount) 1555800		Actual expenditure (till…): (Amount) 1486086		Total No. Of Students (215)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
500000	1055800	90400	1395686	6492

Table B.10.3b

Items	Budgeted in 2022- 2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till	Budgeted in 2020-2021	Actual Expenses in 2020- 2021 till
Laboratory equipment	355000	342420	258858	243077	137400	124430
Software	25818	24200	0	0	0	0
Laboratory consumables	572840	531560	268446	245200	220000	141200
Maintenance and spares	927840	871400	764590	717150	281000	256400
R&D	112950	101400	69500	62170	18800	15600
Training and Travel	844900	780000	409850	397770	335000	308700
Miscellaneous expenses	82300	69300	38300	35570	28200	23800
Total	2947466	2743144	1809544	1700937	1020400	870130

Items	Budgeted in 2019- 2020	Actual Expenses in 2019- 2020 till	Budgeted in 2018- 2019	Actual Expenses in 2018- 2019 till
Laboratory equipment	185000	173000	93000	60300
Software	86000	82000	320000	0
Laboratory consumables	356000	321508	335000	446000
Maintenance and spares	431000	401700	409000	394299
R&D	70000	62919	39200	33000
Training and Travel	370000	324800	235000	458471
Miscellaneous expenses	20000	16900	37600	63916
Total	1518000	1382827	1468800	1455986

Items	Budgeted in 2019- 2020	Actual Expenses in 2019- 2020 till	Budgeted in 2018-2019	Actual Expenses in 2018- 2019 till
Laboratory equipment	216000	202900	118000	76000
Software	102000	96200	403000	0
Laboratory consumables	418000	377000	421000	562800
Maintenance and spares	505000	471100	516000	497100
R&D	81000	73400	49300	41600
Training and Travel	434000	380800	295000	577500
Miscellaneous expenses	23000	20900	47400	80600
Total	1779000	1622300	1849700	1835600

10.3.1 Adequacy of budget allocation (10)

During the assessment years, the institute allocated an adequate budget. Budget requirements under 'recurring' and 'non-recurring' heads are collected from all the departments and sanctions before the commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution. The management has been very efficient in doing this over the past several years.

10.3.1 Adequate budget allocation Mechanical Department

Sr. No	Assessment Year	Allocated Budget	Adequate/ Non-Adequate
1	2022-23	2233406	Adequate
2	2021-22	1775147	Adequate
3	2020-21	1207600	Adequate
4	2019-20	1821500	Adequate
5	2018-19	1959700	Adequate

10.3.2 Utilization of Allocated Funds

Utilization of allocated Funds:

The Principal of the College allocates funds. Department Heads / Section-In charge is informed to utilize the extent of funds allocated against their proposed budget. Major works like construction, up-gradation of existing infrastructure, procurement and maintenance of common utilities, housekeeping, procurement of furniture, etc. are controlled directly by the Principal. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables, etc. are initiated from the respective departments and the funds are released on a case by case basis from the accounts office of the college on approval by the Principal. During the last three years, the budget was utilized to meet expenses such as staff salary, infrastructure development, purchase of equipment, expenses towards consumables and contingencies, travel, etc.

Recurring and non-recurring expenditure is made in the following manner.-

- The requirement of purchase initiated by functional heads.
- It is further verified by the principal.
- On the basis of priority requirement quotations invited from a reputed supplier.
- Comparative statements are prepared and presented before the purchase committee.
- By considering the urgency of requirement and amount involved negotiations are called either before management or principal.
- After negotiations purchase is initiated by placing a purchase order or work order.
- When equipment or product is received the same is verified for quality and fulfilment of the requirement. Also if training or testing is required then the same is done by the respective functional head.
- On receipt of a satisfactory remark from the respective department, it is recorded in the inward register at the central store. The same is given to the respective department.

- After that bill along with material inward note is submitted to the account section for the payment purpose.

  Account section does the scrutiny of the document and on receiving the sanction of principal or management actual payment is made.

Table 10.3.2 Utilization of allocated Funds of Mechanical Department

Sr. No	Assessment Year	Allocated Budget	Utilized Budget	Utilized Percentage
1	2022-23	2233406	2078406	93.07
2	2021-22	1775147	1670686	94.12
3	2020-21	1207600	1032700	85.52
4	2019-20	1821500	1661100	91.19
5	2018-19	1959700	1873500	95.60

10.4 Library and Internet (20)

10.4.1 Quality of learning resources (hard/soft) (10)

A. Relevance of available learning resources including e-resources

Institute's central Library is one of the main support services of institute. The main aim of central library is to fulfil the information need of the institute community by providing them necessary information, knowledge, various services and access to e-resources. The Central Library is well equipped with unique collection of encyclopedia, handbooks, text books, reference books and journals as well as eBooks. It supports computerized operations and services. It has a collection of more than …documents which include books and bound volumes of periodicals. The collection is mainly strong in science & technology. Following is summary of books & journal.

