



**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 Civil Engineering

CRITERION 01	Vision, Mission and Program Educational Objectives	60
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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 develop and educate value based knowledge in civil engineering to meet the global challenges for overall development

MISSION of Department

M1: To impart essential technical knowledge and competency among students.

M2: To enhance innovative approaches towards creativity.

M3: To inculcate the values for the well-being of environment and society.

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

The Program Educational Objectives of Civil Engineering program is listed below:

PEO 1: The graduates will be able to solve civil engineering problems by applying basic knowledge of science and technology

PEO 2: The graduates will be able to develop solutions using modern engineering tools and techniques in civil engineering to solve industry and society based problems.

PEO 3: The graduates will be able to pursue lifelong learning to maintain the pace with developments in technology.

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 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)
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	2. Department Newsletter, Course Manuals and Laboratory Manuals, Faculty Course File, Information Brochures, Event& industrial visit reports, Academic diary, Internal Test Assessment book. 3. In digital form, the statements are published through Institute website, Email, social media, Screen saver, Event Presentations, CANVA platform.
Students	Internal	Responsible for creating institute reputation & outcome.	

Employers	External	Employing graduates and making an assessment on competence and employability	4. The dissemination is observed through online/offline mode such as induction programs, counseling round, administrative and stake holders meeting.
Industry	External	Employer as well as participant in curriculum development and industry – institute activities.	
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 2: Vision, Mission & PEOs are Published & Disseminated

Sl.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		√

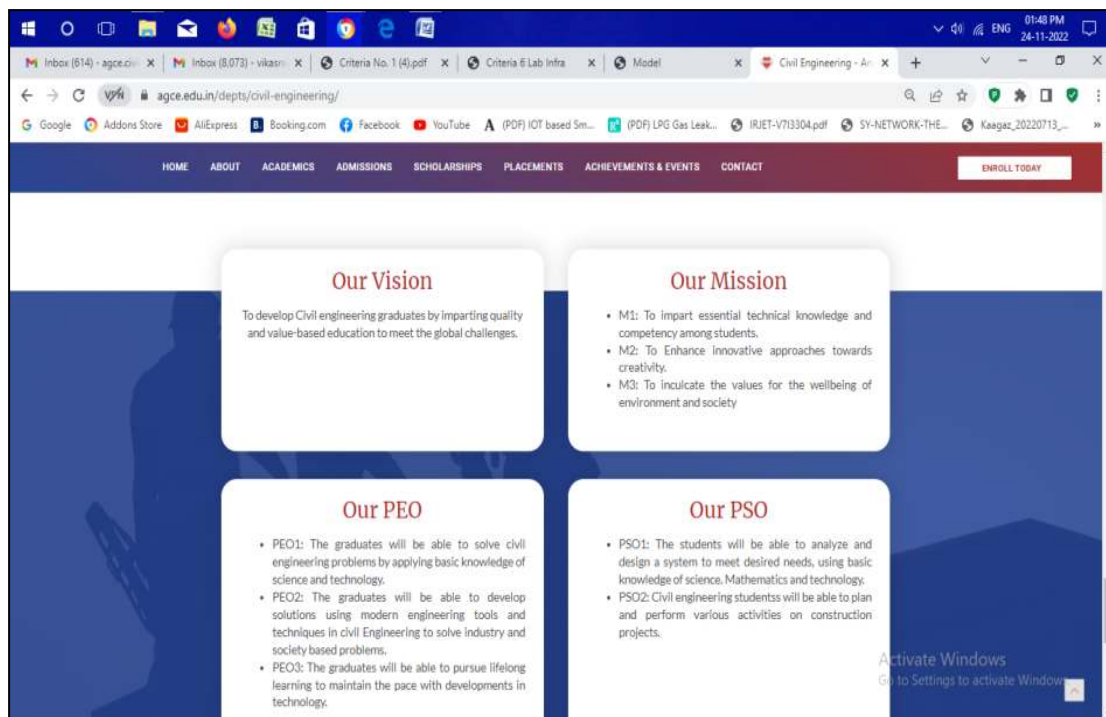


Fig.1.3 a Screenshot of Vision- Mission & PEOs disseminated on Website

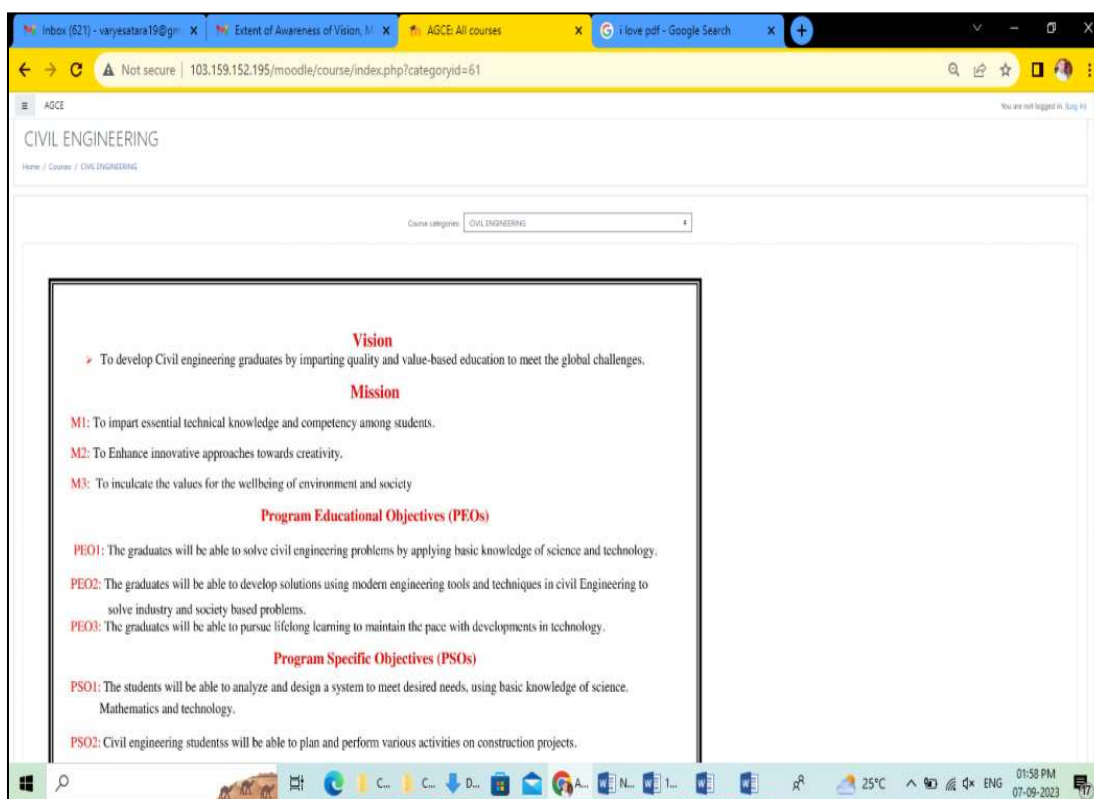


Fig.1.3 b Screenshot of Vision, Mission and PEOs disseminated on MOODLE

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



Fig.1.3 c 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.

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

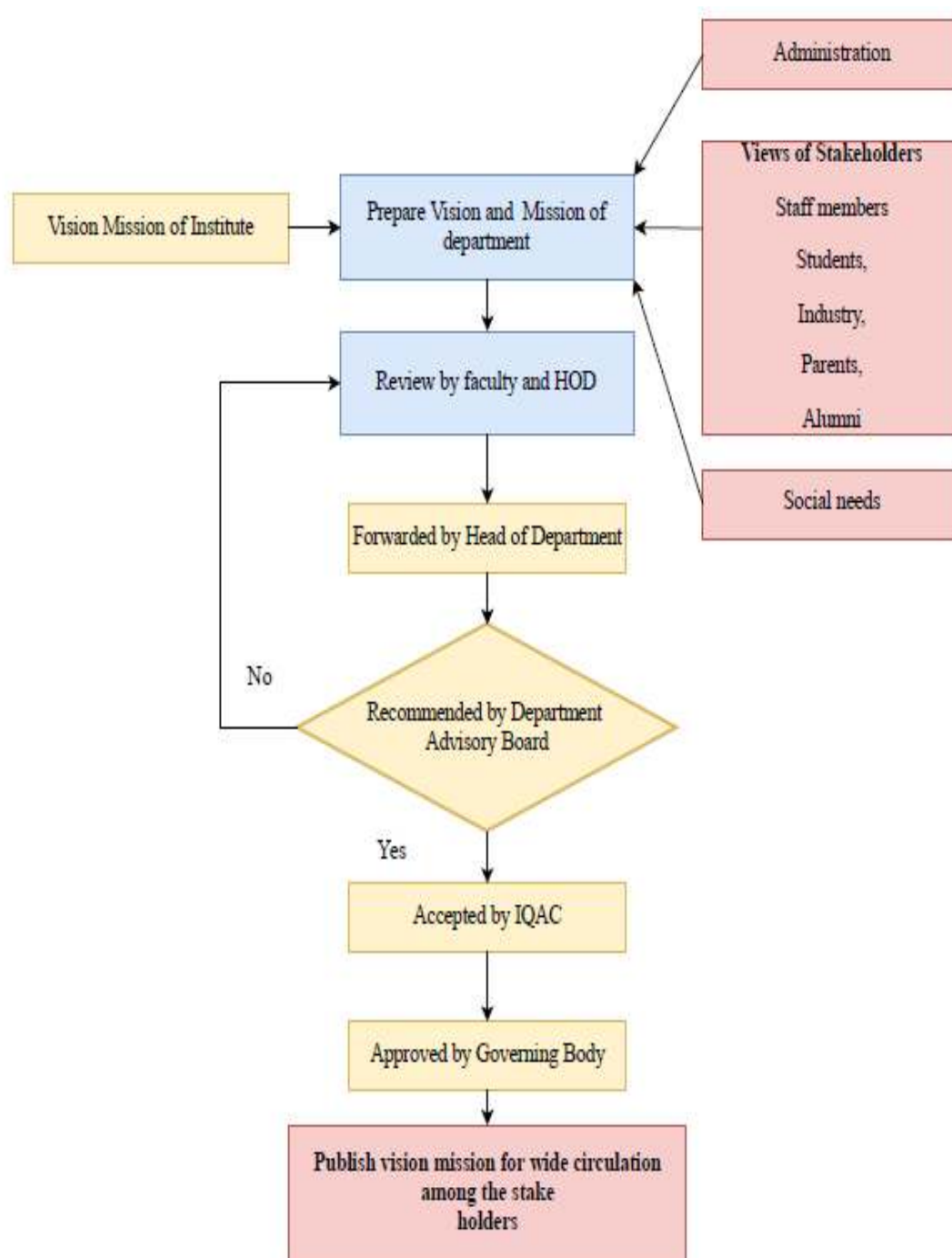


Figure 1.4 a: Process of defining the Vision & Mission of Department

- **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 stakeholders 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.
- **Step1:** 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.
- **Step2:** 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.
- **Step3:** 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.

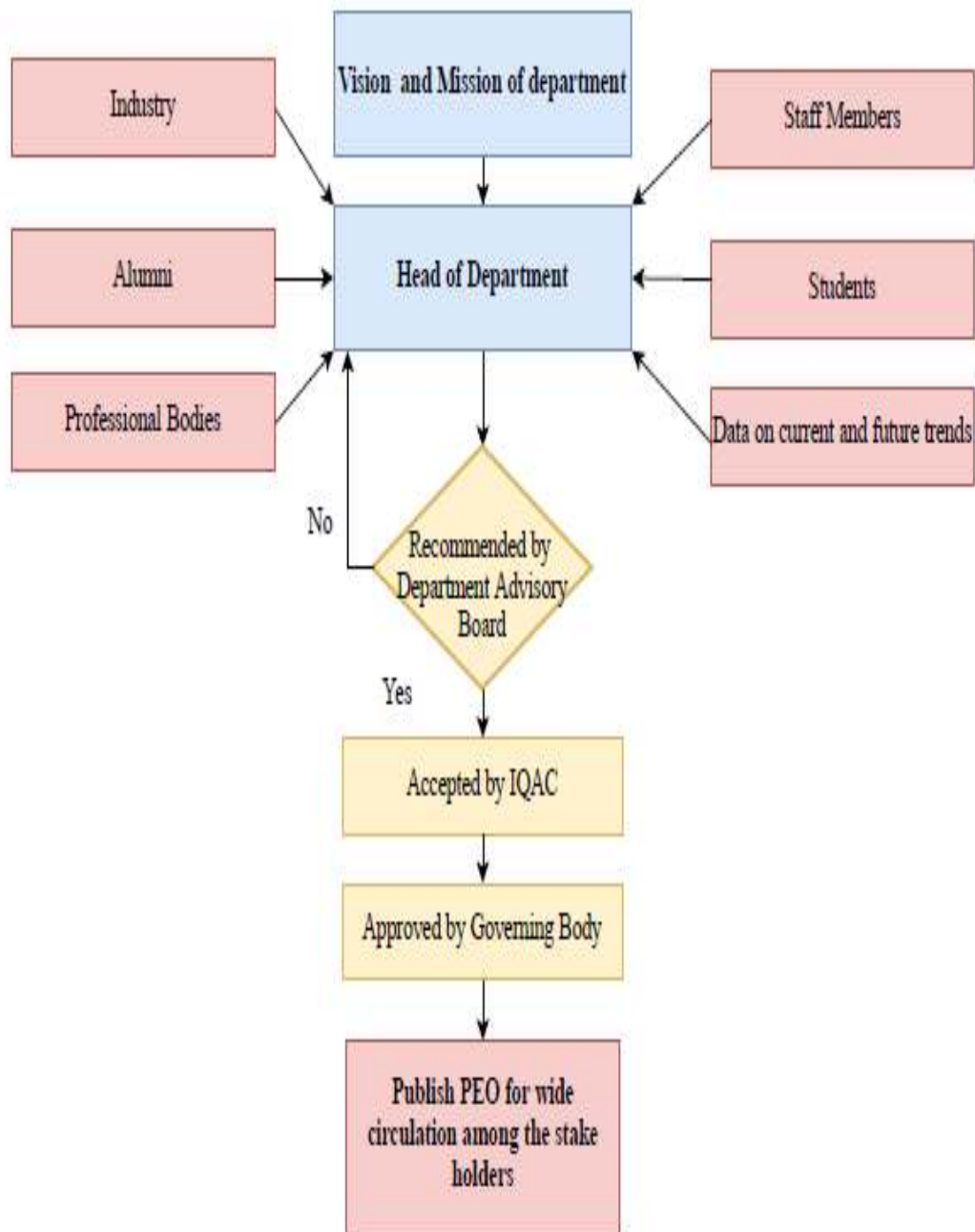


Figure 1.4 b: Process of defining the Program Educational Outcome (PEOs) of Department

- **Process of Defining the Program Educational Outcomes (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 figure 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.

1.5. Establish consistency of PEOs with Mission of the Department (15)
(Generate a “Mission of the Department – PEOs matrix” with justification and rationale Of the mapping)

The Program Educational Objectives are consistent with the Mission statement of the department which is stated in following table 3.

PEO Statements	M1	M2	M3
The graduates will be able to solve civil engineering problems by applying basic knowledge of science and technology	3	2	1
The graduates will be able to develop solutions using modern engineering tools and techniques in civil engineering to solve industry and society based problems.	2	3	2
The graduates will be able to pursue lifelong learning to maintain the pace with developments in technology.	1	2	3

	M1	M2	M3	
PEO Statements	M1: To impart essential technical knowledge and competency among students.	M2: To enhance innovative approaches towards creativity	M3: To inculcate the values for the well-being of environment and society	
PEO1: The graduates will be able to solve civil engineering problems by applying basic knowledge of science and technology	3	2	1	M1 substantially correlates with PEO1 as essential technical knowledge is based on fundamental concepts in Engineering and science where students solve the technical problems through projects.

				M2 moderately correlates with PEO1 as innovations are based on basics of science and technologies.
				M3 slightly correlates with PEO1 since it encourages respect towards the society and environment. MOU with various professional bodies adds certain values 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 in civil engineering to solve industry and society based problems	2	3	2	M1 moderately correlates with PEO2 as it emphasizes on enriching academic competency however the PEO2 focuses on applying modern engineering tools for solving real world problem.
				M2 substantially correlates with PEO2 as it deals with the innovation and creativity to satisfy industrial and societal requirements

				M3 moderately correlates with PEO2 as it provides an opportunity to solve industry and society based problems by considering welfare values related to society.
PEO3: The graduates will be able to pursue lifelong learning to maintain the pace with developments in technology	1	2	3	M1 slightly correlates with PEO3 as it emphasizes on technical knowledge, as the PEO3 focuses on developments and trends in the technology during course of learning.
				M2 moderately correlates with PEO3 as students acquire knowledge for creation and innovations.
				M3 substantially correlates with PEO3 as it deals with lifelong learning and keeping pace with the day-to-day developments taking place in technology.

	M1 To impart essential technical knowledge and competency among students.	M2 To enhance innovative approaches towards creativity.	M3 To inculcate the values for the well-being of environment and society.
PEO-1 The graduates will be able to solve civil engineering problems by applying basic knowledge of science and technology	3 PEO- Basic Knowledge of Science & Technology M- Technical Knowledge	2 PEO- Solving Civil Engineering Problems M- Innovative approaches	1 PEO- Applying Basic Knowledge of Science M- Well Being Environment
PEO-2 The graduates will be able to develop solutions using modern engineering tools and techniques in civil engineering to solve industry and society based problems.	2 PEO- Techniques in Civil Engineering M- Technical Knowledge	3 PEO- Develop Solutions M- Innovative Approaches	2 PEO- Society Based Problems M- well-being of environment and society
PEO-3 The graduates will be able to pursue lifelong learning to maintain the pace with developments in technology.	1 PEO- Developments in Technology M- Technical Knowledge & Competency	2 PEO- Lifelong Learning M- Creativity	3 PEO- Maintain the Pace M- Inculcate the Value

PEOs	Mission Component
PEO-1 The graduates will be able to solve civil engineering problems by applying basic knowledge of science and technology	M1 - To impart essential technical knowledge and competency among students
	M2 - To enhance innovative approaches towards creativity.
	M3 - To inculcate the values for the well-being of environment and society.
PEO-2 The graduates will be able to develop solutions using modern engineering tools and techniques in civil engineering to solve industry and society based problems.	M1 - To impart essential technical knowledge and competency among students
	M2 - To enhance innovative approaches towards creativity.
	M3 - To inculcate the values for the well-being of environment and society.
PEO-3 The graduates will be able to pursue lifelong learning to maintain the pace with developments in technology.	M1 - To impart essential technical knowledge and competency among students
	M2 - To enhance innovative approaches towards creativity.
	M3 - To inculcate the values for the well-being of environment and society.
	M1 - To impart essential technical knowledge and competency among students
	M2 - To enhance innovative approaches towards creativity.

CRITERION 02	Program Curriculum & Teaching Learning Process	120
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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)

The Civil Engineering Department. Arvind Gavali College of Engineering, Satara is affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere Maharashtra. The program curriculum is provided by said universities which are a composition of Basic science, humanities, professional courses and their distribution as core and electives with specified breadth and depth of learning. The curriculum formed is formulated and reviewed once in 4 years through Board of Studies (BOS) of a Chairman.

The composition DBTU Lonere, curriculum for the B. Tech (Bachelor of Technology) in Electrical Engineering is shown in table B.2.1.1.a. The B.2.1.1.b shows extent mapping of the courses to program outcomes and table B.2.1.1.c shows the mapping of courses to program specific outcomes

Table B 2.1.1a Mapping of Curriculum Components with PO/ PSOs

Sr. No.	Type of Courses Offered	Number of Subjects Mapped	Number of Credits allotted	Weightage in percentage
1.	Basic Science	07	22	13.25
2.	Engineering Science	12	15	9.04
3	Humanities and Social Science including Management Courses	05	06	3.61
4	Professional Core Subjects	39	87	52.41
5	Professional Elective	04	12	7.23
6	Open Elective	01	0	0
7	Mini Project /Major Projects	03	19	11.45
8	Seminar/ Internship/Field Training	08	05	3.01
Total		79	166	100

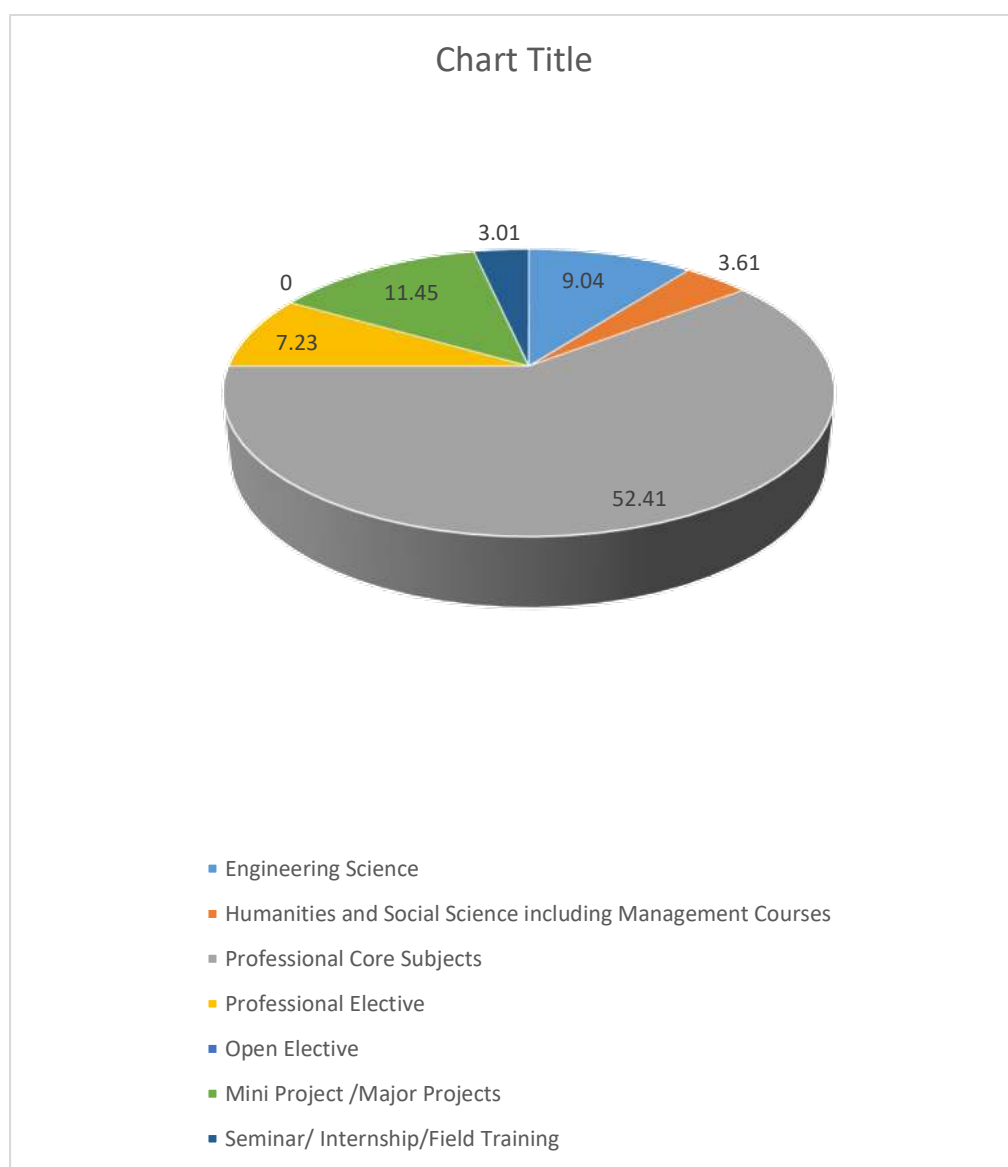


Fig B 2.1.1a Curriculum Components

The institution implements the overall curriculum break up as per DBATU which is for a period of 8 semesters. The curriculum for Bachelor of Engineering in Civil Engineering is given in Table B.2.1.1b

Table B 2.1.1 b University Curriculum Structure

Teaching and Evaluation Scheme for First Year B. Tech. (All Branches)

Group A

Semester I									
Course Code	Course Title	Teaching Scheme			Evaluation Scheme				
		L	T	P	CA	MSE	ESE	Total	Credit
Mandatory	Induction Program	3-weeks duration in the beginning of semester.							
BTBS101	Engineering Mathematics- I	3	1	-	20	20	60	100	4
BTBS102	Engineering Physics	3	1	-	20	20	60	100	4
BTES103	Engineering Graphics	2	-	-	20	20	60	100	2
BTHM104	Communication Skills	2	-	-	20	20	60	100	2
BTES105	Energy and Environment Engineering	2	-	-	20	20	60	100	2
BTES106	Basic Civil and Mechanical Engineering	2	-	-	50	-	-	50	Audit
BTBS107L	Engineering Physics Lab	-	-	2	60	-	40	100	1
BTES108L	Engineering Graphics Lab	-	-	4	60	-	40	100	2
BTHM109L	Communication Skills Lab.	-	-	2	60	-	40	100	1
		14	2	8	330	100	420	850	18

Semester II									
BTBS201	Engineering Mathematics-II	3	1	-	20	20	60	100	4
BTBS202	Engineering Chemistry	3	1	-	20	20	60	100	4
BTES203	Engineering Mechanics	2	1	-	20	20	60	100	3
BTES204	Computer Programming in C	3	-	-	20	20	60	100	3
BTES205	Workshop Practices	-	-	4	60	-	40	100	2
BTES206	Basic Electrical and Electronics Engineering	2	-	-	50	-	-	50	Audit
BTBS207L	Engineering Chemistry Lab	-	-	2	60	-	40	100	1
BTES208L	Engineering Mechanics Lab	-	-	2	60	-	40	100	1
BTES210S	Seminar	-	-	2	60	-	40	100	1
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).	-	-	-	-	-	-	-	Credits To be evaluated in III Sem.
		13	3	10	430	80	440	950	19
		27							

Dr. Babasaheb Ambedkar Technological University, Lonere
Teaching & Evaluation Scheme for Second Year B. Tech. Civil Engg.

Semester- III										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
BSC 5	BTBS301	Mathematics – III	3	1	-	20	20	60	100	4
ESC 8	BTCVES302	Mechanics of Solids	3	1	-	20	20	60	100	4
PCC 1	BTCVC303	Building Construction & Drawing	2	1	-	20	20	60	100	3
PCC 2	BTCVC304	Hydraulics -I	3	1	-	20	20	60	100	4
PCC 3	BTCVC305	Surveying	2	1	-	20	20	60	100	3
HSSMC2	BTHM306	Soft Skill Development	2	-	-	50	-	-	50	Audit
LC 1	BTCVL 307	Solid Mechanics Laboratory	-	-	2	20	-	30	50	1
LC 2	BTCVL 308	Hydraulics-I Laboratory	-	-	2	20	-	30	50	1
LC 3	BTCVL 309	Surveying Laboratory	-	-	2	20	-	30	50	1
Internship	BTES210P	Internship –I Evaluation (From Sem II)	-	-	-	-	-	50	50	Audit
Total			15	05	06	210	100	440	750	21

Semester- IV										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC 4	BTCVC401	Building Planning and Drawing	2	-	-	20	20	60	100	2
PCC 5	BTCVC402	Environmental Engineering	2	-	-	20	20	60	100	2
PCC 6	BTCVC403	Structural Mechanics - I	2	1	-	20	20	60	100	3
PCC 7	BTCVC404	Water Resources Engineering	3	-	-	20	20	60	100	3
PCC 8	BTCVC405	Hydraulics - II	2	1	-	20	20	60	100	3
PCC 9	BTCVC406	Engineering Geology	2	1	-	20	20	60	100	3
LC 4	BTCVL407	Building Planning and CAD Lab.	-	-	2	20	-	30	50	1
LC 5	BTCVL408	Environmental Engg. Lab.	-	-	2	20	-	30	50	1
LC 6	BTCVL409	HE-II Lab.	-	-	2	20	-	30	50	1
Internship	BTCVP410	Field Training / Internship/Industrial Training (minimum of 4 weeks training in Summer Vacation after Semester IV and appear at examination in Semester V)	-	-	-	-	-	-	-	To be evaluated in V Sem
Total			13	03	06	180	120	450	750	19

Dr. Babasaheb Ambedkar Technological University, Lonere
Teaching & Evaluation Scheme for Third Year B Tech Civil Engg.

Semester- V										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC 10	BTCVC501	Design of Steel Structures	2	1	-	20	20	60	100	3
PCC 11	BTCVC502	Geotechnical Engineering	3	1	-	20	20	60	100	4
PCC 12	BTCVC503	Structural Mechanics –II	2	1	-	20	20	60	100	3
PCC 13	BTCVC504	Concrete Technology	2	-	-	20	20	60	100	2
HSSMC3	BTHM505	Project Management	3	-	-	20	20	60	100	3
PEC 1	BTCVPE506	A. Advanced Environmental Engg. B. Applied Geology C. Hydraulic Engineering Design D. Advanced Water Resources E. Geomatics F. Town and Urban Planning G. Material, Testing and Evaluation H. Construction Economics & Finance	3	-	-	20	20	60	100	3
ESC10	BTCVES507	Software applications in Civil Engineering	2	-	-	50	-	-	50	Audit
LC 7	BTCVL508	SDD of Steel Structures Lab.	-	-	2	20	-	30	50	1
LC 8	BTCVL509	Geotechnical Engineering Lab.	-	-	2	20	-	30	50	1
LC 9	BTCVL510	Concrete Technology Lab.	-	-	2	20	-	30	50	1
Internship	BTCVP410	Internship – 2 Evaluation	-	-	-	-	-	-	-	Audit
Total			17	3	6	230	120	450	800	21

Semester- VI

§:Students should register for the CVF 705 in Semester VI to undergo training during vacation after semester VI and appear at examination in Semester VII. Result shall appear in Grade-sheet of Semester VII

Sr. No.	Subject Code	Subject Title	Contact hours			Credit
			L	T	P	
01	BTCVC601	Design of Concrete Structures I	3	1	-	3
02	BTCVC602	Foundation Engineering	2	1	-	3
03	BTCVC603	Concrete Technology	2	-	✓	2
04	BTCVC604	Project Management	2	1	-	2
05	CVE3	Elective III	3	-	-	3
06	BTCVC606	Building Planning and Design	2	-	✓	2
Practical / Drawing and/or Design						
07	BTCVL607	Concrete Technology Laboratory	-	-	2	1
08	BTCVL608	Building Planning, Design and Drawing Laboratory	-	-	4	2
09	BTCVM609	Community Project (Mini Project)	-	-	2	1
10	BTCVS610	Seminar on Topic of Field Visit Road Construction	-	-	1	AU
11	BTCVF611	Industrial Training ^S	-	-	2	--
Sub-Total			14	3	11	
Total				28		19
Elective III						
	BTCVE605A	Waste Water Treatment				
	BTCVE605B	Operations Research				
	BTCVE605C	Geographic Data Analysis and Applications				
	BTCVE605D	Advanced Engineering Geology				
	BTCVE605E	Advanced Soil Mechanics				
	BTCVE605F	Design of Masonry and Timber Structures				

Course Structure for Semester VII (Fourth Year) w.e.f. 2020-2021										
Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTCVC701	Core	Design of Concrete Structures - II	2	1	--	20	20	60	100	3
BTCVC702	Core	Infrastructure Engineering	3	--	--	20	20	60	100	3
BTCVC703	Core	Water Resources Engineering	3	1	--	20	20	60	100	4
BTCVC704	Core	Professional Practices	2	1	--	20	20	60	100	3
BTCVE705A	Elective IV	Construction Techniques	3	--	--	20	20	60	100	3
BTCVE705B		Engineering Economics								
BTCVE705C		Finite Element Method								
BTCVE705D		Limit State Design of Steel Structures								
BTCVE705E		Plastic Analysis and Design								
BTCVE705F		Water Power Engineering								
BTCVOE706A	Open Elective V	Advanced Structural Mechanics	3	--	--	--	--	--	--	Audit (AU/ NP)
BTCVOE706B		Air Pollution Control								
BTCVOE706C		Bridge Engineering								
BTCVOE706D		Introduction to Earthquake Engineering								
BTCVOE706E		Town and Urban Planning								
BTCVOE706F		Tunneling and Underground Excavations								
BTCVL707	Laboratory	Design & Drawing of RC & Steel Structures	--	--	2	30	--	20	50	1
BTCVL708	Laboratory	Professional Practices	--	--	2	30	--	20	50	1
BTCVT709	Training	Field Training /Internship/Industrial	--	--	--	--	--	50	50	1
BTCVS710	BTS	Seminar	--	--	2	--	--	50	50	1
BTCVP711	BTP	Project Stage-I**	--	--	6	--	--	50	100	3
Total			16	3	12	160	150	490	800	23

Course Structure for Semester VIII [Fourth Year] w.e.f. 2020-2021										
Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme ^s				Credits
			L	T	P	CA	MSE	ESE	Total	
BTCVSS801A	(Self-Study Course) *	Characterization of Construction Materials	03**	--	--	20	20	60	100	3
BTCVSS801B		Geosynthetics and Reinforced Soil Structures								
BTCVSS801C		Higher Surveying								
BTCVSS801D		Maintenance and Repair of Concrete Structures								
BTCESS801E		Structural Dynamics								
BTCESS802A	(Self-Study Course) *	Energy Efficiency Acoustics and Daylighting in Building	03**	--	--	20	20	60	100	3
BTCESS802B		Environmental Remediation of Contaminated Sites								
BTCESS802C		Remote Sensing Essentials								
BTCESS802D		Mechanical Characterization of Bituminous Materials								
BTCESS802E		Soil Structure Interaction								
BTCEP803	Project Stage-II	In-house Project or Internship and Project in Industry*	--	--	30	50	--	100	150	15
Total			04	--	30	90	40	220	350	21

The department has well defined process in implementation to achieve the Program Outcomes (PO) and Program Specific Outcomes. If some components, to attain Cos/POs are not included in the curriculum provided by DBATU, then 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.

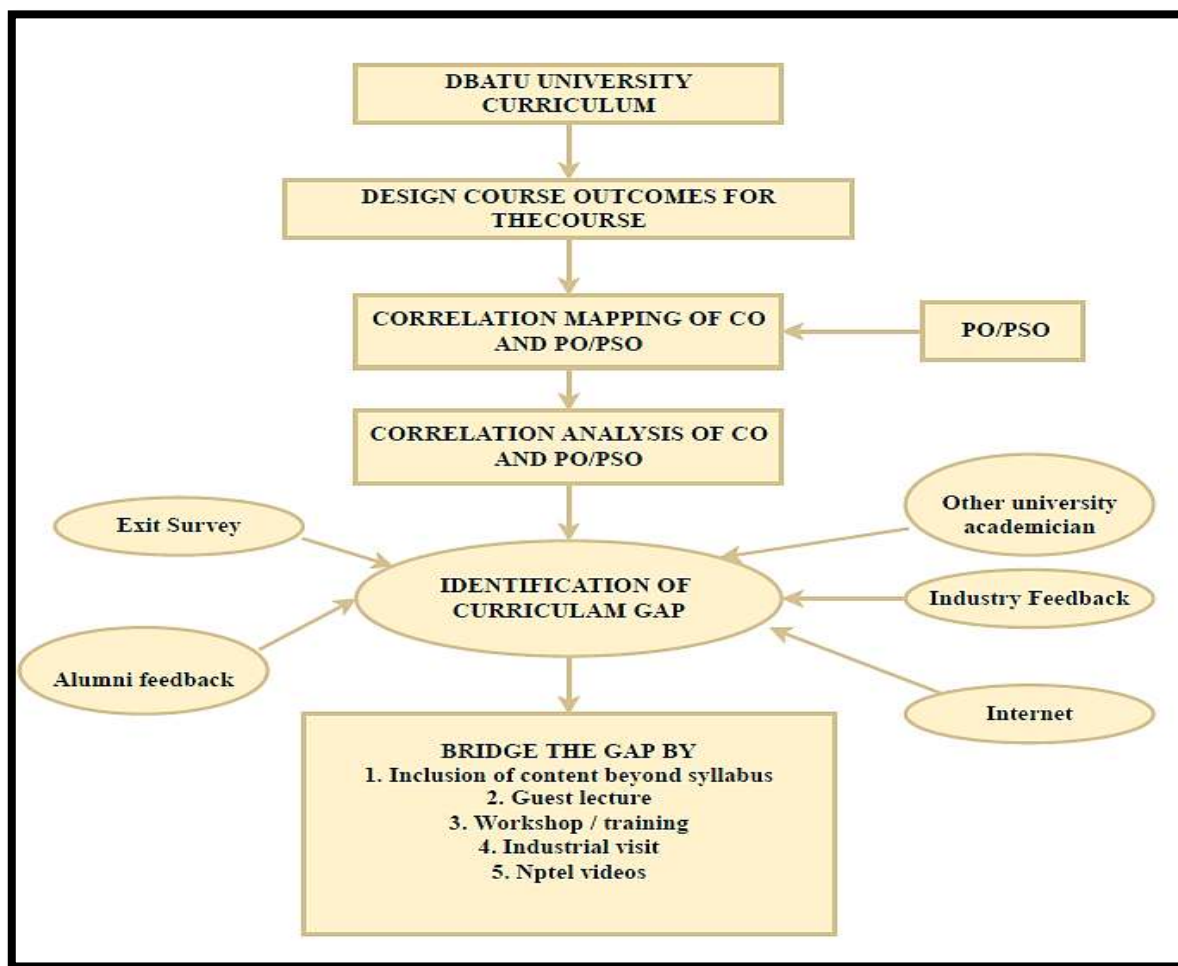


Fig. 2.1.1a Process to Identify Curriculum Gaps

1. The University announces curriculum annually in the month of June. The curriculum provides syllabus of each subject
2. Faculty members 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 department before commencement of semester. Plan is duly signed by Head of the Department. Plan ensures the coverage of complete syllabus before the end of semester

Sr. No	Subject Code	Name of Subject	P O 1	P O 2	P O 3	P O 4	PO 5	PO 6	PO 7	PO 8	P O 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
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	
3	BTES103	Engineering Graphics	Y	Y	Y	Y	Y					Y			Y	
4	BTHM104	Communication Skill	Y				Y	Y		Y		Y		Y		
5	BTES105	Energy and Environment Engineering	Y	Y	Y	Y		Y	Y	Y		Y	Y		Y	Y
6	BTES106	Basic Civil and Mechanical Engineering	Y	Y	Y	Y		Y	Y			Y	Y		Y	
7	BTBS107L	Physics Lab	Y	Y	Y		Y	Y	Y		Y			Y	Y	Y
8	BTES108L	Graphics lab	Y	Y	Y	Y		Y			Y	Y		Y	Y	
9	BTBS201	Engineering Mathematics-II	Y	Y	Y	Y		Y					Y	Y	Y	Y
10	BTBS202	Engineering Chemistry	Y	Y	Y			Y	Y		Y				Y	
11	BTES203	Engineering Mechanics	Y	Y	Y			Y			Y			Y	Y	
12	BTES204	Computer Programming in C	Y	Y							Y	Y				
13	BTES205	Workshop Practices	Y				Y				Y	Y	Y	Y	Y	
14	BTES206	Basic Electrical and Electronics Engineering	Y					Y	Y						Y	
15	BTBS207L	C' Programming Lab	Y	Y	Y						Y	Y		Y		
16	BTES208L	Engineering Chemistry Lab	Y	Y				Y	Y		Y					
17	BTES209L	Mechanics Lab	Y	Y	Y			Y	Y		Y	Y			Y	Y
18	BTES210P	Mini Project	Y	Y			Y	Y	Y	Y	Y	Y			Y	Y
19	BTES211P	Field Training	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
20	BTBSC301	Mathematics III	Y	Y				Y					Y	Y	Y	
21	BTCVC302	Mechanics of Solids	Y	Y	Y			Y			Y			Y	Y	
22	BTCVC303	Hydraulics -I	Y		Y			Y	Y					Y	Y	Y
23	BTCVC304	Surveying - I	Y	Y	Y		Y		Y					Y	Y	Y