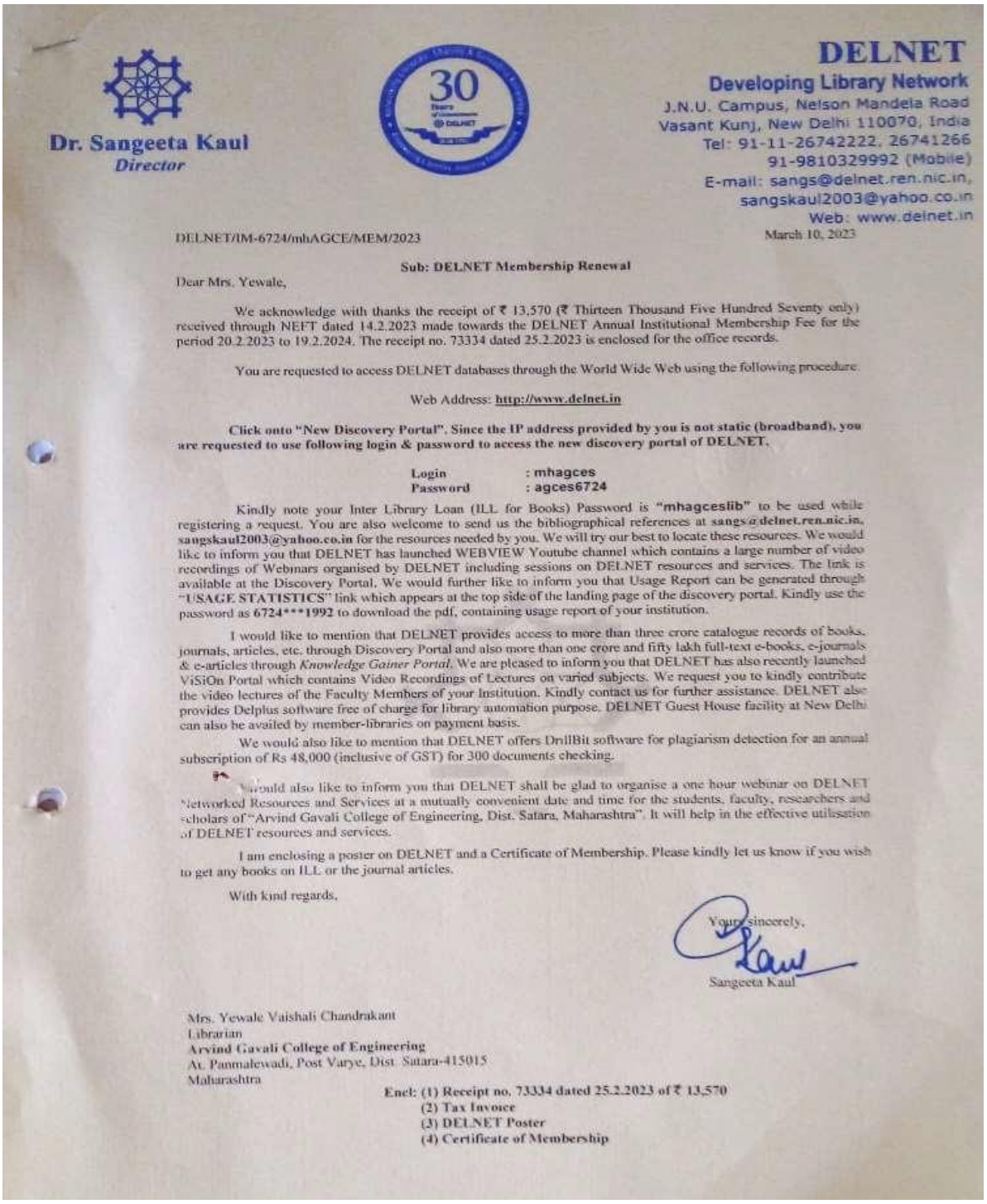
Table B 10.4.1.a Summary of Books and Journals

Sr. No	Branch	Titles	Volumes	National Journals	International Journals(online)
1	Computer Science & Engineering.	832	3506	16	160
2	Electronics & Telecommunication Engineering.	754	3869	13	162
3	Civil Engineering	601	3265	13	273
4	Electrical Engineering	669	3107	5	61
5	Mechanical Engineering	693	4525	16	190
6	Core Science	238	2828	3	65

Total	**3787**	**21100**	**66**	**911**

Table B: 10.4.b Purchase records of E-Resources

Year of Purchase	**Particulars**
2022-23	DELNET
2021-22	DELNET
2020-21	DELNET
2019-20	DELNET
2018-19	DELNET



Dr. Sangeeta Kaul
Director

DELNET
Developing Library Network
J.N.U. Campus, Nelson Mandela Road
Vasant Kunj, New Delhi 110070, India
Tel: 91-11-26742222, 26741266
91-9810329992 (Mobile)
E-mail: sangs@delnet.ren.nic.in,
sangskaul2003@yahoo.co.in
Web: www.delnet.in

DELNET/IM-6724/mhAGCE/MEM/2023

March 10, 2023

Sub: DELNET Membership Renewal

Dear Mrs. Yewale,

We acknowledge with thanks the receipt of ₹ 13,570 (₹ Thirteen Thousand Five Hundred Seventy only) received through NEFT dated 14.2.2023 made towards the DELNET Annual Institutional Membership Fee for the period 20.2.2023 to 19.2.2024. The receipt no. 73334 dated 25.2.2023 is enclosed for the office records.

You are requested to access DELNET databases through the World Wide Web using the following procedure.

Web Address: **http://www.delnet.in**

Click onto "New Discovery Portal". Since the IP address provided by you is not static (broadband), you are requested to use following login & password to access the new discovery portal of DELNET.

Login : mhagces
Password : agces6724

Kindly note your Inter Library Loan (ILL for Books) Password is **"mhagceslib"** to be used while registering a request. You are also welcome to send us the bibliographical references at **sangs@delnet.ren.nic.in, sangskaul2003@yahoo.co.in** for the resources needed by you. We will try our best to locate these resources. We would like to inform you that DELNET has launched WEBVIEW Youtube channel which contains a large number of video recordings of Webinars organised by DELNET including sessions on DELNET resources and services. The link is available at the Discovery Portal. We would further like to inform you that Usage Report can be generated through "**USAGE STATISTICS**" link which appears at the top side of the landing page of the discovery portal. Kindly use the password as **6724***1992** to download the pdf, containing usage report of your institution.

I would like to mention that DELNET provides access to more than three crore catalogue records of books, journals, articles, etc. through Discovery Portal and also more than one crore and fifty lakh full-text e-books, e-journals & e-articles through *Knowledge Gainer Portal*. We are pleased to inform you that DELNET has also recently launched ViSiOn Portal which contains Video Recordings of Lectures on varied subjects. We request you to kindly contribute the video lectures of the Faculty Members of your Institution. Kindly contact us for further assistance. DELNET also provides Delplus software free of charge for library automation purpose. DELNET Guest House facility at New Delhi can also be availed by member-libraries on payment basis.

We would also like to mention that DELNET offers DrillBit software for plagiarism detection for an annual subscription of Rs 48,000 (inclusive of GST) for 300 documents checking.

We would also like to inform you that DELNET shall be glad to organise a one hour webinar on DELNET Networked Resources and Services at a mutually convenient date and time for the students, faculty, researchers and scholars of "Arvind Gavali College of Engineering, Dist. Satara, Maharashtra". It will help in the effective utilisation of DELNET resources and services.