24	BTCVC305	Building Construction	Y	Y			Y	Y	Y					Y	Y	Y
25	BTCVC306	Engineering Geology	Y						Y						Y	Y
26	BTHM303	Soft Skill Development							Y	Y	Y	Y	Y			
27	BTCVL 307	Hydraulics-I Laboratory	Y	Y	Y	Y		Y	Y			Y		Y	Y	Y
28	BTCVL 308	Surveying Laboratory I	Y	Y	Y	Y	Y		Y			Y		Y	Y	Y
29	BTCVC309	Building Construction – Drawing Laboratory	Y	Y				Y	Y			Y		Y	Y	Y
30	BTCVC310	Engineering Geology Lab	Y		Y	Y			Y			Y		Y	Y	Y
31	BTCVC311	Seminar Topic of field Visit to foundation work	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
32	BTCVF312	Field visit/ Internship / Industrial Evaluation (From Semester II)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
33	BTCVC401	Hydraulics II	Y		Y			Y	Y					Y	Y	Y
34	BTCVC402	Surveying – II	Y	Y	Y	Y	Y		Y					Y	Y	Y
35	BTCVC403	Structural Mechanics-I	Y	Y	Y	Y		Y	Y					Y	Y	Y
36	BTCVE404 A	Elective I (Numerical methods in engineering)	Y	Y										Y	Y	Y
37	BTID405	Product Design Engineering	Y	Y	Y	Y			Y		Y					
38	BTCVC406	Engineering Management							Y					Y	Y	
39	BTHM3401	Basic Human Rights						Y	Y						Y	
40	BTCVL407	Hydraulics Laboratory II	Y	Y	Y			Y	Y			Y		Y	Y	Y
41	BTCVL408	Surveying Laboratory II	Y	Y	Y	Y	Y		Y			Y		Y	Y	Y

42	BTCVL409	Mechanics of Solids Laboratory	Y	Y	Y	Y		Y	Y			Y		Y	Y	Y
43	BTCVM410	Mini Project	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
44	BTCVF411	Seminar Visit Superstructure	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
45	BTCVC 501	Design of Steel Structures	Y	Y	Y	Y		Y						Y	Y	Y
46	BTCVC 502	Structural Mechanics-II	Y	Y	Y	Y			Y					Y	Y	Y
47	BTCVC 503	Soil Mechanics	Y	Y	Y	Y			Y					Y	Y	Y
48	BTCVC 504	Environmental Engineering	Y	Y		Y		Y	Y						Y	Y
49	BTCVC 505	Transportation Engineering	Y				Y	Y	Y		Y	Y			Y	Y
50	CV E2	Elective II communication and presentation s							Y	Y	Y	Y	Y		Y	
51	BTHM 507	essence of Indian Traditional Knowledge						Y	Y	Y	Y	Y				
52	BTCVL 508	Soil Mechanics Laboratory	Y	Y	Y	Y			Y			Y				
53	BTCVL 509	Environmental Engineering Laboratory	Y	Y	Y	Y		Y	Y			Y		Y	Y	Y
54	BTCVL 510	Transportation Engineering Laboratory	Y		Y	Y	Y	Y	Y		Y	Y		Y	Y	Y
55	BTCVS 511	Seminar on Topic of Field Visit to works related to Building Services	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
56	BTCVC601	Design of Concrete Structures I	Y	Y	Y			Y						Y	Y	Y
57	BTCVC602	Foundation Engineering	Y	Y	Y									Y	Y	Y
58	BTCVC603	Concrete Technology	Y	Y	Y			Y						Y	Y	Y
59	BTCVC604	Project Management	Y	Y						Y	Y	Y	Y	Y	Y	Y
60	CVE3 BTCVE605A	Elective III Waste Water treatment	Y					Y	Y					Y	Y	Y
61	BTCVC606	Building Planning and Design	Y					Y	Y					Y	Y	Y
62	BTCVL607	Concrete	Y			Y		Y				Y		Y	Y	Y

		Technology Laboratory														
63	BTCVL 608	Building Planning, Design and Drawing Laboratory	Y		Y	Y	Y	Y	Y			Y		Y	Y	Y
64	BTCVM 609	Community Project (Mini Project)			Y	Y	Y			Y	Y	Y		Y	Y	Y
65	BTCVS 610	Seminar on Topic of Field Visit Road Construction	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
66	BTCVF611	Industrial Training	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
67	BTCVC 701	Design of Concrete Structures II	Y	Y	Y			Y						Y	Y	Y
68	BTCVC 702	Infrastructure Engineering	Y				Y	Y	Y		Y	Y		Y	Y	Y
69	BTCVC 703	Water Resources Engineering	Y						Y					Y	Y	Y
70	BTCVC 704	Professional Practices				Y				Y	Y	Y	Y	Y	Y	Y
71	CVE4 BTCVE705A	Elective IV Construction Techniques	Y			Y		Y	Y					Y	Y	Y
72	CVE5 BTCVOE706	Elective V Air Pollution Control	Y			Y		Y	Y					Y	Y	Y
73	BTCVC 707	Design & Drawing of RC & Steel Structures Laboratory	Y	Y	Y	Y						Y		Y	Y	Y
74	BTCVC 708	Professional Practices Laboratory			Y							Y		Y	Y	Y
75	BTCVC 709	Industrial Training	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y
76	BTCVC 710	Project Stage I	Y	Y	Y	Y	Y	Y	Y				Y	Y	Y	Y
77	BTCVSS801 D	Maintenance and Repair of Concrete Structures	Y	Y	Y		Y	Y						Y	Y	
78	BTCESS80 E	Soil Structure Interaction	Y	Y	Y			Y						Y	Y	
79	BTCEP803	Project Stage -II	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y

		Total	7 1	5 4	5 2	40	27	54	54	19	31	41	12	61	71	58
		Percentage	8 9	6 8	6 5	50	34	68	68	24	39	51	15	77	89	73

3. For each course or subject, a course file is prepared by the concerned faculty member. Co-relation matrix of CO with PO/ PSOs is also designed and analyzed by faculty members and Head of the Department.

4. The feedback from the alumni, industry experts, and academicians from other Universities and students is regularly taken. Gaps are identified on the basis of the CO attainment of individual courses and feedback from different stake holders.

5. The data collected is then presented in front of the Program Evaluation and Review Committee. The gaps are discussed in the PERC meeting. To bridge gaps, seminars, workshops, guest lectures, industrial visits etc. are occasionally arranged by our department/ institute as per the convenience and content beyond the syllabus is prepared accordingly.

**Table B.2.1.1.c Mapping of the courses to Program Outcomes
CAY (2022-2023)**

The percentage of mapping of Courses to POs shown in table B.2.1.1.b & B.2.1.1.c, provides Curricular gaps and mapping beyond syllabus. Efforts are made to impart requisite knowledge by the way of “*content enhancement beyond syllabus*”

**Table B 2.1.1.d Gaps in Program Outcomes of University Curriculum
CAY (2022-2023)**

Sr. No.	PO's	Description
1	PO5	Use of modern tools
2	PO8	Ethics
3	PO9	Individual and team work
4	PO11	Project Management & Finance

CAYm1 (2021-2022)

Sr. No.	PO's	Description
1	PO5	Use of modern tools
2	PO8	Ethics
3	PO11	Project Management & Finance

Following are the curriculum gap identified in:

Table B.2.1.1e Identified Curricular Gaps**CAY (2022-23):**

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Building Construction (BTCVC305)	Hands on drawing, Planning, Modelling software should be included. Design and development of solution and modern tool uses, codal provisions and IS requirements of material testing.	PO3,PO5,PO9,PO11, PSO2
2	Concrete Technology (BTCVC603)	Quality control in batching, mixing, transportation, placing, compaction and curing. Mix proportion and mix design. Use of advance construction techniques and materials.	PO3,PO4,PO5,PO7
3	Soil Mechanics and Foundation Engineering (BTCVC503)	Conduct investigation of complex problems like slope stability analysis, soil reinforcing techniques, Use of modern tools.	PO5,PO6,PO8,PO9, PO10,PO11

4	Career Opportunities for civil engineer	Corporate expectations from fresher and career opportunities in abroad	PO8,PO9,PO10,PO11,PO12, PSO2
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CAY m1 (2021-2022)

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Surveying II (BTCVC402)	Use of modern tools	PO5, PO12, PSO1
2	Soil mechanics (BTCVC503)	Actual application term used in soil mechanics.	PO1, PO12, PSO2
3	Environmental Engineering (BTCVC504)	Actual practice of treatment methods.	PO1, PO6, PO7,PO12,PSO1
4	Transportation Engineering (BTCVC505)	Advancement in transportation	PO1,PO3,PO5, PO12, PSO1
5	Career Opportunities for civil engineer	Awareness about career opportunities in competitive exam after graduation.	PO8,PO9,PO10,PO11,PO12, PSO2

CAYm2 (2020-21)**Table B.2.1.1f Identified Curricular Gaps**

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Infrastructure Engineering (BTCVC701)	Awareness about new trends	PO5, PO12, PSO1
2	Building Construction (BTCVC305)	Actual construction at site	PO1, PO3,PSO1,PSO2
3	Foundation Engineering (BTCVC602)	Construction of foundation on site	PO1,PO7,PO12,PSO2

CAYm3 (2019-20)**Table B.2.1.1 g Identified Curricular Gaps**

Sr. No	Relevant Course/Area	Curriculum Gap Identified (Content Beyond Syllabus)	Relevance to PO & PSO
1	Engineering Geology (BTCVC306)	Awareness about new techniques	PO5, PSO1
2	Advancement in Surveying	Awareness about advancements in surveying	PO5,PO12,PSO1
3	Ethics	Ethical Principles	PO8, PO12,PSO2
4	Career opportunities in Civil engineering	Awareness about civil engineer career opportunities	PO12, PSO2
5	Entrepreneur Skills	Leadership Skill	PO9,PO11,PSO1, PSO2
6	Soft skill & Personality Development	Communication Skill, Presentation Skill	PO10, PO12 PSO1, PSO2
7	Industry Essential Skills	Industrial Culture	PO8, PSO2

CAYm4 (2018-19)**Table B.2.1.1 h Identified Curricular Gaps**

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Building Construction (BTCVC305)	New trends in construction engineering	PO1, PO3, PSO1
2	Hydraulics II (BTCVC401)	On site working of hydraulic turbine	PO1, PO3, PO12, PSO1
3	Structural Mechanics I (BTCVC403)	Advancement in design and analysis	PO1, PO3, PSO2
4	Structural Mechanics II (BTCVC502)	Career opportunities in structural analysis	PO3, PO5, PSO2
5	Environmental Engineering (BTCVC504)	Career opportunities in environmental engineering	PO6, PO12, PSO1

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

CAY (2022-23):

Sr. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	No of Students	Relevance to POs, PSOs
1	<p>Hands on drawing, Planning, Modelling software should be included.</p> <p>Use of modern tools and software for planning, designing, modelling etc.</p>	Hands on & Workshop on Auto Cad.	<p>2/12/2022 &</p> <p>3/12/2022</p>	<p>Ms. Shubhangi Hake Om Shree associates</p> <p>Architects and landscape, Pune</p>	30	PO1, PSO2, PO3, PO5, PO10
2	<p>Conduct investigation of complex problems like slope stability analysis, soil reinforcing techniques, Use of modern tools.</p> <p>Use of various types of binder materials, their suitability, standard specifications, tests.</p> <p>Slope stability, Foundation on expansive soil, soil reinforcing techniques.</p>	<p>Expert lecture on</p> <p>“Bituminous binders for road pavements, their specifications, suitability etc.</p> <p>Slope stability, Foundation on expansive soil, soil reinforcing techniques.</p>	27/03/2023	Mr. Ishwar Dayal	40	PO2, PO3, PO4, PO8, PO11, PSO2

3	Quality control in batching, mixing, transportation, placing, compaction and curing. Mix proportion and mix design. Use of advance construction techniques and materials. Modern construction techniques, tools and smart processes, advance safety measures and ecofriendly construction	Visit to construction sites (Model developers and Chaitanya Residency, Satara.	17/04/2023	Mr. Makrand Dhavale Mr. Ranjit A Katkar Mr. Rajendra Sakpal	30	PO5, PO12, PSO1
4	Design and development of solution and modern tool uses, codal provisions and IS requirements of material testing.	Visit to 'Rachana Exhibition'	25/11/2022	Mr. R. N. Sakpal	30	PO3, PO5, PO10, PO11, PO12
5	Corporate expectations from fresher and career opportunities in abroad. Developing and strengthening CV and Resume	Webinar guest lecture on "How to create an effective resume"	11/05/2023	Mr. Sharif Malik	30	PO8, PO9, PO10

6	Corporate expectations from fresher and career opportunities in abroad. Career opportunities for civil engineer	Expert lecture on 'Higher studies and work opportunities in abroad(Germany)	20/12/2022	Mr. Shekhar Bhidwai	30	PO10,PO11
7	Corporate expectations from fresher and career opportunities in abroad. Professional Practices and Career opportunities	Webinar on Corporate expectations from fresher	04/05/2023	Mr. Vinayak Bedge Prof. Gopal Krishna	60	PO10,PO11,

CAY m1 (2021-22):

Sr. No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of Students	Relevance to POs, PSOs
1	Actual application of Soil mechanics on site.	Expert lecture on actual application of shear stress parameters in the field.	27/01/2022	Dr. S.T. Shinde HOD, VIIT Pune	24	PO1,PO3, PSO2
2	New development in Infrastructure engineering	Expert lecture on new developments and technologies adopted in bridge and railway engineering	27/01/2022	Mr A.P. Bhalerao Project Manager SKB.LLP	20	PO1, PO3, PO12, PSO1
3	Modern surveying techniques.	Expert lecture on application of modern surveying tools and techniques.	28/01/2022	Asst. Prof. H.U. Mulay MIT, Loni	30	PO5, PO12, PSO1
4	Awareness about recent trends in transportation engineering	Expert lecture on recent developments in road construction	29/01/2022	Asst. Prof. S.S. Chavan	30	PO5,PO12, PSO1, PSO2
5		Expert lecture on	01/02/2022	Asst. Prof. Jadhav R.H.	20	PO1,PO5, PSO1

	Use of modern tools in Structural mechanics	use of mobile application for calculation of complex structural problems		Bharti Vidyapeeth, Pune		
6	Professional Practices	Expert lecture on professional process of estimation, tendering and contracting.	02/02/2022	Asst. Prof. Chavan A.N. DBATU Lonere	23	PO2,PO12, PSO2
7	Environmental Engineering	Expert lecture on application of wastewater treatment concepts and methods in actual practice.	02/02/2020	Asst. Prof. P.B. Bhagvati ADCE&T Ashta	25	PO1,PO3, PO12,PSO1 PSO2
8	Advanced Water & Wastewater Treatment	Industrial visit on sewage treatment plant at Akurdi	24/05/2022	Mrs. Dhanashri Deshmukh	40	PO1,PO3, PO6,PSO1, PSO2
		Industrial visit on	24/05/2022	Mrs. Manisha Hinge	40	

		water treatment				
9	Science Center	Industrial visit on science center, Pimpri	24/05/2022	Mr. Pote Sir	40	PO1, PO4, PSO1
10	Career opportunities for civil engineer	Webinar on Scope of competitive examination in civil engineering	31/05/2022	Mr. Swapnil Patil	30	PO11,

CAY m2 (2020-21):

Sr. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of Students	Relevance to Pos, PSOs
1	Recent developments in Infrastructure engineering	Guest lecture on Advancement in infrastructure engineering	10/10/2020	Mr. Amte R.A. JW Infra builder	34	PO5, PO12, PSO1
2	Actual working at Civil engineering industries	Industrial visit on Aditi buildcon construction satara	17/03/2021	Mr. Matkar G.D. Builder	30	PO2, PO12, PSO1, PSO2
3	Awareness about actual construction of buildings.	Field visit on Niketan construction satara	26/03/2021	Mr. Amey Apte Builder	28	PO12, PSO2

CAY m3 (2019-20):

Sr. No.	GAP	Action Taken	Date-Month-Year	Resource Person with Designation	No. of Students Participated	Relevance to POs, PSOs
1	Ethics	No vehicle day	11/01/2020			PO8
2	Awareness about actual working on site	Guest lecture on site knowledge	03/02/2020	Mr. Vasudev	24	PO1, PO3, PO11, PSO1, PSO2
3	Placing of precast units on site	Industrial visit Aditi Buildcon and Ananda construction, Satara	10/02/2020	Mr. Matkar Sir Mr. Vasudev Sir Builder	36	PO1, PO3, PO11, PSO1, PSO2
4	Development in Infrastructure engineering	Visit to CWPRS and Pune metro	06/03/2020		39	PO1, PO3, PO5, PO12, PSO2
5	Application of new techniques in engineering geology	Guest Lecture on Detection of groundwater vein by using Dawsing Technique	06/07/2020	Dr. Sarote R.R. Professor JSPM Bavdhan	34	PO5, PSO1
6	Actual designing of RCC Members on site	Guest Lecture on RCC Design	08/07/2020	Prof. Kakade Sir COEP Pune	34	PO3, PSO2
7	Advancements in Surveying	Guest Lecture on Advance Surveying	09/07/2020	Prof. Chafalkar Sir JSPM Tathawade	34	PO5, POS2
		Guest Lecture on using unmanned aerial vehicles as remote sensing platform aerial survey	10/07/2020	Prof. Mule Sir JSPM Narhe	35	PO5, PSO2
8	Career opportunity for construction management field	Guest Lecture on Construction management career opportunity	15/07/2020	Prof. Dr. Minde MIT Kothrud	30	PO9, PO12, PSO1


9	Career after graduation in Government sector	Guest Lecture on Art of success for civil services	16/07/2020	Mr. Jojo Mathew HIT, Nidasoshi	37	PO12
10	Awareness about higher education	Guest Lecture on career guidance for civil engineering	17/07/2020	Prof. Khandekar sir PVPIT Pune	32	PO12, PSO2
11	Awareness about Career opportunity for Structural engineer	Guest Lecture on Career opportunity in structural engineering	20/07/2020	Prof. Dr. wagh Sir	35	PO12, PSO2
12	Advancements in transportation	Guest Lecture on Advancement in mass transport system	21/07/2020	Prof. Vipul Naidu PVPIT Pune	34	PO1, PO3, PO5, PO12

2.2. Teaching - Learning Processes (100)**2.2.1. Describe Processes followed to Improve quality of Teaching & Learning (25)****A Planning & adherence to academic calendar:**

- The institute adheres to the academic calendar of DBATU Technical University Lonere. The academic calendars are the mirror of the academic activities of the institute and the department.
- The institute prepares its own academic calendar after the university academic calendar announcement at the beginning of each semester.
- In line with Institute academic calendar, department prepares annual activity calendar separately and share it with faculties and student
- All faculty & student follows 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


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-रायगड-४०२ १०३ (महाराष्ट्र) Vidyavihar, Lonere - Raigad 402 103 (Maharashtra)
 Tel : (02140) 275142 Student Helpline : 02140-275212 स्वातंत्र्याचा अमृत महोत्सव

Dr. Bhagwan F. Jogi
Registrar

डॉ. भगवान फ. जोशी
कुलसचिव

DBATU /REG/ OFC/ 2023 / 1383

Dated: 24 / 03 / 2023


Academic Calendar Semester-II Revised (AY 2022-2023)


Sr. No.	Activity	Commencement Date	Concluding Date	Level
1	Commencement of Classes	1 st April 2023	20 th June 2023	UG
2	Mid Semester Examination	8 th May 2023	12 th May 2023	UG
3	End of Classes	-	20 th June 2023	UG
4	End Semester Examination	21 st June 2023	30 th June 2023	UG
5	Practical Examination	1 st July 2023	10 th July 2023	UG
6	Result Declaration	-	30 th July 2023	UG
7	Commencement of Classes for Next semester	1 st August 2023		UG
Holidays	<div style="display: flex; justify-content: space-between;"> <div> 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 </div> <div> 14 April – Dr Babasaheb Ambedkar Jayanti 22 April – Ramzan Eid 1 May – Maharashtra Din 5 May – Buddha Pournima 29 June – Bakari Eid </div> </div>			

1) All Sundays to be made working except public holidays.
 2) Institute may allot additional lectures than prescribed to cover the syllabus.