I am enclosing a poster on DELNET and a Certificate of Membership. Please kindly let us know if you wish to get any books on ILL or the journal articles.

With kind regards,

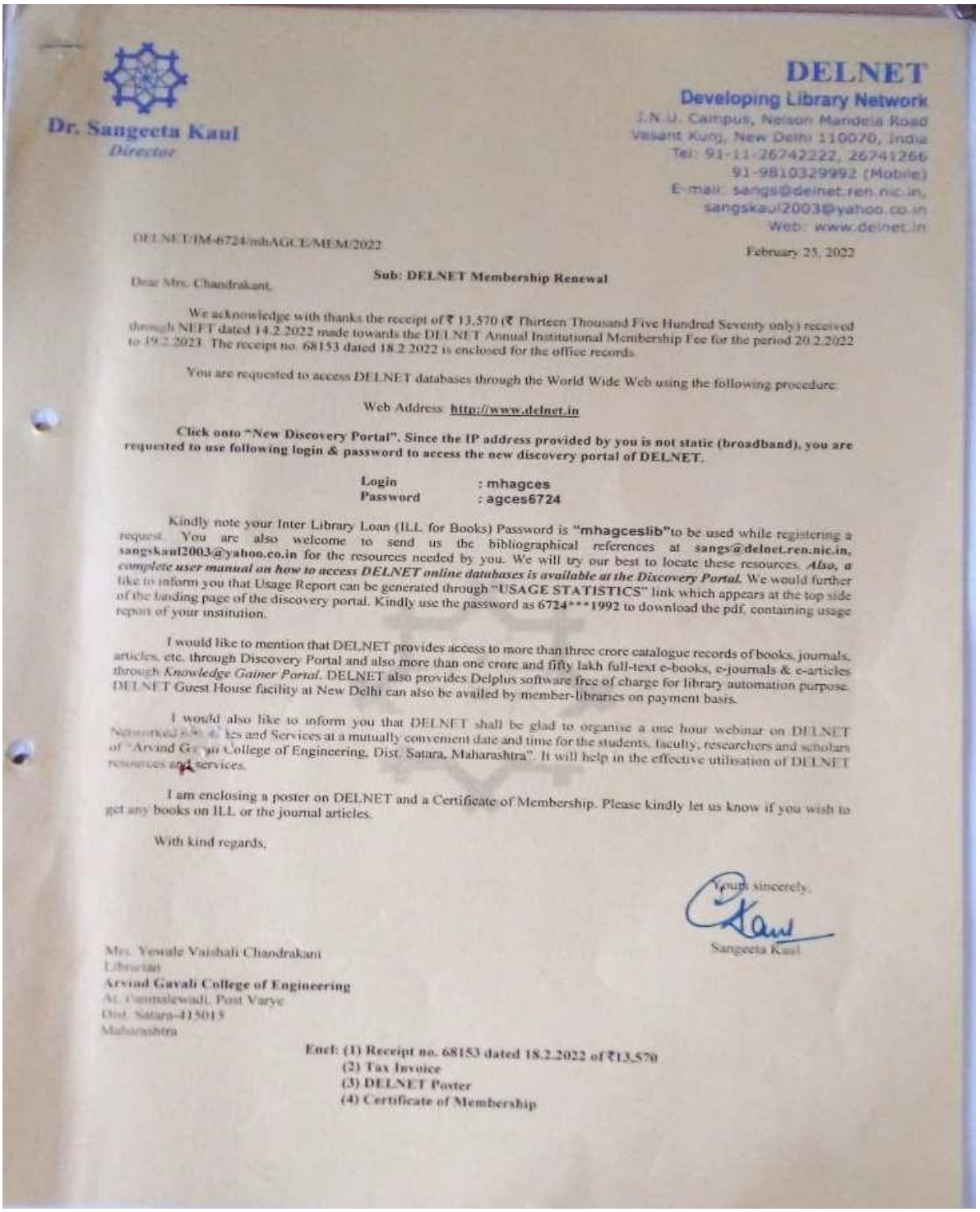
Yours sincerely,

Sangeeta Kaul

Mrs. Yewale Vaishali Chandrakant
Librarian
Arvind Gavali College of Engineering
At. Panmalewadi, Post Varye, Dist. Satara-415015
Maharashtra

Encl: (1) Receipt no. 73334 dated 25.2.2023 of ₹ 13,570
(2) Tax Invoice
(3) DELNET Poster
(4) Certificate of Membership

Fig 10.4a DELNET e Resource subscription 2023-24



Dr. Sangeeta Kaul
Director

DELNET
Developing Library Network
J.N.U. Campus, Nelson Mandela Road
Vasant Kunj, New Delhi 110070, India
Tel: 91-11-26742222, 26741266
91-9810329992 (Mobile)
E-mail: sangs@delnet.ren.nic.in,
sangskaul2003@yahoo.co.in
Web: www.delnet.in

DELNET/IM-6724/mhAGCE/MEM/2022

February 25, 2022

Sub: DELNET Membership Renewal

Dear Mrs. Chandrakant,

We acknowledge with thanks the receipt of ₹ 13,570 (₹ Thirteen Thousand Five Hundred Seventy only) received through NEFT dated 14.2.2022 made towards the DELNET Annual Institutional Membership Fee for the period 20.2.2022 to 19.2.2023. The receipt no. 68153 dated 18.2.2022 is enclosed for the office records.

You are requested to access DELNET databases through the World Wide Web using the following procedure:

Web Address: **http://www.delnet.in**

Click onto "New Discovery Portal". Since the IP address provided by you is not static (broadband), you are requested to use following login & password to access the new discovery portal of DELNET.

Login : mhagces
Password : agces6724

Kindly note your Inter Library Loan (ILL for Books) Password is **"mhagceslib"** to be used while registering a request. You are also welcome to send us the bibliographical references at **sangs@delnet.ren.nic.in, sangskaul2003@yahoo.co.in** for the resources needed by you. We will try our best to locate these resources. ***Also, a complete user manual on how to access DELNET online databases is available at the Discovery Portal.*** We would further like to inform you that Usage Report can be generated through **"USAGE STATISTICS"** link which appears at the top side of the landing page of the discovery portal. Kindly use the password as **6724***1992 to download the pdf. containing usage report of your institution.

I would like to mention that DELNET provides access to more than three crore catalogue records of books, journals, articles, etc. through Discovery Portal and also more than one crore and fifty lakh full-text e-books, e-journals & e-articles through *Knowledge Gainer Portal*. DELNET also provides Delplus software free of charge for library automation purpose. DELNET Guest House facility at New Delhi can also be availed by member-libraries on payment basis.

I would also like to inform you that DELNET shall be glad to organise a one hour webinar on DELNET Networked Electronic Resources and Services at a mutually convenient date and time for the students, faculty, researchers and scholars of "Arvind Gavali College of Engineering, Dist. Satara, Maharashtra". It will help in the effective utilisation of DELNET resources and services.

I am enclosing a poster on DELNET and a Certificate of Membership. Please kindly let us know if you wish to get any books on ILL or the journal articles.

With kind regards,

Yours sincerely,

Sangeeta Kaul

Mrs. Yewale Vaishali Chandrakant
Librarian
Arvind Gavali College of Engineering
At. Camalewadi, Post Varye
Dist. Satara-415015
Maharashtra

Encl: (1) Receipt no. 68153 dated 18.2.2022 of ₹13,570
(2) Tax Invoice
(3) DELNET Poster
(4) Certificate of Membership

Fig 10.4b DELNET e Resource subscription 2022-23

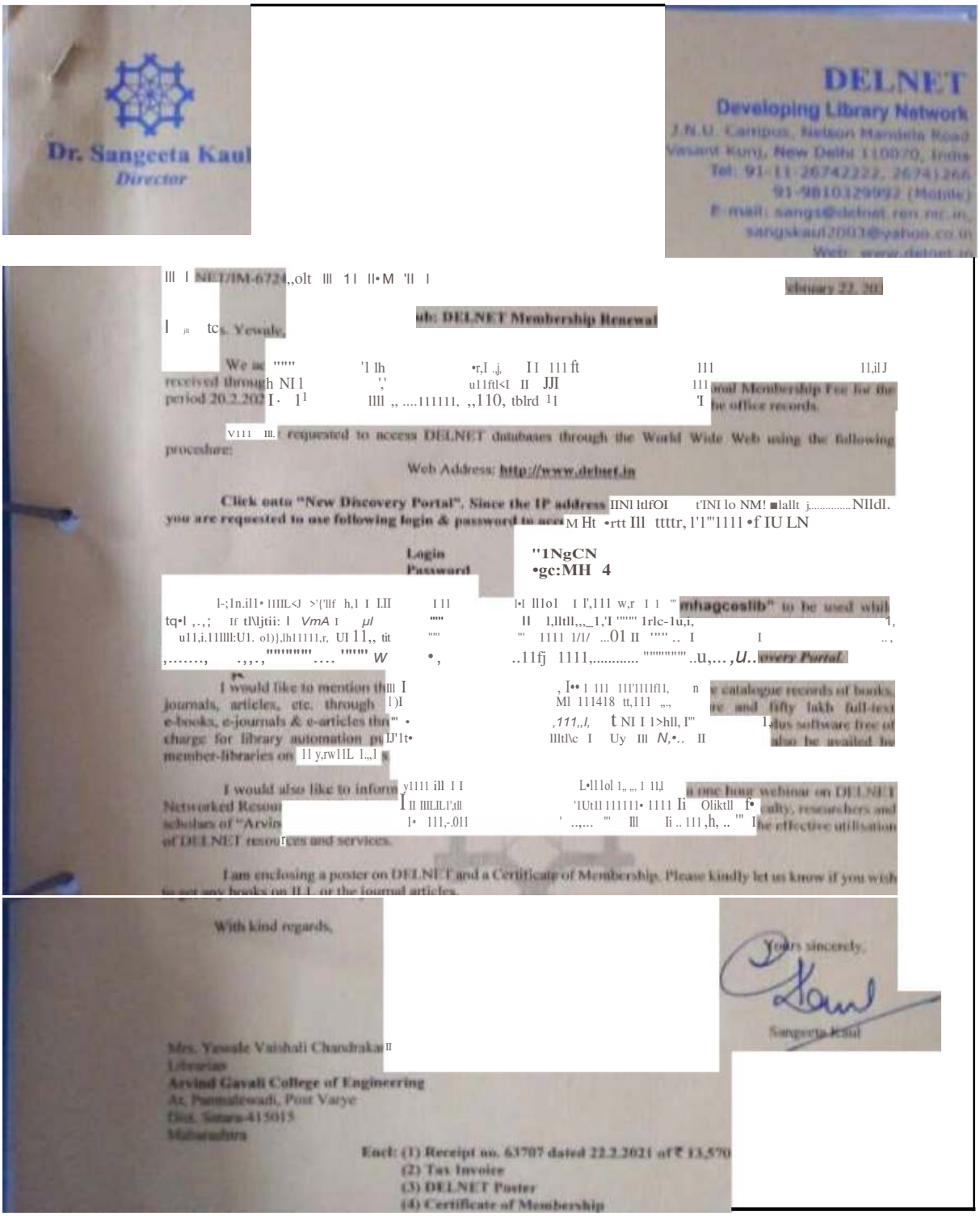
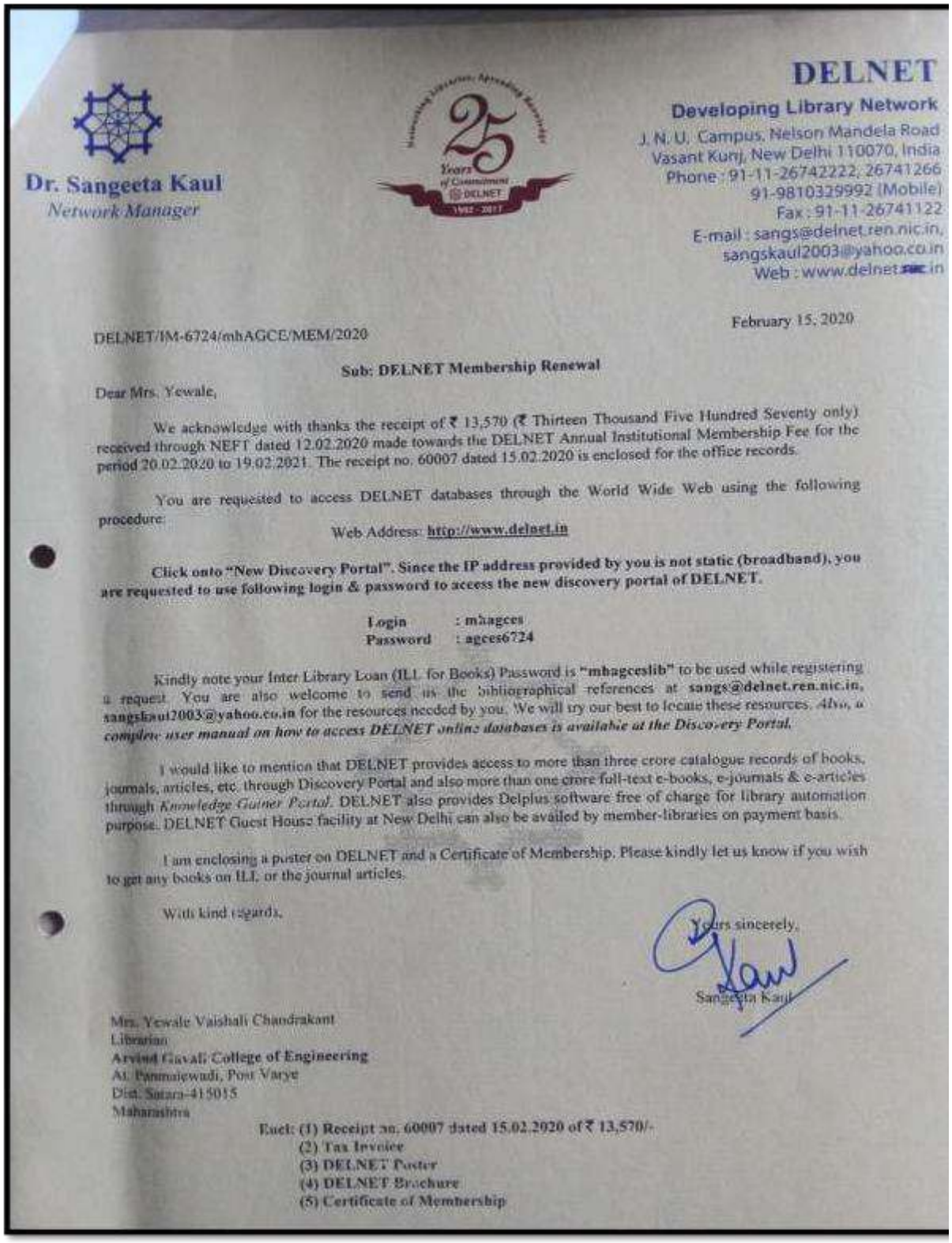