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

- All heads of departments
- Affiliated Institutes
- Academic Section
- Controller of Examinations




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

Web Site : www.dbatu.ac.in

E-mail: registrar@dbatu.ac.in

Fig. B.2.2.1a.: Sample Academic calendar of the University

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	4	5	6	7	1-01 Sept: Commencement of Classes and Admission; 2-Week Second, 3rd and 4th Year; 5th Term Semester				
2	8	9	10	11	12	13	14	1-02 Sept: BPHU/DAV/AMU/University Certification				
3	15	16	17	18	19	20	21	1-03 Sept: New Year Observance (2nd Year & A.P. 2022-23)				
4	22	23	24	25	26	27	28	1-04 Sept: Teacher's Day Celebration & Knowledge collection activity				
5	29	30	01	02	03	04	05	1-05 Sept: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
6	06	07	08	09	10	11	12	1-06 Sept: Commencement of Project/Assignments & Seminar Submission				
7	13	14	15	16	17	18	19	1-07 Sept: Employment Day Celebration and Commemorative Ceremony				
8	20	21	22	23	24	25	26	1-08 Sept: Satara & 4th Year Office				
9	27	28	29	30	01	02	03	1-09 Sept: Parents' Conference				
10	04	05	06	07	08	09	10	1-10 Sept: Parents' Meeting				
11	11	12	13	14	15	16	17	1-11 Sept: No Vehicle Day				
12	18	19	20	21	22	23	24	1-12 Sept: CAG Objective and Descriptive Examination				
13	25	26	27	28	29	30	01	1-13 Sept: Probable Holidays: 1st September: School Closure				
Academic Days: 25												
October 2022												
Week	SUN	MON	TUE	WED	THU	FRI	SAT					
1	1	2	3	4	5	6	7	1-14 Sept: Teacher's Day Office				
2	8	9	10	11	12	13	14	1-15 Sept: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
3	15	16	17	18	19	20	21	1-16 Sept: Display of Attendance, List of defaulter students and Letter dispatching				
4	22	23	24	25	26	27	28	1-17 Sept: 3rd Year Office				
5	29	30	01	02	03	04	05	1-18 Sept: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
6	06	07	08	09	10	11	12	1-19 Sept: Display of Attendance, List of defaulter students and Letter dispatching				
7	13	14	15	16	17	18	19	1-20 Sept: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
8	20	21	22	23	24	25	26	1-21 Sept: Display of Attendance, List of defaulter students and Letter dispatching				
9	27	28	29	30	01	02	03	1-22 Sept: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
10	04	05	06	07	08	09	10	1-23 Sept: Display of Attendance, List of defaulter students and Letter dispatching				
11	11	12	13	14	15	16	17	1-24 Sept: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
12	18	19	20	21	22	23	24	1-25 Sept: Display of Attendance, List of defaulter students and Letter dispatching				
13	25	26	27	28	29	30	01	1-26 Sept: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
14	02	03	04	05	06	07	08	1-27 Sept: Display of Attendance, List of defaulter students and Letter dispatching				
15	09	10	11	12	13	14	15	1-28 Sept: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
16	16	17	18	19	20	21	22	1-29 Sept: Display of Attendance, List of defaulter students and Letter dispatching				
17	23	24	25	26	27	28	29	1-30 Sept: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
18	30	01	02	03	04	05	06	1-01 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
19	07	08	09	10	11	12	13	1-02 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
20	14	15	16	17	18	19	20	1-03 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
21	21	22	23	24	25	26	27	1-04 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
22	28	29	30	01	02	03	04	1-05 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
23	05	06	07	08	09	10	11	1-06 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
24	12	13	14	15	16	17	18	1-07 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
25	19	20	21	22	23	24	25	1-08 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
26	26	27	28	29	30	01	02	1-09 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
27	03	04	05	06	07	08	09	1-10 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
28	10	11	12	13	14	15	16	1-11 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
29	17	18	19	20	21	22	23	1-12 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
30	24	25	26	27	28	29	30	1-13 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
31	01	02	03	04	05	06	07	1-14 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
32	08	09	10	11	12	13	14	1-15 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
33	15	16	17	18	19	20	21	1-16 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
34	22	23	24	25	26	27	28	1-17 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
35	29	30	01	02	03	04	05	1-18 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
36	06	07	08	09	10	11	12	1-19 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
37	13	14	15	16	17	18	19	1-20 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
38	20	21	22	23	24	25	26	1-21 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
39	27	28	29	30	01	02	03	1-22 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
40	04	05	06	07	08	09	10	1-23 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
41	11	12	13	14	15	16	17	1-24 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
42	18	19	20	21	22	23	24	1-25 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
43	25	26	27	28	29	30	01	1-26 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
44	02	03	04	05	06	07	08	1-27 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
45	09	10	11	12	13	14	15	1-28 Oct: Display of Attendance, List of defaulter students and Letter dispatching				
46	16	17	18	19	20	21	22	1-29 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
47	23	24	25	26	27	28	29	1-30 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
48	30	01	02	03	04	05	06	1-31 Oct: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
49	07	08	09	10	11	12	13	1-01 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
50	14	15	16	17	18	19	20	1-02 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
51	21	22	23	24	25	26	27	1-03 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
52	28	29	30	01	02	03	04	1-04 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
53	05	06	07	08	09	10	11	1-05 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
54	12	13	14	15	16	17	18	1-06 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
55	19	20	21	22	23	24	25	1-07 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
56	26	27	28	29	30	01	02	1-08 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
57	03	04	05	06	07	08	09	1-09 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
58	10	11	12	13	14	15	16	1-10 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
59	17	18	19	20	21	22	23	1-11 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
60	24	25	26	27	28	29	30	1-12 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
61	01	02	03	04	05	06	07	1-13 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
62	08	09	10	11	12	13	14	1-14 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
63	15	16	17	18	19	20	21	1-15 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
64	22	23	24	25	26	27	28	1-16 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
65	29	30	01	02	03	04	05	1-17 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
66	06	07	08	09	10	11	12	1-18 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
67	13	14	15	16	17	18	19	1-19 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
68	20	21	22	23	24	25	26	1-20 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
69	27	28	29	30	01	02	03	1-21 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
70	04	05	06	07	08	09	10	1-22 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
71	11	12	13	14	15	16	17	1-23 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
72	18	19	20	21	22	23	24	1-24 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
73	25	26	27	28	29	30	01	1-25 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
74	02	03	04	05	06	07	08	1-26 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
75	09	10	11	12	13	14	15	1-27 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
76	16	17	18	19	20	21	22	1-28 Nov: Display of Attendance, List of defaulter students and Letter dispatching				
77	23	24	25	26	27	28	29	1-29 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
78	30	01	02	03	04	05	06	1-30 Nov: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
79	07	08	09	10	11	12	13	1-01 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
80	14	15	16	17	18	19	20	1-02 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
81	21	22	23	24	25	26	27	1-03 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
82	28	29	30	01	02	03	04	1-04 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
83	05	06	07	08	09	10	11	1-05 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
84	12	13	14	15	16	17	18	1-06 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
85	19	20	21	22	23	24	25	1-07 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
86	26	27	28	29	30	01	02	1-08 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
87	03	04	05	06	07	08	09	1-09 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
88	10	11	12	13	14	15	16	1-10 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
89	17	18	19	20	21	22	23	1-11 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
90	24	25	26	27	28	29	30	1-12 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
91	01	02	03	04	05	06	07	1-13 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
92	08	09	10	11	12	13	14	1-14 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
93	15	16	17	18	19	20	21	1-15 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
94	22	23	24	25	26	27	28	1-16 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
95	29	30	01	02	03	04	05	1-17 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
96	06	07	08	09	10	11	12	1-18 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
97	13	14	15	16	17	18	19	1-19 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
98	20	21	22	23	24	25	26	1-20 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
99	27	28	29	30	01	02	03	1-21 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
100	04	05	06	07	08	09	10	1-22 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
101	11	12	13	14	15	16	17	1-23 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
102	18	19	20	21	22	23	24	1-24 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
103	25	26	27	28	29	30	01	1-25 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
104	02	03	04	05	06	07	08	1-26 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
105	09	10	11	12	13	14	15	1-27 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
106	16	17	18	19	20	21	22	1-28 Dec: Display of Attendance, List of defaulter students and Letter dispatching				
107	23	24	25	26	27	28	29	1-29 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
108	30	01	02	03	04	05	06	1-30 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
109	07	08	09	10	11	12	13	1-31 Dec: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
110	14	15	16	17	18	19	20	1-01 Jan: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
111	21	22	23	24	25	26	27	1-02 Jan: Display of Attendance, List of defaulter students and Letter dispatching				
112	28	29	30	01	02	03	04	1-03 Jan: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
113	05	06	07	08	09	10	11	1-04 Jan: Display of Attendance, List of defaulter students and Letter dispatching				
114	12	13	14	15	16	17	18	1-05 Jan: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
115	19	20	21	22	23	24	25	1-06 Jan: Display of Attendance, List of defaulter students and Letter dispatching				
116	26	27	28	29	30	01	02	1-07 Jan: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
117	03	04	05	06	07	08	09	1-08 Jan: Display of Attendance, List of defaulter students and Letter dispatching				
118	10	11	12	13	14	15	16	1-09 Jan: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
119	17	18	19	20	21	22	23	1-10 Jan: Display of Attendance, List of defaulter students and Letter dispatching				
120	24	25	26	27	28	29	30	1-11 Jan: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
121	01	02	03	04	05	06	07	1-12 Jan: Display of Attendance, List of defaulter students and Letter dispatching				
122	08	09	10	11	12	13	14	1-13 Jan: Guest Lecture/Industrial Visit/ Statutory Committee meeting				
123	15	16	17</									

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

September 2022									
Sl. No.	Week	Days	Date	Event	Remarks	Sl. No.	Week	Days	Date
1	1	T	5	1	1	1	1	T	5
2	2	F	6	2	2	2	2	F	6
3	3	S	7	3	3	3	3	S	7
4	4	T	8	4	4	4	4	T	8
5	5	F	9	5	5	5	5	F	9
6	6	S	10	6	6	6	6	S	10
7	7	T	11	7	7	7	7	T	11
8	8	F	12	8	8	8	8	F	12
9	9	S	13	9	9	9	9	S	13
10	10	T	14	10	10	10	10	T	14
11	11	F	15	11	11	11	11	F	15
12	12	S	16	12	12	12	12	S	16
13	13	T	17	13	13	13	13	T	17
14	14	F	18	14	14	14	14	F	18
15	15	S	19	15	15	15	15	S	19
16	16	T	20	16	16	16	16	T	20
17	17	F	21	17	17	17	17	F	21
18	18	S	22	18	18	18	18	S	22
19	19	T	23	19	19	19	19	T	23
20	20	F	24	20	20	20	20	F	24
21	21	S	25	21	21	21	21	S	25
22	22	T	26	22	22	22	22	T	26
23	23	F	27	23	23	23	23	F	27
24	24	S	28	24	24	24	24	S	28
25	25	T	29	25	25	25	25	T	29
26	26	F	30	26	26	26	26	F	30
27	27	S	1	27	27	27	27	S	1
28	28	T	2	28	28	28	28	T	2
29	29	F	3	29	29	29	29	F	3
30	30	S	4	30	30	30	30	S	4
31	31	T	5	31	31	31	31	T	5
32	32	F	6	32	32	32	32	F	6
33	33	S	7	33	33	33	33	S	7
34	34	T	8	34	34	34	34	T	8
35	35	F	9	35	35	35	35	F	9
36	36	S	10	36	36	36	36	S	10
37	37	T	11	37	37	37	37	T	11
38	38	F	12	38	38	38	38	F	12
39	39	S	13	39	39	39	39	S	13
40	40	T	14	40	40	40	40	T	14
41	41	F	15	41	41	41	41	F	15
42	42	S	16	42	42	42	42	S	16
43	43	T	17	43	43	43	43	T	17
44	44	F	18	44	44	44	44	F	18
45	45	S	19	45	45	45	45	S	19
46	46	T	20	46	46	46	46	T	20
47	47	F	21	47	47	47	47	F	21
48	48	S	22	48	48	48	48	S	22
49	49	T	23	49	49	49	49	T	23
50	50	F	24	50	50	50	50	F	24
51	51	S	25	51	51	51	51	S	25
52	52	T	26	52	52	52	52	T	26
53	53	F	27	53	53	53	53	F	27
54	54	S	28	54	54	54	54	S	28
55	55	T	29	55	55	55	55	T	29
56	56	F	30	56	56	56	56	F	30
57	57	S	1	57	57	57	57	S	1
58	58	T	2	58	58	58	58	T	2
59	59	F	3	59	59	59	59	F	3
60	60	S	4	60	60	60	60	S	4
61	61	T	5	61	61	61	61	T	5
62	62	F	6	62	62	62	62	F	6
63	63	S	7	63	63	63	63	S	7
64	64	T	8	64	64	64	64	T	8
65	65	F	9	65	65	65	65	F	9
66	66	S	10	66	66	66	66	S	10
67	67	T	11	67	67	67	67	T	11
68	68	F	12	68	68	68	68	F	12
69	69	S	13	69	69	69	69	S	13
70	70	T	14	70	70	70	70	T	14
71	71	F	15	71	71	71	71	F	15
72	72	S	16	72	72	72	72	S	16
73	73	T	17	73	73	73	73	T	17
74	74	F	18	74	74	74	74	F	18
75	75	S	19	75	75	75	75	S	19
76	76	T	20	76	76	76	76	T	20
77	77	F	21	77	77	77	77	F	21
78	78	S	22	78	78	78	78	S	22
79	79	T	23	79	79	79	79	T	23
80	80	F	24	80	80	80	80	F	24
81	81	S	25	81	81	81	81	S	25
82	82	T	26	82	82	82	82	T	26
83	83	F	27	83	83	83	83	F	27
84	84	S	28	84	84	84	84	S	28
85	85	T	29	85	85	85	85	T	29
86	86	F	30	86	86	86	86	F	30
87	87	S	1	87	87	87	87	S	1
88	88	T	2	88	88	88	88	T	2
89	89	F	3	89	89	89	89	F	3
90	90	S	4	90	90	90	90	S	4
91	91	T	5	91	91	91	91	T	5
92	92	F	6	92	92	92	92	F	6
93	93	S	7	93	93	93	93	S	7
94	94	T	8	94	94	94	94	T	8
95	95	F	9	95	95	95	95	F	9
96	96	S	10	96	96	96	96	S	10
97	97	T	11	97	97	97	97	T	11
98	98	F	12	98	98	98	98	F	12
99	99	S	13	99	99	99	99	S	13
100	100	T	14	100	100	100	100	T	14
101	101	F	15	101	101	101	101	F	15
102	102	S	16	102	102	102	102	S	16
103	103	T	17	103	103	103	103	T	17
104	104	F	18	104	104	104	104	F	18
105	105	S	19	105	105	105	105	S	19
106	106	T	20	106	106	106	106	T	20
107	107	F	21	107	107	107	107	F	21
108	108	S	22	108	108	108	108	S	22
109	109	T	23	109	109	109	109	T	23
110	110	F	24	110	110	110	110	F	24
111	111	S	25	111	111	111	111	S	25
112	112	T	26	112	112	112	112	T	26
113	113	F	27	113	113	113	113	F	27
114	114	S	28	114	114	114	114	S	28
115	115	T	29	115	115	115	115	T	29
116	116	F	30	116	116	116	116	F	30
117	117	S	1	117	117	117	117	S	1
118	118	T	2	118	118	118	118	T	2
119	119	F	3	119	119	119	119	F	3
120	120	S	4	120	120	120	120	S	4
121	121	T	5	121	121	121	121	T	5
122	122	F	6	122	122	122	122	F	6
123	123	S	7	123	123	123	123	S	7
124	124	T	8	124	124	124	124	T	8
125	125	F	9	125	125	125	125	F	9
126	126	S	10	126	126	126	126	S	10
127	127	T	11	127	127	127	127	T	11
128	128	F	12	128	128	128	128	F	12
129	129	S	13	129	129	129	129	S	13
130	130	T	14	130	130	130	130	T	14
131	131	F	15	131	131	131	131	F	15
132	132	S	16	132	132	132	132	S	16
133	133	T	17	133	133	133	133	T	17
134	134	F	18	134	134	134	134	F	18
135	135	S	19	135	135	135	135	S	19
136	136	T	20	136	136	136	136	T	20
137	137	F	21	137	137	137	137	F	21
138	138	S	22	138	138	138	138	S	22
139	139	T	23	139	139	139	139	T	23
140	140	F	24	140	140	140	140	F	24
141	141	S	25	141	141	141	141	S	25
142	142	T	26	142	142	142	142	T	26
143	143	F	27	143	143	143	143	F	27
144	144	S	28	144	144	144	144	S	28
145	145	T	29	145	145	145	145	T	29
146	146	F	30	146	146	146	146	F	30
147	147	S	1	147	147	147	147	S	1
148	148	T	2	148	148	148	148	T	2
149	149	F	3	149	149	149	149	F	3
150	150	S	4	150	150	150	150	S	4
151	151	T	5	151	151	151	151	T	5
152	152	F	6	152	152	152	152	F	6
153	153	S	7	153	153	153	153	S	7
154	154	T	8	154	154	154	154	T	8
155	155	F	9	155	155	155	155	F	9
156	156	S	10	156	156	156	156	S	10
157	157	T	11	157	157	157	157	T	11
158	158	F	12	158	158	158	158	F	12
159	159	S	13	159	159	159	159	S	13
160	160	T	14	160	160	160	160	T	14
161	161	F	15	161	161	161	161	F	15
162	162	S	16	162	162	162	162	S	16
163	163	T	17	163	163	163	163	T	17
164	164	F	18	164	164	164	164	F	18
165	165	S	19	165	165	165	165	S	19
166	166	T	20	166	166	166	166	T	20
167	167	F	21	167	167	167	167	F	21
168	168	S	22	168	168	168	168	S	22
169	169	T	23	169	169	1			

Fig. B.2.2.1c.: Department Academic Calendar

B. Use of instructional methods and pedagogical initiatives:

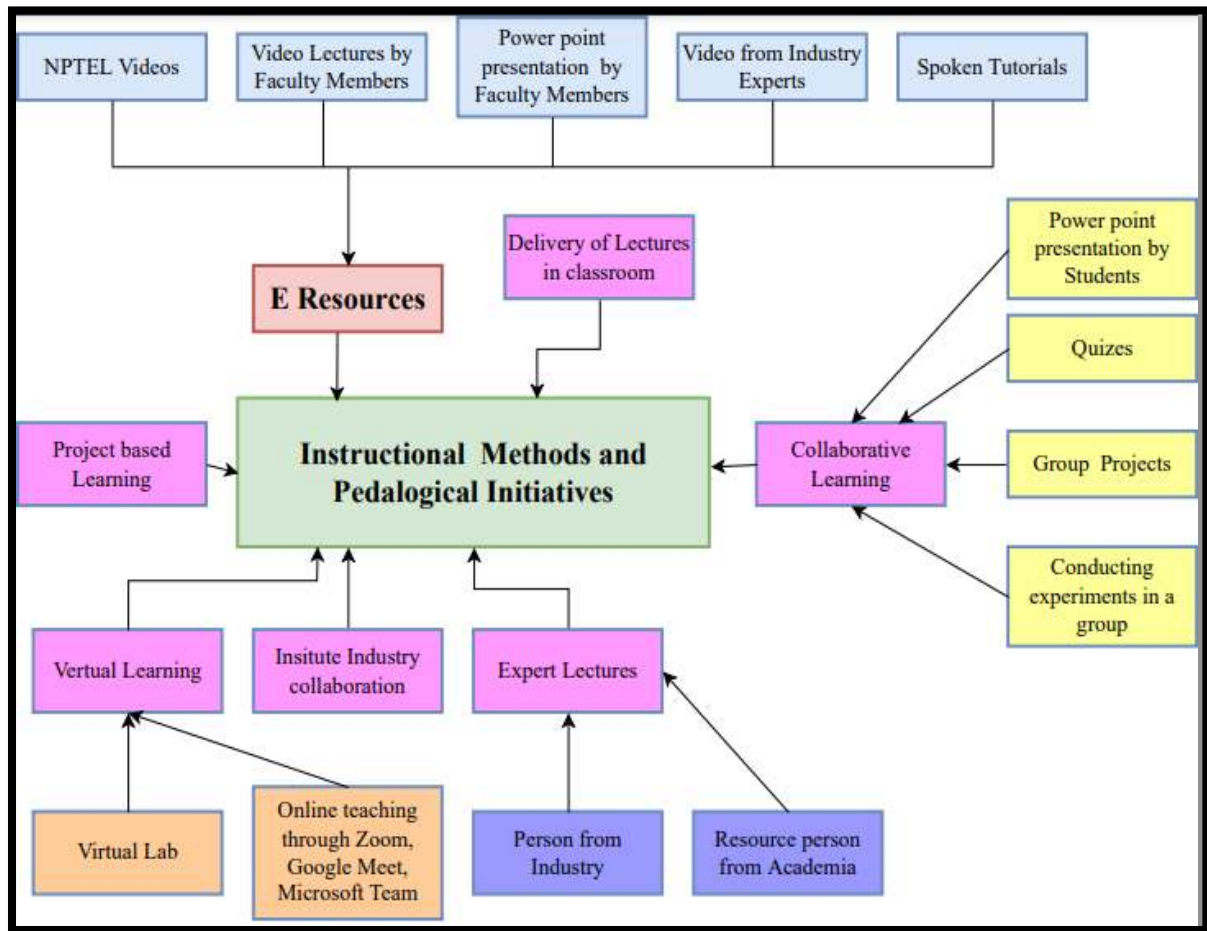


Fig. 2.2.1 d Instructional methods & pedagogy

Delivery

Faculty use various resources for class room teaching like chalk and duster, Intelligent Interactive Panel /Projector etc. Each student is free to ask any query related to the subject during lectures. Faculty members resolve the doubts of students asked during lectures.