Dr. Sangeeta Kaul
Director
DELNET
Developing Library Network
J.N.U. Campus, Nelson Mandela Road
Vasant Kunj, New Delhi 110070, India
Tel: 91-11-26742222, 26741266
91-9810329992 (Mobile)
E-mail: sangs@delnet.ren.nic.in,
sangskaul2003@yahoo.co.in
Web: www.delnet.in
ub: DELNET Membership Renewal
tcs. Yewale,
We ac
received through NI 1
period 20.2.202
requested to access DELNET databases through the World Wide Web using the following
procedure:
Web Address: http://www.delnet.in
Click onto "New Discovery Portal". Since the IP address
you are requested to use following login & password to acc
Login
Password
"1NgCN
•gc:MH 4
mhagcoslib" to be used whil
journals, articles, etc. through
e-books, e-journals & e-articles thr
charge for library automation pa
member-libraries on
I would also like to inform
Networked Resou
scholars of "Arvin
of DELNET resou
I am enclosing a poster on DELNET and a Certificate of Membership. Please kindly let us know if you wish
With kind regards,
Yours sincerely,
Sangeeta Kaul
Mrs. Yewale Vaishali Chandraka
Librarian
Arvind Gavali College of Engineering
At. Panmalewadi, Post Varye
Dist. Satara-415015
Maharashtra
Encl: (1) Receipt no. 63707 dated 22.2.2021 of ₹ 13,570
(2) Tax Invoice
(3) DELNET Poster
(4) Certificate of Membership

Fig 10.4c DELNET e Resource subscription 2021-22



DELNET
Developing Library Network
J. N. U. Campus, Nelson Mandela Road
Vasant Kunj, New Delhi 110070, India
Phone : 91-11-26742222, 26741266
91-9810329992 (Mobile)
Fax : 91-11-26741122
E-mail : sangs@delnet.ren.nic.in,
sangskaul2003@yahoo.co.in
Web : www.delnet.nic.in

Dr. Sangeeta Kaul
Network Manager

DELNET/IM-6724/mhAGCE/MEM/2020

February 15, 2020

Sub: DELNET Membership Renewal

Dear Mrs. Yewale,

We acknowledge with thanks the receipt of ₹ 13,570 (₹ Thirteen Thousand Five Hundred Seventy only) received through NEFT dated 12.02.2020 made towards the DELNET Annual Institutional Membership Fee for the period 20.02.2020 to 19.02.2021. The receipt no. 60007 dated 15.02.2020 is enclosed for the office records.

You are requested to access DELNET databases through the World Wide Web using the following procedure:

Web Address: **http://www.delnet.in**

Click onto "New Discovery Portal". Since the IP address provided by you is not static (broadband), you are requested to use following login & password to access the new discovery portal of DELNET.

Login : mhagces
Password : agces6724

Kindly note your Inter Library Loan (ILL for Books) Password is **"mhagceslib"** to be used while registering a request. You are also welcome to send us the bibliographical references at **sangs@delnet.ren.nic.in, sangskaul2003@yahoo.co.in** for the resources needed by you. We will try our best to locate these resources. *Also, a complete user manual on how to access DELNET online databases is available at the Discovery Portal.*

I would like to mention that DELNET provides access to more than three crore catalogue records of books, journals, articles, etc. through Discovery Portal and also more than one crore full-text e-books, e-journals & e-articles through *Knowledge Gainer Portal*. DELNET also provides Delplus software free of charge for library automation purpose. DELNET Guest House facility at New Delhi can also be availed by member-libraries on payment basis.

I am enclosing a poster on DELNET and a Certificate of Membership. Please kindly let us know if you wish to get any books on ILL or the journal articles.