Use of e-resources:

Faculty members use PowerPoint Presentations on difficult topics for better understanding. They also use videos of various MOOC Platforms like National Programme on Technology Enhanced Learning (NPTEL) videos, MIT Open Source Video and the videos of industry Experts.

SWAYAM-NPTEL Local Chapter

Home Downloads Fee waiver Bulk Payment Mentors NPTEL stars Logout

Manage College and SPOC Profile

College Profile SPOC Profile Req Letter Ack Letter

College Profile

College Address

GAT NO. 247, PANMALEWADI, VARYE

SATARA

MAHARASHTRA

Contact No: 8482875175

Alternate No: 8975981500

College Id : 521

Y. MULLA SAMINA
ARVIND GAWALI COLLEGE
OF ENGINEERING

SPOC Timeline

SPOC Conference
Support Request

LC Profile Changes
Request

Fig. 2.2.1 e Swayam NPTEL Local Chapter

Collaborative Learning:

Collaborative learning is the educational approach of using groups to enhance learning through working together. Groups of two or more learners work together to solve problems, complete tasks, or learn new concepts. It promotes learning from other's viewpoints, promotes listening to criticism and advice, develops public speaking and active listening skills and improves cooperation.

- Curriculum includes the subject like Seminar, Mini project, Major Project where 3-5 students
- The following methods are used for collaborative learning.

1. Project work divides in small modules and subset of students work on different modules.
2. Seminar and Power point presentation preparation activity also carried in group of 3-5 students.
3. For subject like MOS Laboratory experiments are performed in a group of 3-4 students.
4. Moodle is important ICT initiative of civil department, which is useful for collaborative learning. Various activities conducted through includes quiz, assignment, e resource sharing

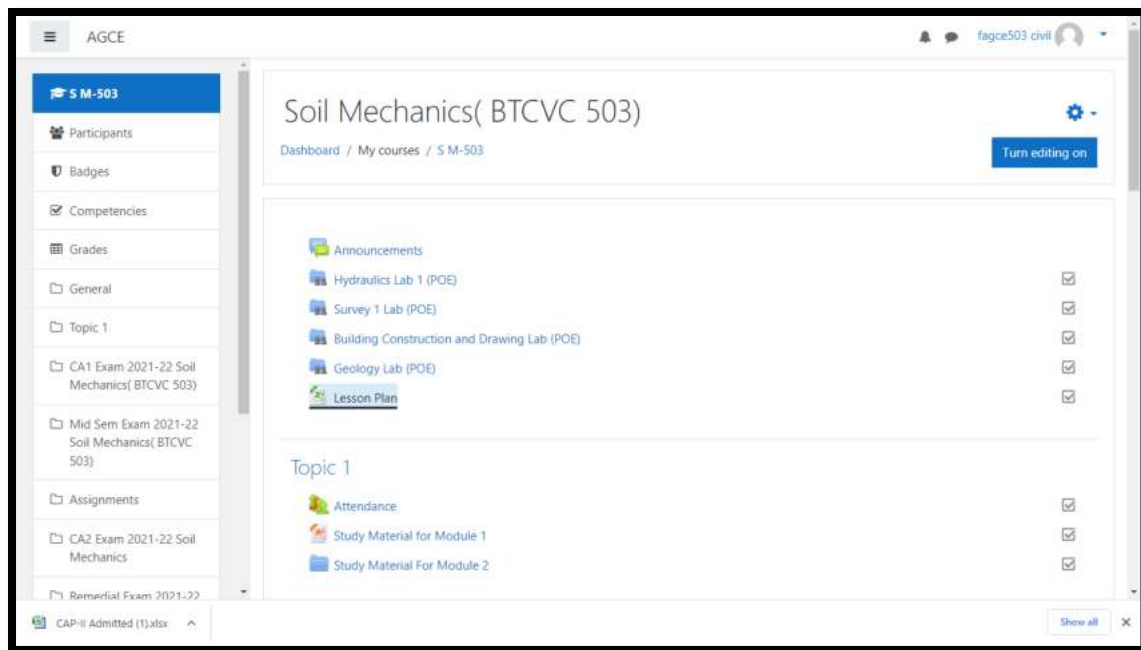


Fig. 2.2.1 f MODDLE Web

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 7 and 8 semesters, a final year project is developed by a group of students. For some academic courses, students have been encouraged to do some projects



Fig. B.2.2.1 g.: Project Demonstration

Expert Lectures:

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

Virtual Learning:

- Virtual labs: Faculty members use virtual labs of different IITs to conduct some difficult experiments of the respective labs. Instruction manuals about conduction of experiments are given in virtual labs, students follow these instruction materials to complete the experiments. There is no need to install latest software in the labs as different software and simulators are available in virtual labs.
- 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 labs online. During lockdown period faculty members taken all classes online. Some faculty members also run their own created video lectures, NPTEL and YouTube videos during online lectures using MS teams, Google meet and zoom.

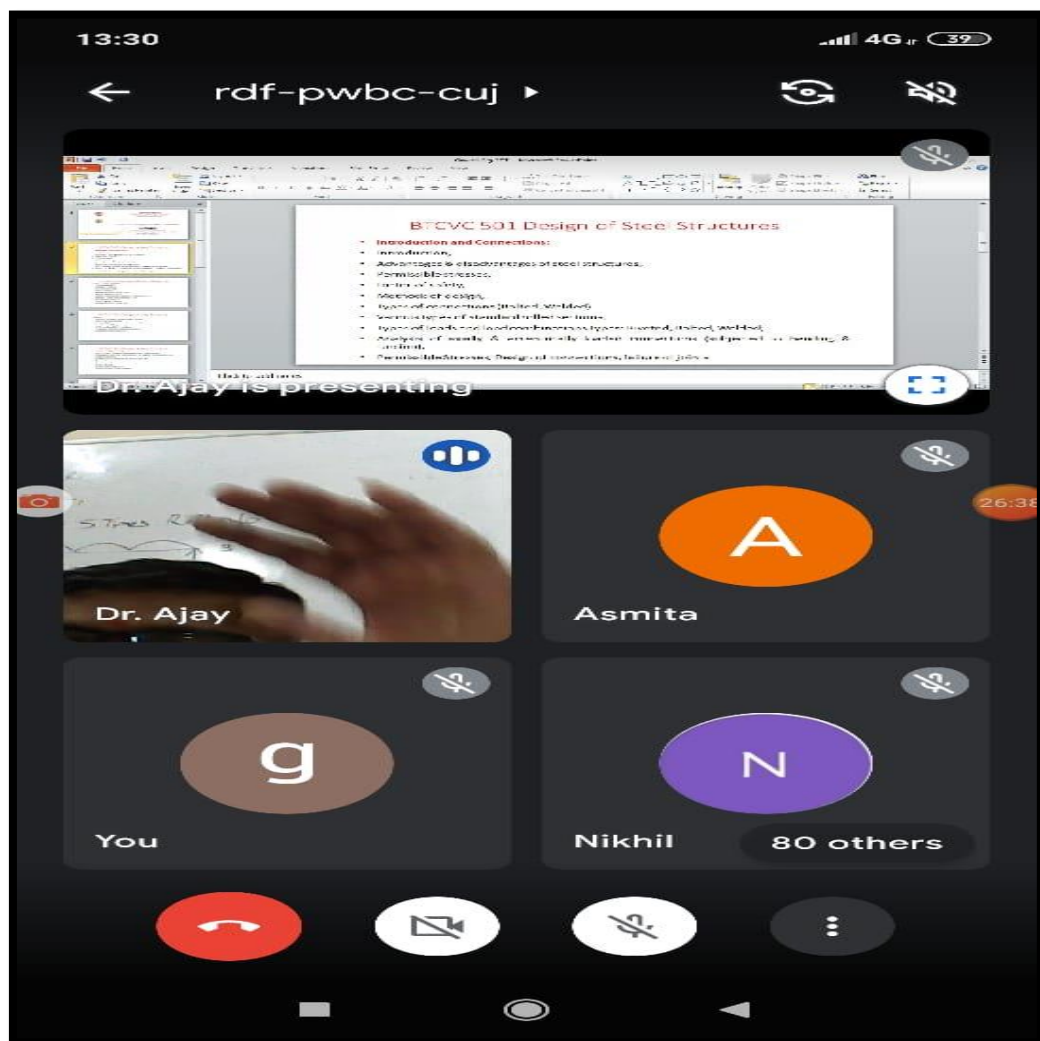


Fig. B.2.2.1 h: Online Learning on Google Meet

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 helps 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.

ENGINEERING EN 6545 B.Tech.		
Choice Code	Course Name	Intake
654561210	Mechanical Engineering	90
654537210	Electronics & Telecommunication Engg.	30
654524210	Computer Science & Engineering	120
654529310	Electrical Engineering	30
654519110	Civil Engineering	60

POLYTECHNIC EN 6545 Diploma		
Choice Code	Course Name	Intake
654561220	Mechanical Engineering	60
654537220	Electronics & Telecommunication Engg.	60
654524210	Computer Science & Engineering	60
654599910	Computer Engineering	60
654519110	Civil Engineering	60

ENGINEERING EN 6545 M.Tech.		
Choice Code	Course Name	Intake
654559610	Mechanical Heat Power Engineering	18

B. VOCATIONAL DEGREE PROGRAMS (B.Voc)		
Course Name	Data Science	Industrial Automation
	Software Development	Industrial Tool Mfg.

SCIENCE COLLEGE (11th & 12th)
PCMB + Computer Science Course (IT)

PERSONAL DETAILS (2022-23)

Name of Student :- Gaikwad Sayali Anil
 Address :- A1. Post - Kandave,
Tal. Dist - Satara
 Student Mobile No:- 9850435204
 Parent Mobile No:- 9881660598
 Parents Occupation:-
 E-mail:- gaikwad.sayali.2017@gmail.com
 Branch :- Civil
 Blood Group:- B+ve
 Class :- TY
 Roll No:- 8023
 GFM Name :- Mr. Jambali
 GFM Mob No:- 9776874216
 Note: * Students having attendance more than 75% are eligible for Institute Scholarship.
 * Laptop / Tablets are allowed during class purpose.



Institute Vision	
To be prominent institution by imparting value-added quality education that creates professional technocrats as well as entrepreneurs through lifelong learning to accomplish socio-environmental needs	

Institute Mission	
To enrich competency among technocrats by imparting technical, innovative and managerial skills.	
To educate students for effective problem solving and continual progress for dynamic careers.	
To create social & environmental awareness among students and public at large.	

Institute Core Values	
<ul style="list-style-type: none"> • Global competence. • Excellence. • Professional Ethics. • Social Responsibility. • Accountability & Transparency • Use of Technology 	

SWOC Analysis	
Strength	Weakness
1) good at	1) Speaking
2) understanding	2) English
3) good at	3) Confidence
4) drawing	4)
5)	5)
Opportunities	Challenges
1) want to	1) Complete
2) get government	2) degree
3) job or	3) Learn almost
4)	4) all software
5)	5) used in civil eng
GFM Remark: <i>Butt...</i>	

Fig. B.2.2.1 i: Student Progress Diary

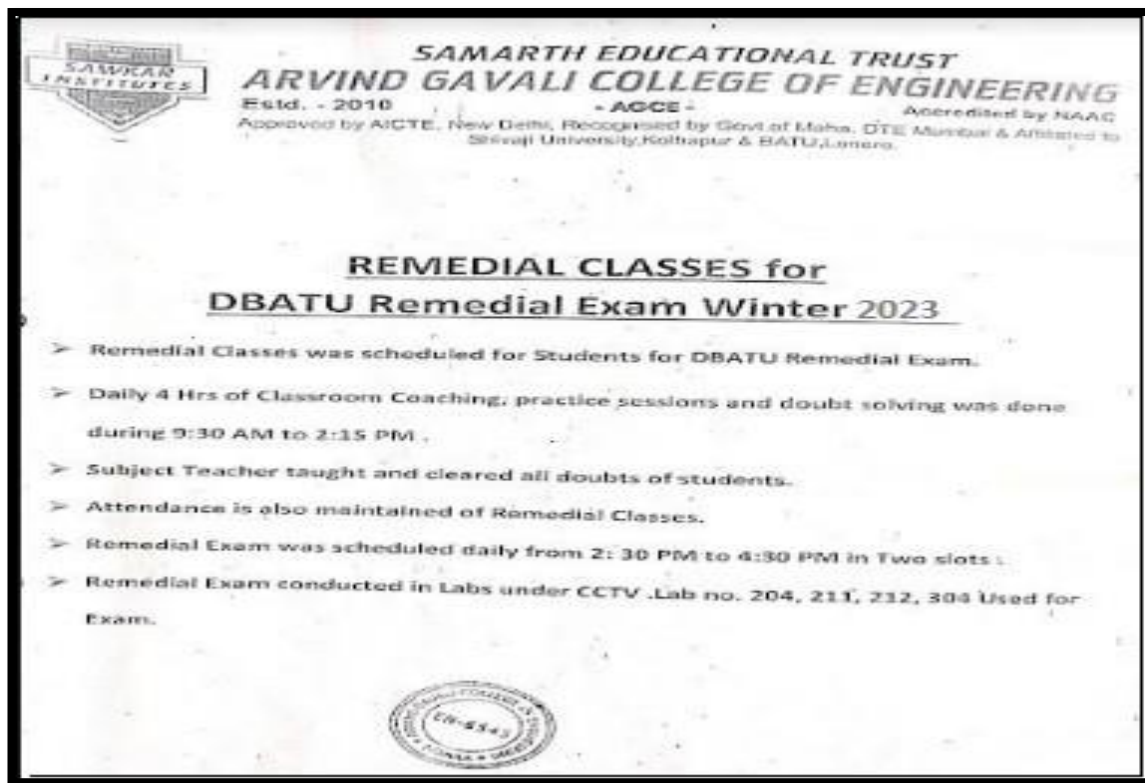


Fig. B.2.2.1 j: Sample Notice of Remedial Classes

DEPARTMENT OF CIVIL ENGINEERING				
Remedial Examination Schedule (Monday to Friday)				
DAY	Monday	subject	Faculty Name	TIME
Date	5/5/2023	Design of steel structure	Mr.Katkar R.A	9:30am to 11:30 pm 1:00 pm to 2:50 pm 3:00pm to 5:00pm
DAY	Tuesday	subject	Faculty Name	TIME
Date	6/5/2023	Geotechnical engineering	MRS.Chaudhari S.S	9:30am to 11:30 pm 1:00 pm to 2:50 pm 3:00pm to 5:00pm
DAY	Wednesday	subject	Faculty Name	TIME
Date	7/5/2023	Structural Mechanics-II	Mr.Katkar R.A	9:30am to 11:30 pm 1:00 pm to 2:50 pm 3:00pm to 5:00pm
DAY	Thursday	subject	Faculty Name	TIME
Date	8/5/2023	Design of steel structure	Mr.Katkar R.A	9:30am to 11:30 5pm 1:00 pm to 2:50 pm 3:00pm to 5:00pm
DAY	friday	subject	Faculty Name	TIME
Date	9/5/2023	Structural Mechanics-II	Mr.Sapkal R.N	9:30am to 11:30 pm 1:00 pm to 2:50 pm 3:00 pm to 5:00 pm

 AMC Member
  Head Engineer, Civil Department
 ARVIND GAVALI COLLEGE OF ENGINEERING, Satara
 Panmalewadi (Varvel)
  Principal

Fig. B.2.2.1 k: Sample Remedial Classes Time Table

Brighten students are encouraged to learn content beyond the syllabus 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 GPS Surveying, Fluid Mechanics, etc. are made available to bright students.

This enables the bright students:

- Update themselves with the latest tools and technologies
- Demonstrate critical thinking and take up innovative projects
- Taking up higher studies in the field of research and development enhances their skill and managerial quality to become successful entrepreneurs/employees.

1.2.1 Number of Add on /Certificate programs offered during the last five years

1.2.2 Percentage of students enrolled in Certificate /Add-on/ Value added programs as against the total number of students during the last five years

Department of Civil Engineering

2020 Year 1

Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
					60 + 0 Faculty	
Geotechnical Engineering Laboratory	noc22-ce60	Jul-Dec 2022	1	8 week	1+0	0
Geotechnical Engineering-II	noc22-ce96	Jul-Dec 2022	1	8 week	1+0	0
Housing Policy & Planning	noc22-ce52	Jul-Dec 2022	1	8 week	1+0	0
C Programming and Assembly Language	noc22-ce68	Jul-Dec 2022	1	8 week	1+0	0
Building Materials and Composites	noc22-ar14	Jul-Dec 2022	1	8 week	1+0	0
An Introduction to Artificial Intelligence	noc22-ce56	Jan-Apr 2022	1	8 week	48+0	0
Maintenance and Repair of Concrete Structures	noc22-ce12	Jan-Apr 2022	1	8 week	42+0	0
Geographic Information Systems	noc22-ce26	Jan-Apr 2022	1	8 week	1+0	0
Soil Structure Interaction	noc22-ce36	Jan-Apr 2022	1	8 week	40+0	0
Introduction to Civil Engineering Profession	noc22-ce42	Jan-Apr 2022	1	8 week	7+0	0
Environmental Impact Assessment	noc22-ar07	Jan-Apr 2022	1	8 week	1+0	0
Applied Environmental Microbiology	noc22-ce15	Jan-Apr 2022	1	8 week	1+0	0
Advanced Foundation Engineering	noc22-ce32	Jan-Apr 2022	1	8 week	2+0	0
Advanced Soil Mechanics	noc22-ce25	Jan-Apr 2022	1	8 week	1+0	0
Artificial Intelligence: Knowledge Representation And Reasoning	noc22-cs02	Jan-Apr 2022	1	8 week	1+0	0
Probability Methods in Civil Engineering	noc22-ce31	Jan-Apr 2022	1	8 week	1+0	0
Soft Skill Development	noc22-hs07	Jan-Apr 2022	1	8 week	1+0	0
Development and Applications of Special Concretes	noc22-ce09	Jan-Apr 2022	1	8 week	1+0	0
Advanced Computer Architecture	noc22-cs10	Jan-Apr 2022	1	8 week	1+0	0
Scheduling Techniques in Projects	noc22-ce38	Jan-Apr 2022	1	8 week	1+0	0
Remote Sensing Essentials	noc22-ce10	Jan-Apr 2022	1	8 week	2+0	0
Geosynthetics And Reinforced Soil Structures	noc22-ce11	Jan-Apr 2022	1	8 week	2+0	0
Mechanical Characterization of Bituminous Materials	noc22-ce47	Jan-Apr 2022	1	8 week	2+0	0

Fig. B.2.2.1 I: Sample NPTEL Enrollment



Fig. B.2.2.1 m: Sample NPTEL Certificate

Department selects one of the final year students as the “Best out-going student” of the program and student is suitably rewarded for one’s bright performance. Selection is carried 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, university marks. Following table shows last three years best outgoing students.