With kind regards,

Yours sincerely,

Sangeeta Kaul

Mrs. Yewale Vaishali Chandrakant
Librarian
Arvind Gavali College of Engineering
At. Panmalewadi, Post Varye
Dist. Satara-415015
Maharashtra

Encl: (1) Receipt no. 60007 dated 15.02.2020 of ₹ 13,570/-
(2) Tax Invoice
(3) DELNET Poster
(4) DELNET Brochure
(5) Certificate of Membership

Fig 10.4d DELNET e Resource subscription 2020-21

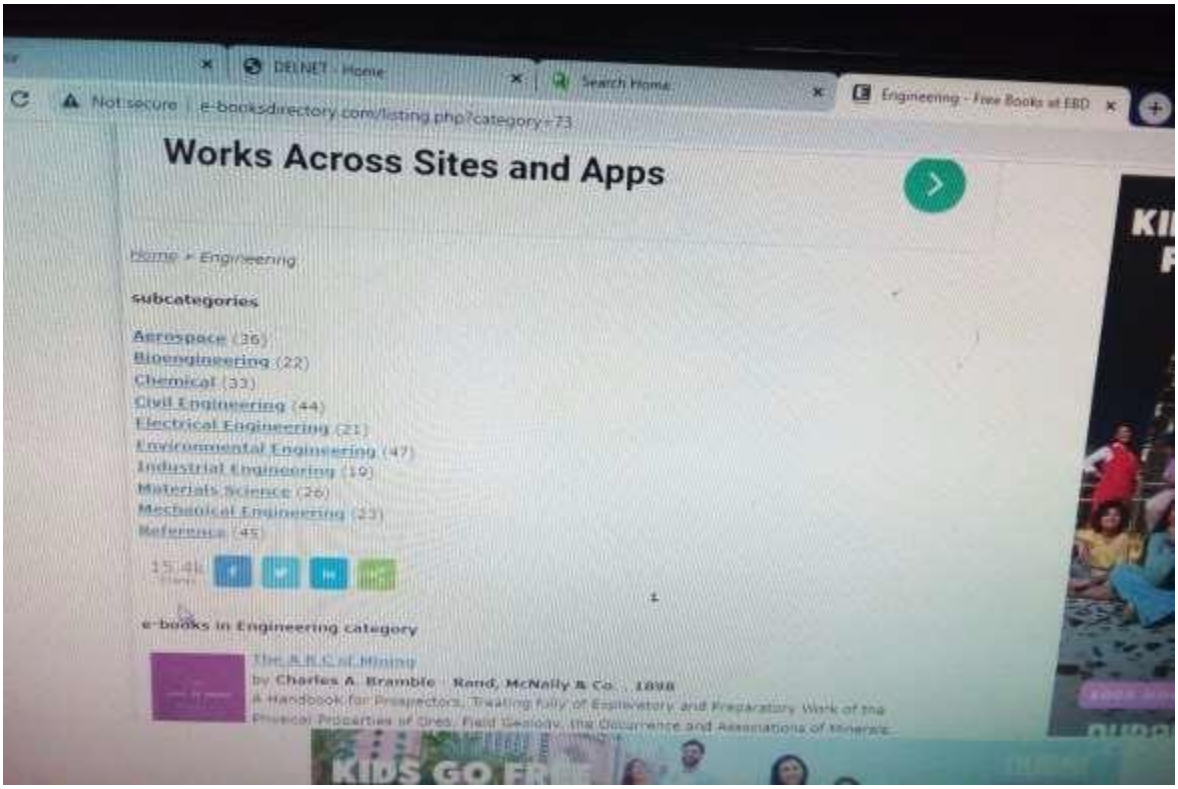


Fig 10.4e DELNET e Resource e Journal details

Fig 10.4f Students using DELNET e Resource e Journal details

Table 10.4.1. C Summary of E resources.

Sr. No.	Other E-Recourses& Particulars
1	DELNET
2	NDL
3	Spoken Tutorials
4	Swayam NPTEL Local Chapter

B. Accessibility to students:

AGCE is committed to providing equal access to library resources, services, and facilities for all library users. It is a priority for the AGCE Library staff to assist with the retrieval of books and with the use of electronic and e resources. All the students and staff members can assess their library account through KOHA Software, avail e-books through their individual ID and password provided to them, through a static IP address 103.159.152.198:8080.

Table B 10.4.1.d Library service details

Library Services	**Yes**
Carpet area of library (in sq. mtr)	443 sqm
Number of seats in	159
Number of users (issue book) per day	25 to 30 averages
Number of users (reading space) per day	76
Timings: On working day On holiday	8.00 am to 7.30 pm.
Number of library staff	3
Number of library staff with degree in Library Management	2
Library Management Computerization for search, indexing, issue/return records	KOHA
Bar coding used	YES
Library additional services	Internet, Journals, Technical Magazine, Conference Proceedings, Newspaper, Photocopy, Printing & Scanning Soft copies of University Question papers & Syllabus shared through email Extended reading room facility during exam period Orientation to newly admitted students.

	Online public access catalogue.

C. Support to students for self- learning activities:

AGCE library helps its students in self-learning activities in following way:

1. By providing facilities likes computers, internet and e-resources. The library has separate section where 20 computers with high speed internet are available to provide e-resources facilities to the student & faculty members. Users may access, read or download the e-resources e.g. e-books, e-journals, e-magazine, e-newspaper etc.
2. In addition to this, users may watch NPTEL video lectures of their interest here, which have been prepared by eminent professors of IITs &IISc. MIT library.
3. The SWAYAM PRABHA is a group of 32 DTH channels devoted to telecasting of high quality educational programmes on 24X7 basis using the GSAT 15 satellite. Every day, there are new content for at least (4) hours which would be repeated 5 more times in a day, allowing the students to choose the time of their convenience. The channels are uplinked from BISAG, Gandhinagar. The contents are provided by NPTEL, IITs, UGC, CEC, IGNOU, NCERT and NIOS.
4. One more important thing here is OPAC (Online Public Access Catalogue). It allows to the users to know about the library holding their account such as dues on his/her account, due date for returning material etc. The users may also access institutional repository. In this centre where they can found project report, old question papers, institute magazines/ journals, syllabus, and many more institute publications.

In addition to above, users can access the NDL (National Digital Library of India), which is very useful for students, faculty members and researchers. Here, they can search e-books, article, audio lecture video lecture, question paper and many more materials.

10.4.2 Internet (10)

Table 10.4.2 Internet information of institute

Name of the Internet provider	Neha Infonet, Satara
Available band width	300 Mbps
Wi-Fi availability	Yes, All College Campus & Hostel Bill and Specification is attached
Internet access in labs, classrooms, library and offices of all Departments	Yes, Internet access is available in every laboratory and department Network diagram is attached
Security arrangements (Firewall)	Microtec layer 3 Manageable Switch is used to control every Internet user

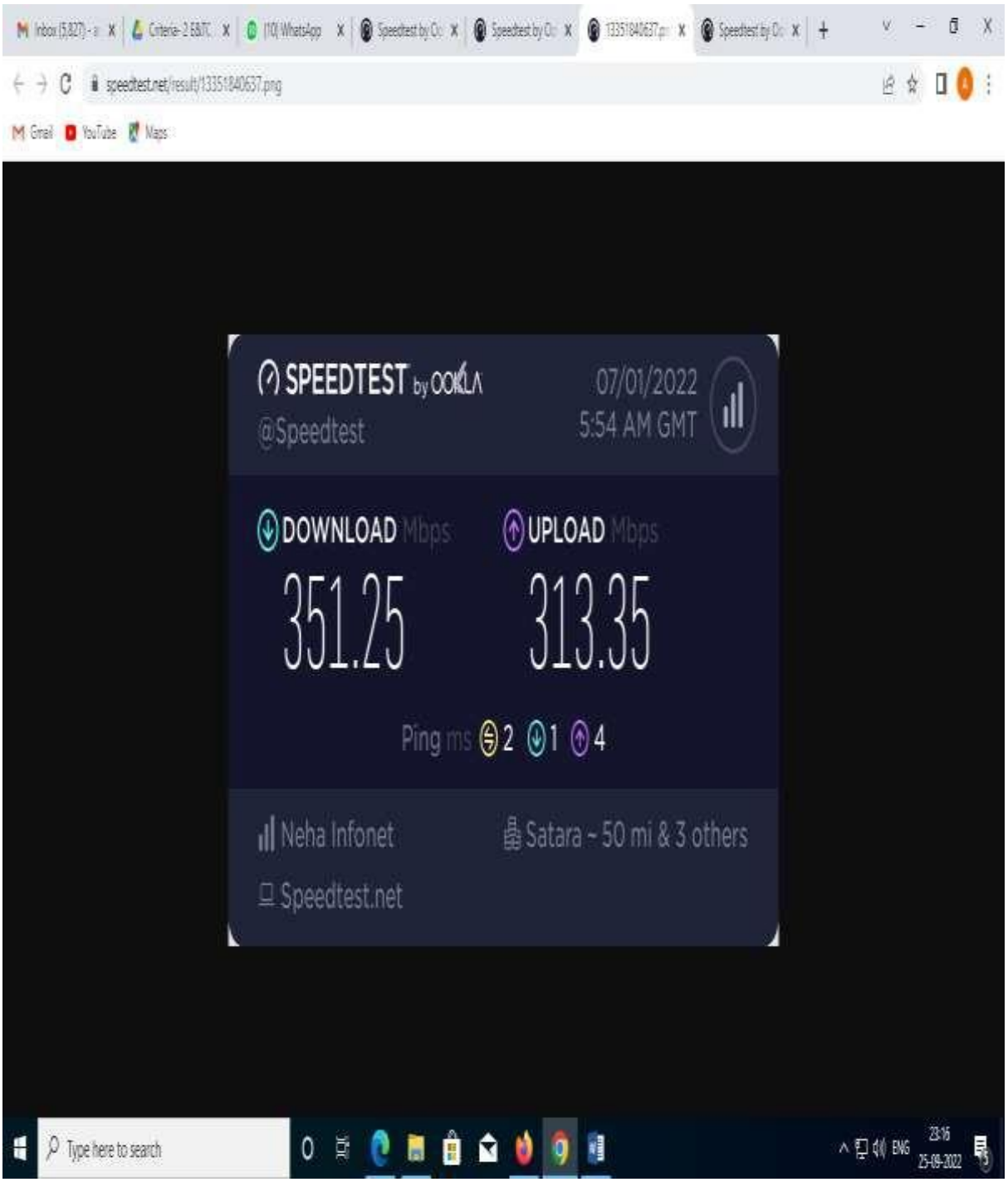


Fig 10.4.2.a Available band width: Speed Test 300 MBPS

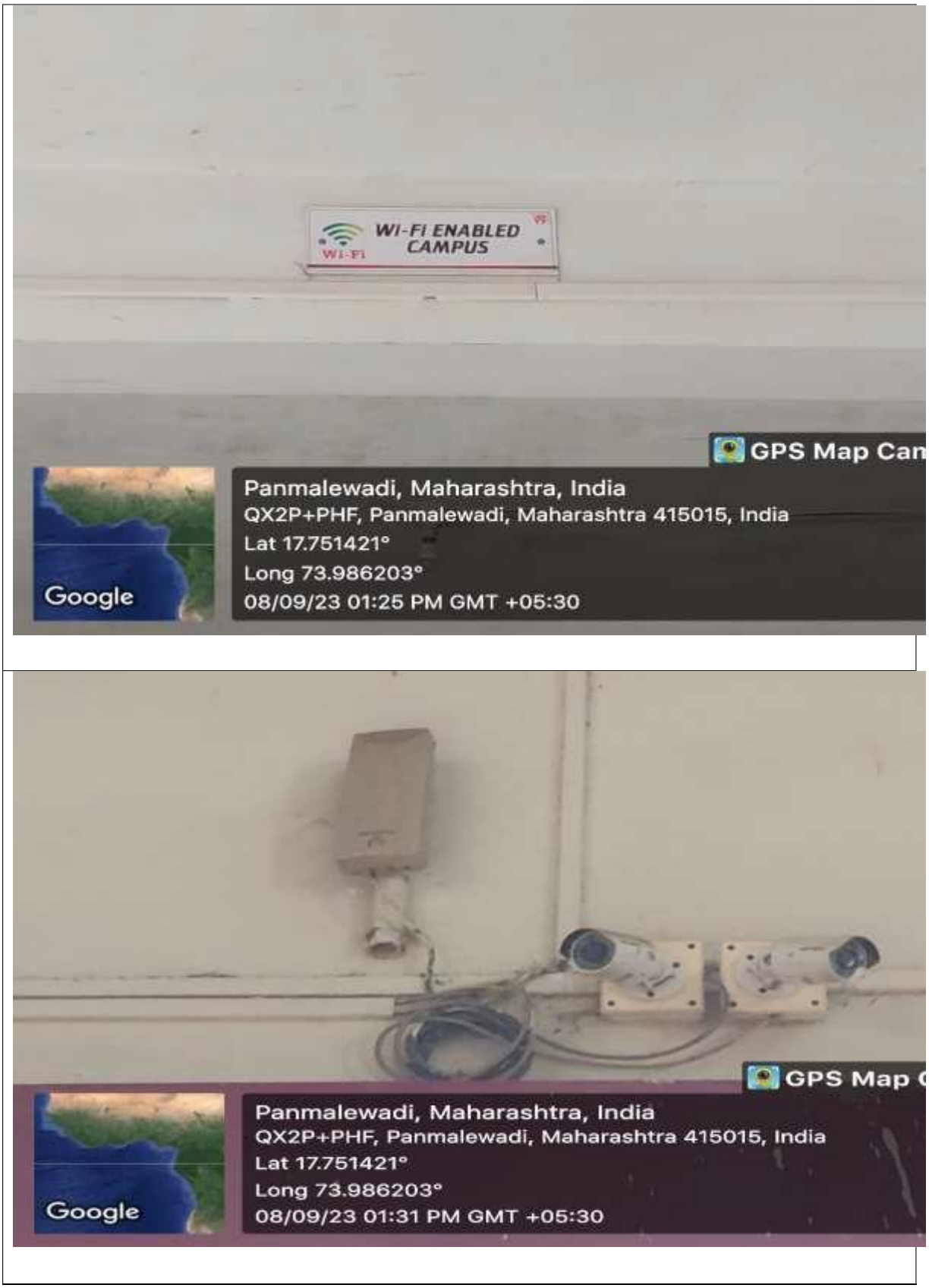


Fig 10.4.2.b Wi-fi facility available at institute

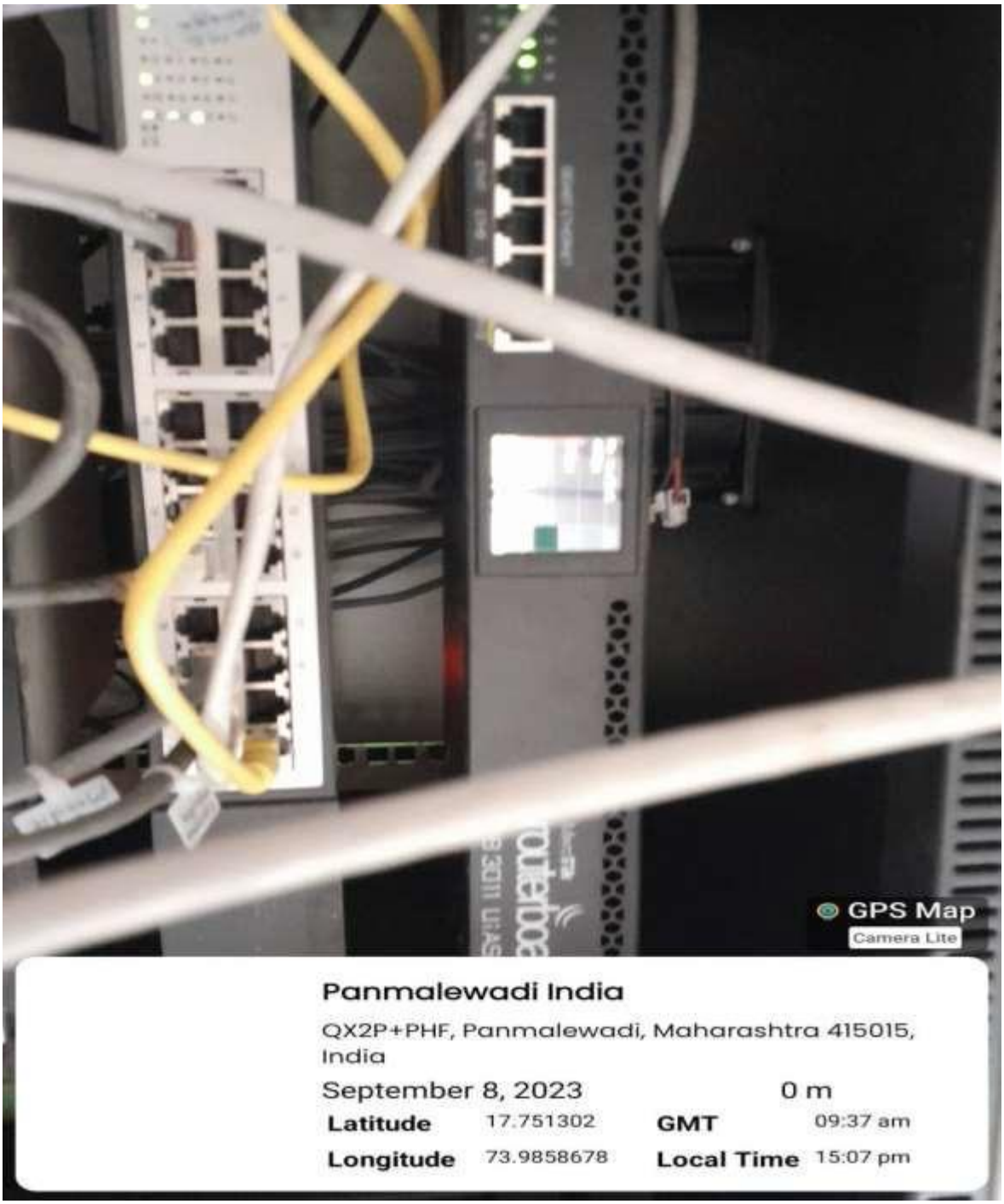


Fig 10.4.2.c Microtec layer 3 Manageable Switch