Table B.2.2.1a: Best outgoing student award

Sr. No.	Name of Student	Academic Year	Best Outgoing Student
1	Shibe Sneha Tanaji	2022-23	Best Outgoing Student
2	Kharade Akshada	2021-22	Best Outgoing Student
3	Dhorke Vikas Jaising	2020-21	Best Outgoing Student
4	Desai Anuradha Ashok	2019-20	Best Outgoing Student

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 Power Points 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 civil engineering department are equipped with enough number of instrument required for the performance of various experiments.

1. Each student performs experiments.
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**
 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 : Tilven Pooze Class & Department : TY Civil
 Roll No. : 2165451191526 Subject : Geotechnical Engg.

Exp No.	Exp Name	Date of Conduction	Laboratory Assessment				Faculty Sign with Date	
			Timely submission (02)	Neatness (04)	Understanding (04)	Total (10)		
1.	Specific gravity determination coarse and fine aggregate	15/9/22	02	03	03	08	Katkar 15/9/22	
2.	To determine plastic limit soil	22/9/22	02	04	03	09	Katkar 22/9/22	
3.	To determine core cutter method	13/10/22	02	03	03	08	Katkar 13/10/22	
4.	To determine of direct shear test	20/10/22	02	03	03	08	Katkar 20/10/22	
5.	To determine liquid limit	3/10/22	02	04	03	09	Katkar 3/10/22	
6.	To determine oven drying method	10/11/22	02	04	03	09	Katkar 10/11/22	
7.	To determine sand replacement method	19/11/22	02	04	03	09	Katkar 19/11/22	
CA1 Average marks of laboratory experiment (10)								
8.	To determine reln b/w the moisture content and the dry density of soil	24/11/22	02	03	04	09	Katkar 24/11/22	
9.	To determine the particles size distribution sieving	8/12/22	02	04	03	09	Katkar 8/12/22	
10.	To determine the Permeability of a given soil using falling or constant head permeability	15/12/22	02	04	03	09	Katkar 15/12/22	
CA2 Average marks of laboratory experiment (10)								

	Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)		Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)
CA1	09	03	08	04	24	CA2	09	03	07	04	23

Tilven Pooze
 Student Sign.

Katkar
 Faculty Sign.
 (Prof. Ranjit. A. Katkar)

Fig.2.2.1 p. Sample 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).

Arvind Gavali College of Engineering, Satara Department of Civil Engineering

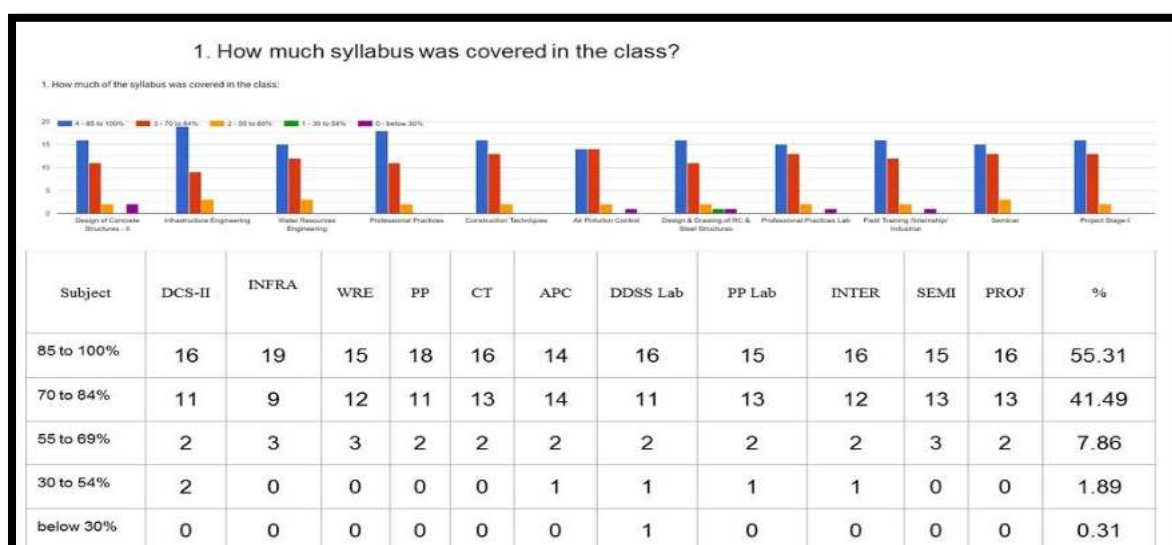
Final Year Feedback

Month- Nov/Dec 2022-23

Total Responses:-35

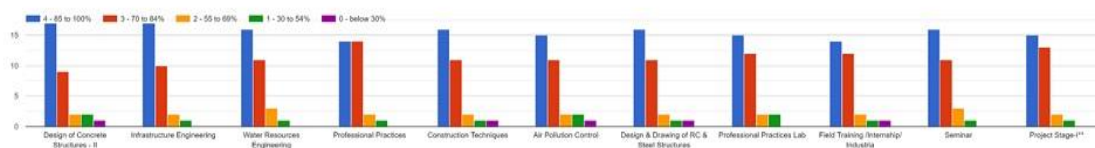
Total Class Strength-65

Feedback Percentage:-54%



2. How well teachers are prepared for the classes?

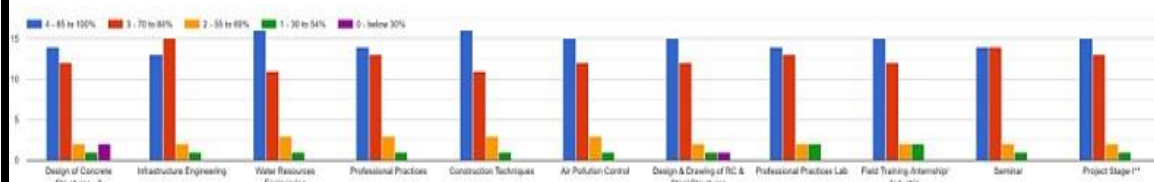
2. How well did the teachers prepare for the classes?



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	17	17	16	14	16	15	16	15	14	16	15	53.74
70 to 84%	9	10	11	14	11	11	11	12	12	11	13	39.29
55 to 69%	2	2	3	2	2	2	2	2	2	3	2	7.54
30 to 54%	2	1	1	1	1	2	1	2	1	1	1	4.40
below 30%	1	0	0	0	1	1	1	0	1	0	0	1.57

3. How well were the teachers able to communicate

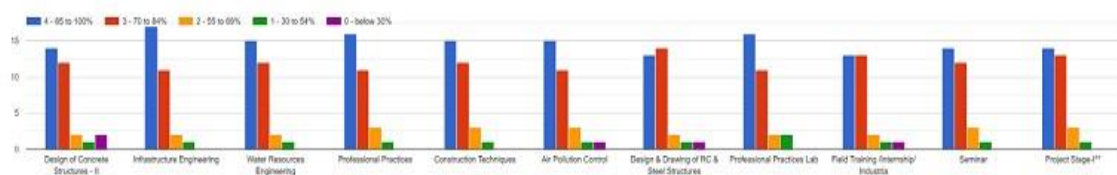
3. How well were the teachers able to communicate



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	13	16	14	16	15	15	14	15	14	15	50.60
70 to 84%	12	15	11	13	11	12	12	13	12	14	13	43.37
55 to 69%	2	2	3	3	3	3	2	2	2	2	2	8.17
30 to 54%	1	1	1	1	1	1	1	2	2	1	1	4.09
below 30%	2	0	0	0	0	0	1	0	0	0	0	0.94

4. The teachers' approach to teaching can best be described as:

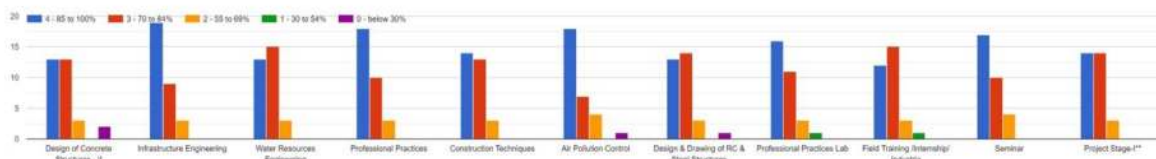
4. The teachers' approach to teaching can best be described as:



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	17	15	16	15	15	13	16	13	14	14	50.91
70 to 84%	12	11	12	11	12	11	14	11	13	12	13	41.49
55 to 69%	2	2	2	3	3	3	2	2	2	3	3	8.49
30 to 54%	1	1	1	1	1	1	1	2	1	1	1	3.77
below 30%	2	0	0	0	0	1	1	0	1	0	0	1.57

5. Fairness of the internal evaluation process by the teachers

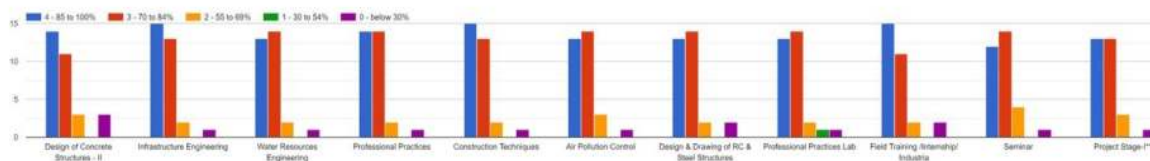
5. Fairness of the internal evaluation process by the teachers



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	19	13	18	14	18	13	16	12	17	14	52.49
70 to 84%	13	9	15	10	13	7	14	11	15	10	14	41.17
55 to 69%	3	3	3	3	3	4	3	3	3	4	3	11.00
30 to 54%	2	0	0	0	0	1	1	1	1	0	0	1.89
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

6. Was your performance in assignments/extra practice test discussed with you?

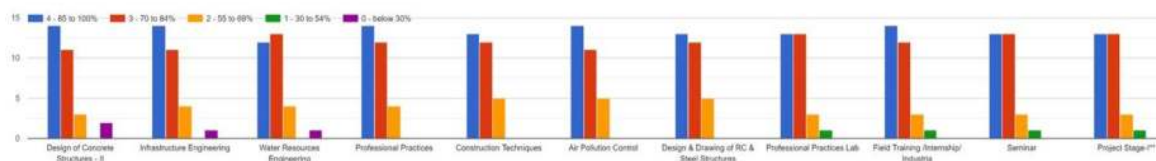
6. Was your performance in assignments/extra practice test discussed with you?



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	15	13	14	15	13	13	13	15	12	13	47.14
70 to 84%	11	13	14	14	13	14	14	14	11	14	13	45.57
55 to 69%	3	2	2	2	2	3	2	2	2	4	3	8.49
30 to 54%	3	1	1	1	1	1	2	1	2	1	1	4.71
below 30%	0	0	0	0	0	0	0	1	0	0	0	0.31

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

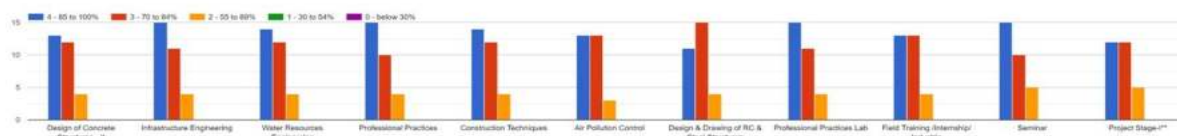
7. The faculty takes active interest in promoting internship, student exchange, field visit opportunities for students. *



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	14	12	14	13	14	13	13	14	13	113	77.63
70 to 84%	11	11	13	12	12	11	12	13	12	13	13	41.80
55 to 69%	3	4	4	4	5	5	5	3	3	3	3	13.20
30 to 54%	2	1	1	0	0	0	0	1	1	1	1	2.51
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

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

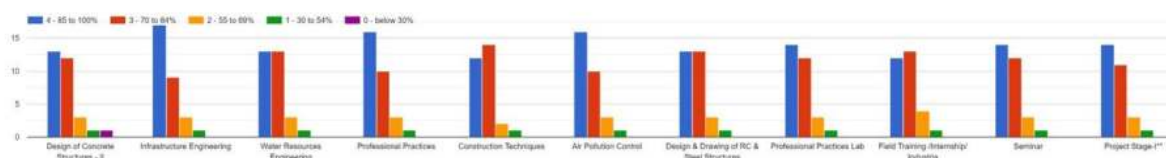
8. The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	15	14	15	14	13	11	15	13	15	12	47.14
70 to 84%	12	11	12	10	12	13	15	11	13	10	12	41.17
55 to 69%	4	4	4	4	4	3	4	4	4	5	5	14.14
30 to 54%	0	0	0	0	0	0	0	0	0	0	0	0
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

9. The institute provides multiple opportunities to learn and grow

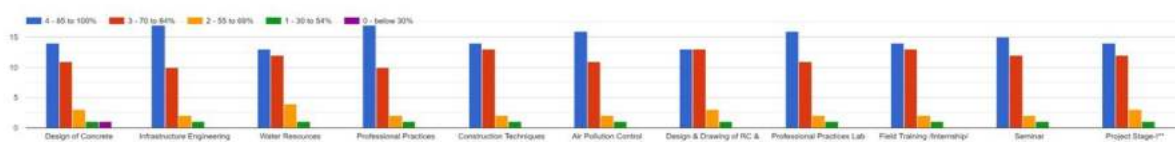
9. The institute provides multiple opportunities to learn and grow



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	17	13	16	12	16	13	14	12	14	14	48.40
70 to 84%	12	9	13	10	14	10	13	12	13	12	11	40.54
55 to 69%	3	3	3	3	2	3	3	3	4	3	3	10.37
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	0	0	0	0	0	0	0.31

10. Teachers inform you about your expected competencies, course outcomes, and program outcomes

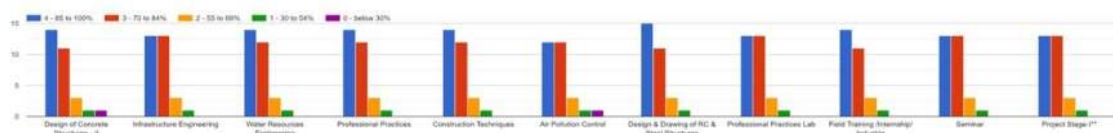
10. Teachers inform you about your expected competencies, course outcomes, and program outcomes



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	17	13	17	14	16	13	16	14	15	14	51.23
70 to 84%	11	10	12	10	13	11	13	11	13	12	12	40.23
55 to 69%	3	2	4	2	2	2	3	2	2	2	3	8.49
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	0	0	0	0	0	0	0.31

11. Your mentor does a necessary follow-up with as assigned task to you

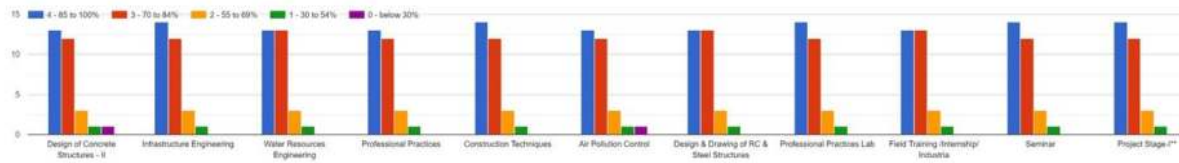
11. Your mentor does a necessary follow-up with as assigned task to you



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	13	14	14	14	12	15	13	14	13	13	46.83
70 to 84%	11	31	12	12	12	12	11	13	11	13	13	47.46
55 to 69%	3	3	3	3	3	3	3	3	3	3	3	10.37
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	1	0	0	0	0	0	0.63

12. The teacher illustrates the concepts through examples and applications

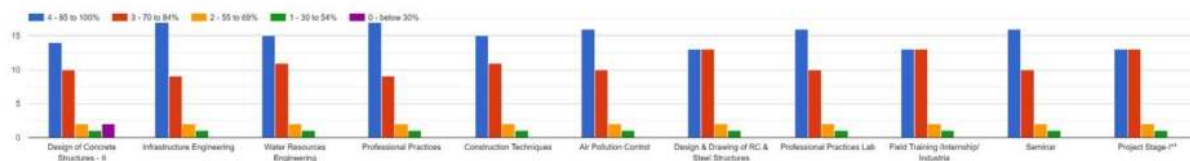
12. The teacher illustrates the concepts through examples and applications



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	14	13	13	14	13	13	14	13	14	14	46.51
70 to 84%	12	12	13	12	12	12	13	12	13	12	12	42.43
55 to 69%	3	3	3	3	3	3	3	3	3	3	3	10.37
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	1	0	0	0	0	0	0.63

13. The teacher identifies your strengths and encourage you with providing right level of challenges

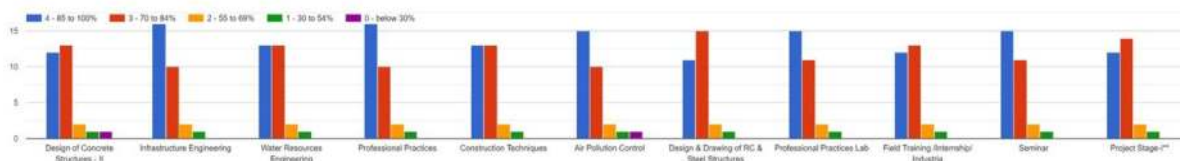
13. The teacher identifies your strengths and encourage you with providing right level of challenges



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	17	15	17	15	16	13	16	13	16	13	51.86
70 to 84%	10	9	11	9	11	10	13	10	13	10	13	37.40
55 to 69%	2	2	2	2	2	2	2	2	2	2	2	6.91
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	2	0	0	0	0	0	0	0	0	0	0	0.63

14. Teachers are able to identify your weaknesses and help you to overcome them

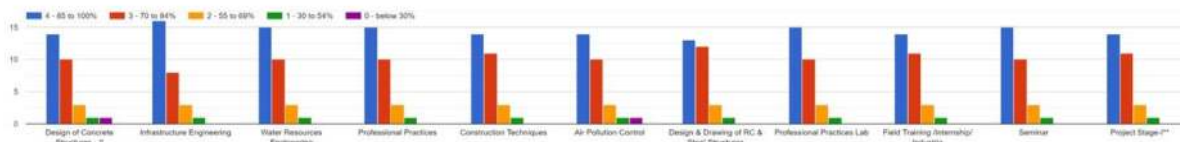
14. Teachers are able to identify your weaknesses and help you to overcome them



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	12	16	13	16	13	15	11	15	12	15	12	47.14
70 to 84%	13	10	13	10	13	10	15	11	13	11	14	41.80
55 to 69%	2	2	2	2	2	2	2	2	2	2	2	6.91
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	1	0	0	0	0	0	0.63

15. The institution makes effort to engage students in the monitoring, review and continuous quality

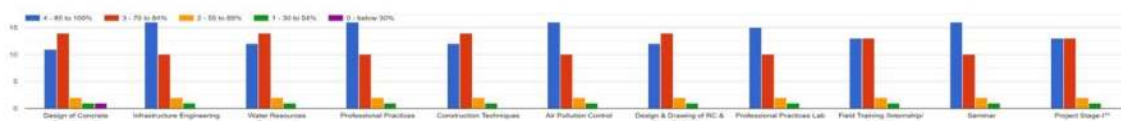
15. The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	16	15	15	14	14	13	15	14	15	14	49.97
70 to 84%	10	8	10	10	11	10	12	10	11	10	11	35.51
55 to 69%	3	3	3	3	3	3	3	3	3	3	3	10.37
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	1	0	0	0	0	0	0.63

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

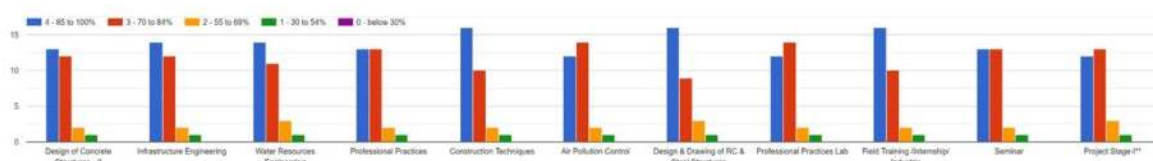
16. The institute/ teachers use student-centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	11	16	12	16	12	16	12	15	13	16	13	47.77
70 to 84%	14	10	14	10	14	10	14	10	13	10	13	41.49
55 to 69%	2	2	2	2	2	2	2	2	2	2	2	6.91
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	0	0	0	0	0	0	0.31

17. Teachers encourage you to participate in extracurricular activities.

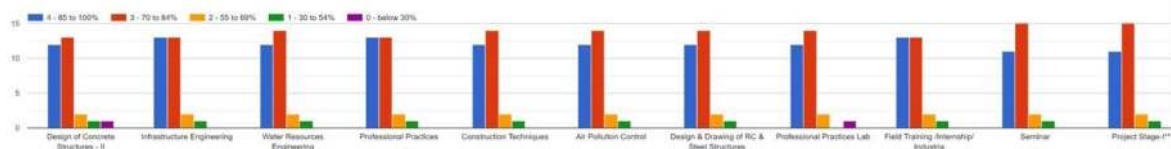
17. Teachers encourage you to participate in extracurricular activities.



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	14	14	13	16	12	16	12	16	13	12	47.46
70 to 84%	12	12	11	13	10	14	9	14	10	13	13	41.17
55 to 69%	2	2	3	2	2	2	3	2	2	2	3	7.86
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

18. Efforts are made by teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work

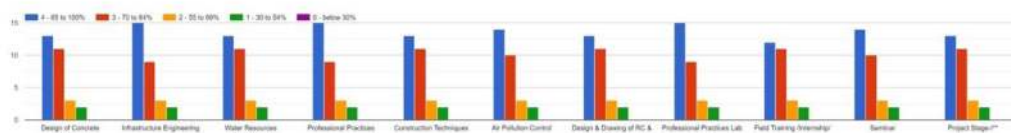
18. Efforts are made by teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	12	13	12	13	12	12	12	12	13	11	11	41.80
70 to 84%	13	13	14	13	14	14	14	14	13	15	15	47.77
55 to 69%	2	2	2	2	2	2	2	2	2	2	2	6.91
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	0	0	0	0	0	0	0.31

19. What percentage of teachers use ICT tools such as LCD projector, Multimedia, etc while teaching

19. What percentage of teachers use ICT tools such as LCD projector, Multimedia, etc while teaching



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	15	13	15	13	14	13	15	12	14	13	47.14
70 to 84%	11	9	11	9	11	10	11	9	11	10	11	35.51
55 to 69%	3	3	3	3	3	3	3	3	3	3	3	10.37
30 to 54%	2	2	2	2	2	2	2	2	2	2	2	6.91
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

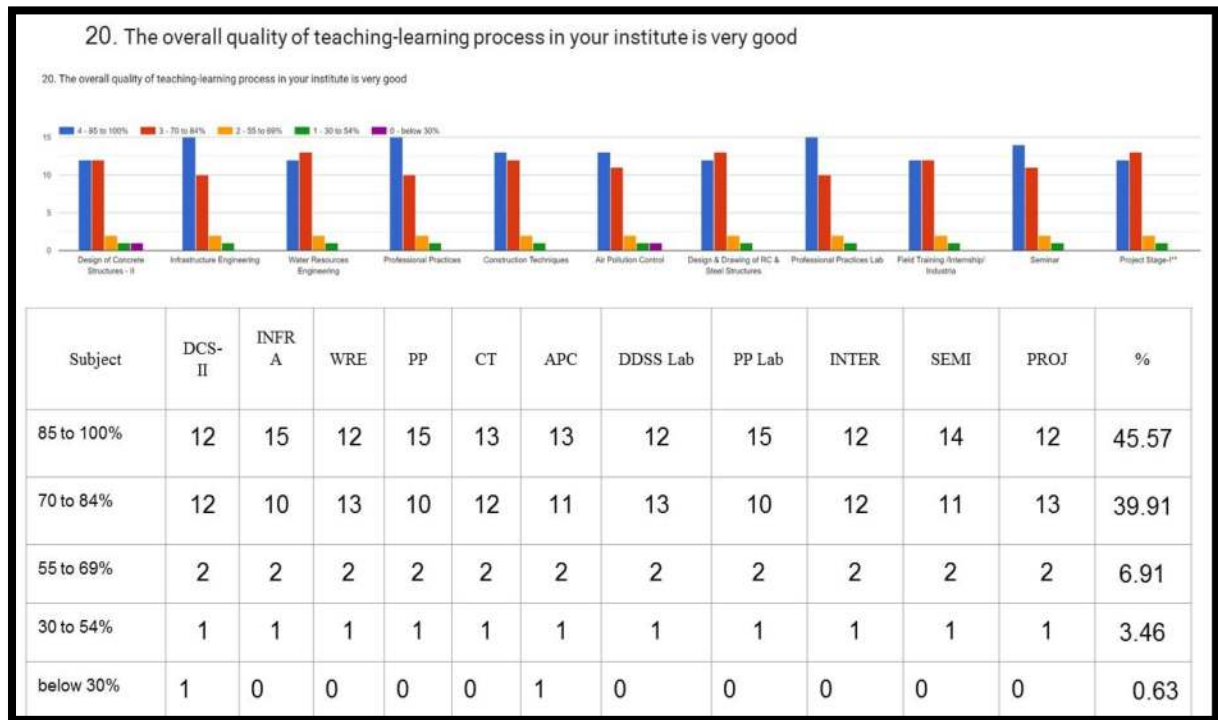


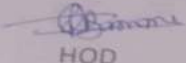
Fig.2.2.1 q. Sample Online Feedback Form

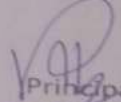
Overall Analysis

Subject	Faculty	Avg. %	Appreciation	Suggestion for Improvement
Design of Concrete Structures - II	Dr.P.R.Bamane	86%	Satisfactory design examples given to students	Provide notes on time
Infrastructure Engineering	Ms. D.S. Jadhav	86%	Explanation method and providing notes on time	Provide important questions
Water Resources Engineering	Mr. M.S. Shikalgar	87%	Syllabus Coverage	Provide information according to competitive exam
Professional Practices	Mr.R.N.Sakpal	86%	Teaching Method	Provide PPT and Videos
Construction Techniques	Mr.R.N.Sakpal	86%	Concept clearance	Explain future scope of subject to students


 Head Engineering Civil Department
 JYOTI CAVALI COLLEGE OF ENGINEERING, Satara
 Panmalewadi (Varva)

Action Taken				
Subject	Faculty	Suggestions for improvement	Action	Remark of HOD
DCS-II	PHB	Provide more notes	material is up loaded on moodle	faculty uploaded notes on moodle
INFRA	DSJ	—	—	—
WRE	MSS	—	—	—
PP	WNS	use of ICT tools	should provide PPTs	PPTs should give 2 short questions
CT	RNS	—	—	—
APC	DSJ	Provide notes on time	material should upload on moodle	Faculty must upload notes on moodle
GDPA Lab	MSS	—	—	—
PP Lab	DSJ	—	—	—


 HOD


 Principal
Dr. Vilas Pharande
 Principal
 Anand Civil College of Engineering,
 Mahalewadi, Satara




Fig.2.2.1 r. Sample Feedback Analysis and Action Taken

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

(Mention the initiatives, implementation details and analysis of learning levels related to Quality of semester question papers, assignments and evaluation)

- Civil Engineering department follows the evaluation of scheme of DBATU University Lonere.
- Internal and external exams are 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 with evaluation process during their orientation program itself.
- Department forms a Program Evaluation Review Committee (PERC) for question paper's quality checking, evaluation and effective process implementation.
- Three sets of question paper for each course are prepared by the faculty members and submitted to the PERC Committee. The committee member selects one copy based on the questions' quality and relevance to COs.
- This selected set is further reviewed by the Head of the department (HOD). After approval from the HOD, final paper is printed and submitted to Exam Committee, one day prior to the scheduled class test to maintain the privacy issues.
- The test coordinators schedule the test time table, test invigilation allotment, room allotment and coordinate in smooth execution of the test in the scheduled time as per COE and display the same on the notice boards. The test time table, seating arrangement documents posted on what-sup group of students.
- Assessment questions for theory are aligned with bloom's taxonomy and the questions were decided as per the COs which are framed by the course coordinators according to the blooms level, verified by the test coordinator and approved by HOD.
- The duration of the test is 1 hrs. and the question papers are set to make the students to learn time management. Before first test 33.33 %, Mid semester test 66.66 % and test two 100% of syllabus is covered by course coordinator
- Three sets of question paper for each course are prepared by the faculty members and submitted to the PERC Committee. The committee member selects one copy based on the questions' quality and relevance to Co.
- This selected set is further reviewed by the Head of the department (HOD). After approval from the HOD, final paper is printed and submitted to Exam Committee, one day prior to the scheduled class test to maintain the privacy issues.
- The test coordinators schedule the test time table, test invigilation allotment, room allotment and coordinate in smooth execution of the test in the scheduled time as per COE and display the same on the notice boards. The test time table, seating arrangement documents posted on what-sup group of students.

- Assessment questions for theory are aligned with bloom's taxonomy and the questions were decided as per the COs which are framed by the course coordinators according to the blooms level, verified by the test coordinator and approved by HOD.
- The duration of the test is 1 hrs. And the question papers are set to make the students to learn time management. Before first test 33.33 %, Mid semester test 66.66 % and test two 100%

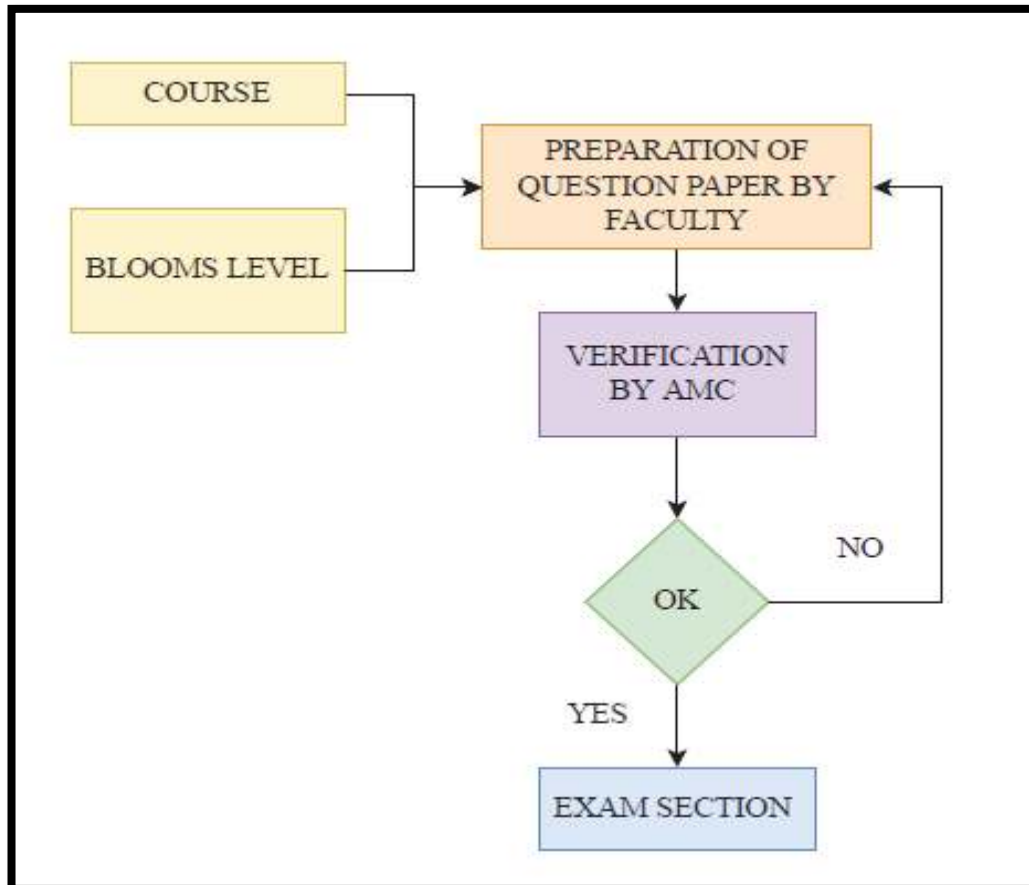


Fig B.2.2.2.a: Internal Question Paper Setting and Evaluation Process

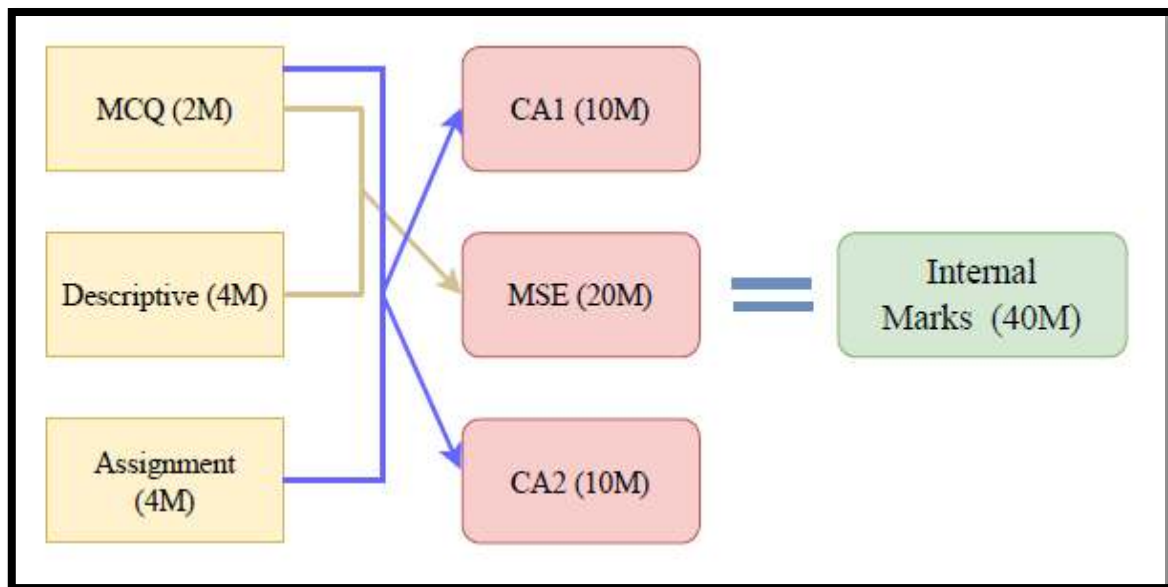



Fig B.2.2.2.b: Process for Internal semester Question Paper setting and evaluation

Evaluation:

- The faculty member after each internal assessment test evaluates the test books as per the scheme of evaluation.
- The faculties after every internal assessment test they explain the solution of the questions in the class.
- For any genuine reasons, if a student was unable to perform well in the given three internal assessment tests, improvement test is given to him/her.
- The average of the marks obtained from any best two test is chosen for the award of internal assessment marks.
- Assignments are used as a tool for practice and evaluation is based purely on Internal Assessment Test.

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



SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
 NAAC Accredited

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 Shri Chhatrapati Shivaji Maharaj Vastu Sangrahalaya, Kolhapur & Dr. Babasaheb Ambedkar Technological University (BATU), Lonere.
 Website:- www.agco.sets.edu.in

Address : Al. Panmalewadi, Post-Varys,
 Tal. & Dist. Satara-415 015 (Maharashtra)
 Phone : 02162-200100
 Tele Fax : 02162 - 261122
 e-mail : agcoenggusara@gmail.com

Institute Code : Engg. DTE EN-6545;
 Poly. Code : DTE DN-6545
 Poly. MSBTE-1617 (2nd Shift)

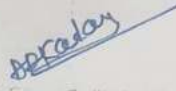
Date: - 20/05/2023

NOTICE


Even Sem 2022-23

Theory And Practical CA-2 Exam .(Objective& Descriptive)

- Theory CA-2 Exam. (Objective & Descriptive) is scheduled from 24th May 2023 to 30th May 2023.
- Theory CA-2 Exam. Marks -10 Marks(Objective Part-02 Marks, Descriptive Part-4Marks, Assignment-2)
- CA-2 Objective exam will be conducted through online mode via Moodle. Exam is MCQ based on CO 3 & CO4, Total Questions: 30 (CO3 :15 MCQ , CO4:15 MCQ) Time 10 Min Total Marks:-02
- CA-2 Exam. Descriptive will be conducted on offline mode Daily one paper exam is of 12 Marks based on CO-3 and CO-4 Time: 30 min.
- Respective Subject Teacher has to Submit Assignment 3 & 4,
- Respective Subject Teacher has to Submit 3 sets of Theory CA-2 Exam. Question Paper, CO3 & CO4 MCQ's to Exam department after reviewing the quality of paper as per the guideline of flow chart with respective departmental DAB Members before Paper
- CA-2 Practical Exam. will be conducted on offline mode Daily Practical batches as per academic time table Practical CA-exam is of 15 Marks based on 5 Experiment





Principal
Dr. Vilas Pharande



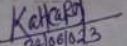
CONTROLLED BY EXAMINATION
 Arvind Gavali College of Engineering
 Patandurani, SATARA


Fig B.2.2.2.c: Sample Examination Notice

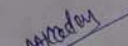
 Dr. Babasaheb Ambedkar Technological University, Lonere Arvind Gavali College of Engineering, Satara (Inst. Code: 6545) (Even Sem: 2022-23) Department: Civil Engineering Theory CA2 (Objective & Descriptive & Assignment) Exam TIME TABLE (26 June -1 July 2023)					
					
Day & Date	Class	Subject Code	Subject Name	Objective Exam Time (Moodle)	Descriptive & Assignment Exam Time
Monday, June 26, 2023	SY Btech	BTCVC401	Building Planning and Drawing	10:00 AM to 11:59 AM	4.00PM-5.00PM
Tuesday, June 27, 2023	SY Btech	BTCVC402	Environmental Engineering	10:00 AM to 11:59 AM	4.00PM-5.00PM
Wednesday, June 28, 2023	SY Btech	BTCVC403	Structural Mechanics - I	10:00 AM to 11:59 AM	4.00PM-5.00PM
Thursday, June 29, 2023	SY Btech	BTCVC404	Water Resources Engineering	10:00 AM to 11:59 AM	4.00PM-5.00PM
Friday, June 30, 2023	SY Btech	BTCVC405	Hydraulics - II	10:00 AM to 11:59 AM	4.00PM-5.00PM
Saturday, July 01, 2023	SY Btech	BTCVC406	Engineering Geology	10:00 AM to 11:59 AM	4.00PM-5.00PM

Note:

- Theory CA2 Exam will be Conducted in Offline mode only. CA2 (Objective) Will be conducted Online through MOODLE.
- As per guidelines from DBATU, All Students should attend the Mid Sem Exam as per the above schedule.
- If any student fails to appear test, then he/she will be considered as absent. Opportunity may be given.


 Exam Coordinator
 (Mr. R.A. Katkar)


 HOD


 Controller of Exam

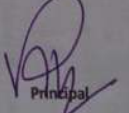



 Principal

Fig B.2.2.2.d: Sample 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 Civil Engineering

Sem: VI

Subject Name: Environmental Engineering

Subject Code:BTCVC402

Max Marks: 12

Date: - 27 /06/2023

Duration: - 30 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-1 Exam (Objective Part) completed of 2 marks		2 marks
Q.2 Solve Any one of the following.		6 Marks
(A) State the requirements which are considered while designing the distribution system.	CO3	
(B) Explain the following layout systems for distribution	CO3	
a) Dead end system		
b) Radial system		
Q. 3 Solve Any one of the following.		6 Marks
(A) Explain the process of collection of solid waste.	CO4	
(B) What are the sources of solid waste	CO4	

*** End ***

Fig B.2.2.2.e: Sample CA 2 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 in charge 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.
- Achievement of each course outcome on the map separately

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.

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)
EVEN Sem (2022-23)
Department: Civil
Class: TY
Subject: Foundation Engineering
Subject Code :BTCVC 602
Assignment No: 3A

Published Date: 27/05/2023
Submission Date: 27/05/2023

Q.1)	Shear strength parameters of soil are Cohesion(C) = 35 kN/m ² , Frictional angle(ϕ) = 22.5° and mobilized shear parameters C_m = 22.5 kN/m ² and ϕ_m = 16°, Calculate the factor of safety with respect to (a) Strength (b) Cohesion (c) Friction. The average inter granular pressure on the failure surface is 120 kN/m ² .	CO-3	[6 Marks]
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Assignment No: 4A

Q.1)	Design a Combined rectangular footing to carry column load of 2500 kN and 3500 kN at 5 m spacing on sandy soil with allowable soil pressure of 275 kN/m ² . Lighter column is at a distance of 300 mm clear from property line. Size of column is 400 mm X 400 mm.	CO-4	[6 Marks]
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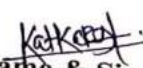

 Name & Sign of Faculty
 Mr. Ranjit A. Katkar

Fig B.2.2.2.f Assignment with CO relevance

Dr.Babasaheb Ambedkar Technological university,Lonere Samarth Educational Trust's Arvind Gavali College of Engineering, Satara (Inst Code: 6545) <u>Result Analysis Theory CA-2 Odd Sem 2022-23</u> (12th-17th Dec,2022)												
Class:- Third Year Civil			Sem:-V		Subject:- Geotechnical Engineering (BTCVC 502)				Dept: Civil			
			Objective		Descriptive				Assignment		Total Marks	Final Marks
			Total out of 1	Total out of 1	Q.1(A)	Q.1(B)	Q.2(A)	Q.2(B)	Assignment No.1	Assignment No.2		
			1	1	6	6	6	6	12	12		
			CO-3	CO-4	CO-3	CO-4	CO-3	CO-4	CO-3	CO-4		
1	CHIRAGH ABHAY SANJAY	2165451191001	1.00	1.00	4.00			6.00	10.0	10.0	32.00	8
2	THORAT AKASH ANANDRAO	2165451191002	0.00	0.00	3.00			6.00	10.0	10.0	29.00	8
3	AVTHUT ASHOK MANE	2165451191003	0.00	0.00							0.00	0
4	CHAITANYA SIDDHESHWAR WAGH	2165451191004	0.00	0.00							0.00	0
5	SHINDE HARSHADA KISHOR	2165451191005	1.00	1.00		6.00		6.00	11.0	12.0	37.00	10
6	SAWANT MAYURI SANTOSH	2165451191006	0.00	0.00	4.00			6.00	10.0	11.0	31.00	8
7	KEDARE POOJA RAMESH	2165451191007	0.00	0.00		2.00			11.0	11.0	24.00	6
8	PAWAR SACHIN HANAMANT	2165451191008	0.00	0.00	4.00			6.00	10.0	10.0	30.00	8
9	SAHIL DADASA SATPUTE	2165451191009	0.00	0.00	4.00			4.00	10.0	10.0	28.00	7
10	KUMBHAR SANJANA NARAYAN	2165451191010	1.00	1.00	4.00			6.00	11.0	11.0	34.00	9
11	SHRIKRUSHN DIPAK CHAVAN	2165451191011	1.00	1.00	4.00			6.00	11.0	11.0	34.00	9
12	SUYOG YASHWANT KADAM	2165451191012	1.00	0.00					10.0	11.0	22.00	6
13	CHAVAN SWAPNALI MANIK	2165451191013	1.00	1.00	4.00			6.00	11.0	10.0	33.00	9
14	PAWAR SWAPNALI KALIDAS	2165451191501	1.00	1.00	1.00				11.0	11.0	25.00	7
15	GURAV ANIRUDHA DILIP	2165451191502	1.00	0.00	4.00			6.00	12.0	11.0	34.00	9
16	FISAL SAVAN SADHU	2165451191503	1.00	1.00	6.00			6.00	12.0	11.0	37.00	10
17	CHANGAN MBIR AJAY	2165451191504	0.00	0.00							0.00	0
18	JAGTAP AKHILESH SURESH	2165451191505	1.00	1.00	3.00			6.00	10.0	11.0	32.00	8
19	DANGE SALMAN NASHIRKHAN	2165451191506	0.00	0.00							0.00	0
20	CHAVAN PRITHVIRAJ NITIN	2165451191507	0.00	0.00	2.00				9.0	9.0	20.00	5
21	PATIL AVADHUT BABAN	2165451191508	0.00	0.00	4.00			6.00	10.0	11.0	31.00	8
22	SHELKE SIDDHESHWAR JAYASING	2165451191509	1.00	1.00		5.00		6.00	11.0	11.0	35.00	9
23	VALEKAR MAYUR JANARDAN	2165451191510	0.00	0.00	4.00			4.00	11.0	11.0	30.00	8
24	KALBHOR BALRAM POPAT	2165451191511	1.00	1.00	3.00			6.00	11.0	12.0	34.00	9
25	GAIKWAD NAKUL MANOJ	2165451191512	0.00	0.00	4.00			4.00	10.0	11.0	29.00	8
26	VALEKAR DINESH SHRIMANT	2165451191513	1.00	1.00	4.00			6.00	11.0	11.0	34.00	9
27	KADAM ATUL RAMESH	2165451191514	1.00	1.00	5.00			6.00	12.0	11.0	36.00	9
28	GHORPADE SHUBHAM ANANDRAO	2165451191515	0.00	0.00	3.00			6.00	10.0	10.0	29.00	8
29	MORE PRATHAMESH DATTATRAY	2165451191516	0.00	0.00							0.00	0
30	KUNDALE AKSHAY SUDHIR	2165451191517	0.00	0.00							0.00	0
31	KADAM GANESH VISHNU	2165451191518	0.00	0.00	3.00			6.00	10.0	10.0	29.00	8
32.00	Mhambhe OM Chandrakant	2165451191519	0.00	0.00							0.00	0
33	PAWAR TEJAS MADHAV	2165451191520	0.00	0.00							0.00	0
34	PADWAL SAURABH RAJENDRA	2165451191521	0.00	0.00							0.00	0
35	HADPAD PRAVIN ASHOK	2165451191522	1.00	1.00	4.00			6.00	11.0	11.0	34.00	9
36	Nadaf Dilshad Saqun	2165451191523	0.00	0.00							0.00	0
37	AWAGHADE PRAVIN VILAS	2165451191524	0.00	0.00							0.00	0
38	KADAM PRIYANKA GANGARAM	2165451191525	1.00	1.00		5.00		6.00	11.0	11.0	35.00	9
39	POWAR TRIVENT RAJARAM	2165451191526	0.00	0.00	4.00			6.00	11.0	11.0	32.00	8

Fig B.2.2.2.g Sample Assignments Evaluation Record

2.2.3. Quality of student projects (25)

(Quality of the project is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type(application, product, research, review etc.) and standards. Processes related to project identification, allotment, continuous monitoring, evaluation including demonstration of working proto types and enhancing the relevance of projects. Mention Implementation details including details of POs and PSOs addressed through the projects with justification)

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

Student carry out mini project in fourth semester and major project in seventh and eighth semester. Department follows standard procedure to ensure quality of project. Student selects project domain in line with their interest. Students are encouraged to do real world project. Department and R& D department head guides, help student to select domain by sharing with them various project domain like (not limited to):

- a) Hydraulics
- b) Environmental Engineering
- c) Structural Analysis and Design
- d) Construction management
- e) Transportation
- f) Irrigation

Project groups are formed by student itself, if they are not able to form group then project coordinator help them to form group.

A. Project Identification & guide allocation methodology.

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

1. R& D committee displays a list of faculty members along with their areas of expertise on notice board.
2. A list of previous year's projects is displayed at 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 minimum 3 and maximum 5 and contact the concerned faculty member.
4. If any group failed to submit guide name then project coordinator will assign the guide to the group.
5. Students can choose/come out with a problem for the project. If they are not able to come out with the problem, then the supervisor will give a problem to the students for execution of the project work.
6. Committee finally allots the projects by considering various parameters like relevance to POs, originality, feasibility, technology and resource required.

7. The guide monitors the progress of the project work on a regular basis and keeps the track record. In case, the performance of the students group is not satisfactory, the matter is reported to PAC for required action.
8. The guide ensures the compliance of university format for submission of the project report

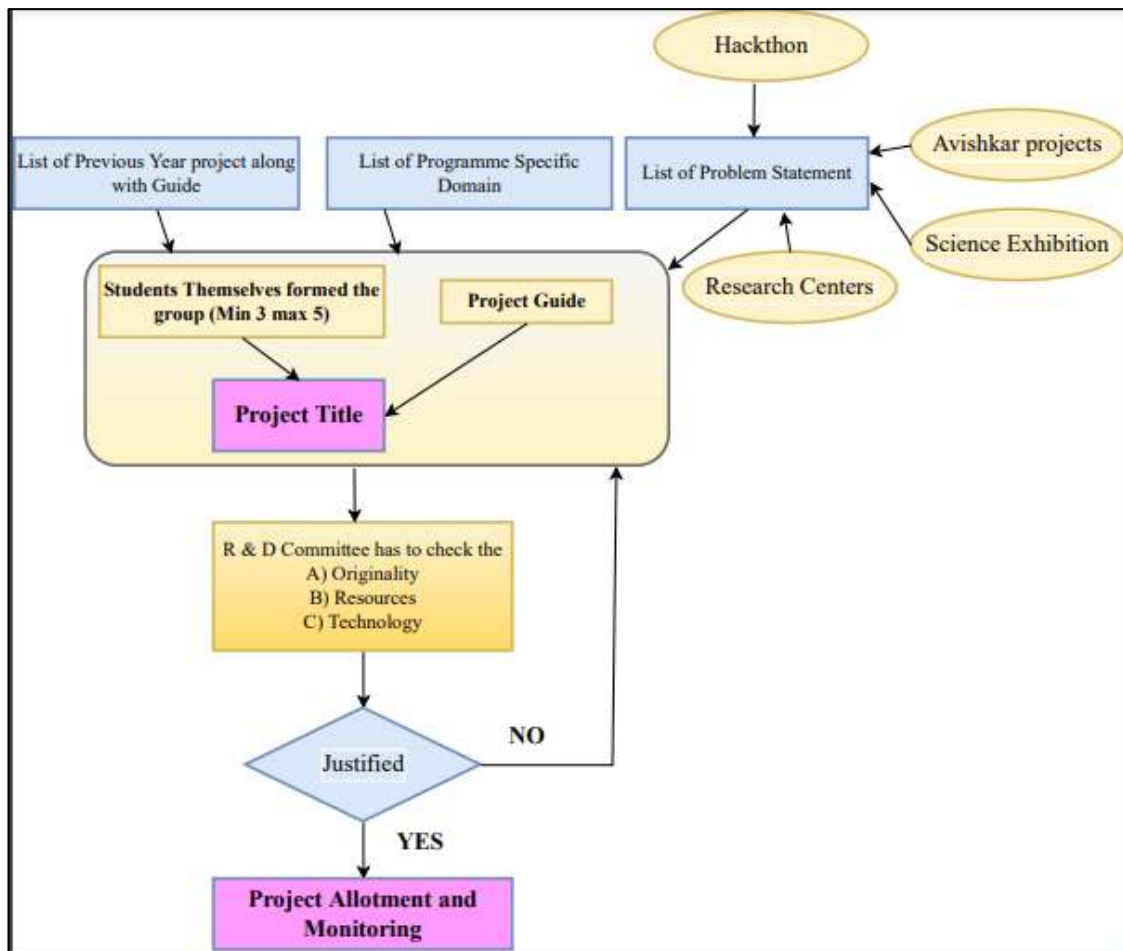


Fig B.2.2.3.a: Project Identification & allocation method

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Department of Civil Engineering Academic Year : 2022/2023. No. 248

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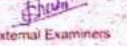
PROJECT PROGRESS SHEET

TITLE OF PROJECT : Experimental Analysis on Green Concrete.

Name of Student : <u>Ganeshk Aliauddin Shaikh</u>	Sponsored by <u>Aliauddin S. Shaikh</u> Address : <u>Kshetra Mahuli</u> <u>Satara</u> E-mail ID : <u>shaikha.3104@gmail.com</u> Contact No : <u>9860440715</u>	Name of Alumni Mentor <u>Tanveer Ator</u> E-mail ID : Contact No : <u>9673966007</u>	Name of Guide : <u>prof. suraj shinde</u> E-mail ID : <u>surajshinde.3300@gmail.com</u> Contact No : <u>8208695547</u>
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Week	Date	Topic Discussed	Task Assigned	Industrial Mentor Signature	Alumni Mentor Signature	Guide Signature	Project Co-ordinator Signature
1	31/9/2022	discussion about project.	searching different project topic.				
2	1/10/2022	list out the different topic.					
3	20/9/2022	selecting final topic.					
4	20/9/2022	discussing the task with guide.	Finalizing project topic conform.				
5	30/9/2022	searching the Research.	searching research paper.				
6		paper related topic.					
7	6/10/2022	searching review					
8		papers.					
9	15/10/2022	investigation of raw material.	Material Investigation.				

Week	Date	Topic Discussed	Task Assigned	Industry Mentor Signature	Alumni Mentor Signature	Guide Signature	Project Co-ordinator Signature
10	22/10/22	Finding RMA.	RMA ordered.				
11	27/10/22	List out the which tests are carried out.					
12							
13	27/10/22	Project presentation					
14		Phase - 1					
15	27/10/22	Correction in report					
16	27/10/22	Material testing					
17	27/10/22	Information research paper	Research paper publish.				
18		publish.					
19	27/10/22	Preparation for stage 2 of project					
20							
21	27/10/22	Project stage 2					
22		presentation					
23	27/10/22	Testing of cube.	Casting of cube.				
24	27/10/22	7th day testing cube					
25	27/10/22	14th day testing cubes.					
26	27/10/22	21st day testing cube.					
27	27/10/22	Result analysis.	Force analysis				
28	27/10/22	Preparation in relation					
29		Final Project completion	Preparation of PPT & Report of the project.				
30	27/10/22	Conference paper publish.					

Dr. Vilas Pharande

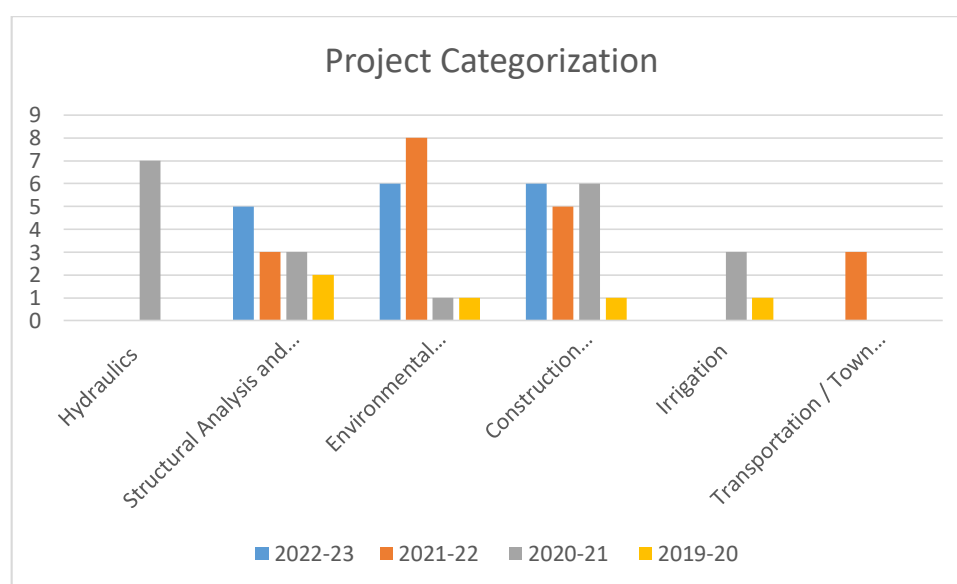
Fig B.2.2.3.b: Sample Project Progress Sheet

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

Hydraulics, Structural Analysis and Design, Environmental Engineering, Construction Management and Irrigation are major domain of project development in civil engineering department

Table 2.2.3.a Project Categories

Project Domain	No. of Project in each domain			
	2022-23	2021-22	2020-21	2019-20
Hydraulics	0	0	7	0
Structural Analysis and Design	5	3	3	2
Environmental Engineering	6	8	1	1
Construction Management	6	5	6	1
Irrigation	0	0	3	1
Transportation / Town Planning	0	3	0	0
Total	17	19	20	05



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 project guide and project assessment committee members and also the projects are mapped to PO's and PSO's.

Course Objectives:

1. To provide an opportunity for applying the knowledge gained at the time of study.
2. The students are expected to develop higher order skills, where in they analyze, evaluate and create.
3. To prepare students to solve/implement/upgrade the issues of the safety/ public health/ environmental/societal by application of computer science concepts or principles.

Course Outcomes:

1. Improve the professional competency and research aptitude in 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 team to solve problems with 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 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
CO1	3	3	2	3	2	3	3	2	2	3	3	2
CO2	1		3	3	3	2			3		2	
CO3	2	2	3					3	3		3	3
CO4	1	3	3		2				3	3	3	2
CO5	3	3	3	3	3	3	3	2	3	3	3	3
CO6	2	3	1		3				3	2		3
Strength of Correlation:												
High: 3				Medium: 2				Low: 1				

Procedure of CO Attainment

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

Academic Year: CAY (2022-23)**Table B.2.2.3c Mapping of Projects (PR1-PR19) with PO and PSO**

Group No	Project Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2
1	Seismic performance of multistory building with response spectrum method	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
2	Rain Water Harvesting	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
3	Design of Modular Multistoried Steel Frame Building	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y	Y
4	Analysis and Design of equitable water supply for rural water distribution network	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
5	Analytical Investigation on Mitigation of Short Column Effect In Partial In filled Frames	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
6	Design of Paving Tiles using industrial waste carbon	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
7	Design and Estimate of Sewage Treatment Plant	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
8	Experimental analysis on Green Concrete	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
9	Water quality analysis and modelling for lower koyana river	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y	Y

10	Marine pollution and its removal	Y			Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
11	Advanced Materials and Techniques used in construction	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
12	Design of OPOD house and structure	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
13	Retrofitting of a RC structure	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y
14	Use of glass and granite as an aggregate in concrete block for sustainable construction	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y
15	Waste Water Management	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
16	Building Drawing and 3d Modelling	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
17	Impact of lightning on building and remedial measures.			Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y

Academic Year: CAY m1 (2021-22)

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

Grp No	Project Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PSO2
1	Behavior of Bacterial concrete by varying types of bacteria	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
2	Compressed Stabilized Earth block	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
3	Cognitive Properties of crushed and PPC concrete	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y	Y
4	Manufacturing of bricks by using foundry waste sand and its comparison with burnt clay bricks	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
5	Utilization of tier CRUMB for water proofing	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
6	Effect of RERA on construction and GST on construction.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

7	Sewage Treatment Plant	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
8	Movable Divider for Traffic management	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
9	Performance Evaluation of conventional bricks	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y	Y
10	Eco Bricks	Y			Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
11	Urban Town planning	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
12	To study the effect of glass fiber and steel fiber in concrete	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
13	Sponsored Project Rainwater	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y
14	Sponsored Project Rainwater	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y
15	Energy Audit for Pachgani Nagar Parishad	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
16	Water Audit for Pachgani Nagar Parishad	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
17	Building Information Modelling			Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
18	Road Power Generation by Mechanical mechanism	Y	Y		Y		Y		Y	Y	Y	Y	Y	Y	Y
19	Castilated Beam	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y

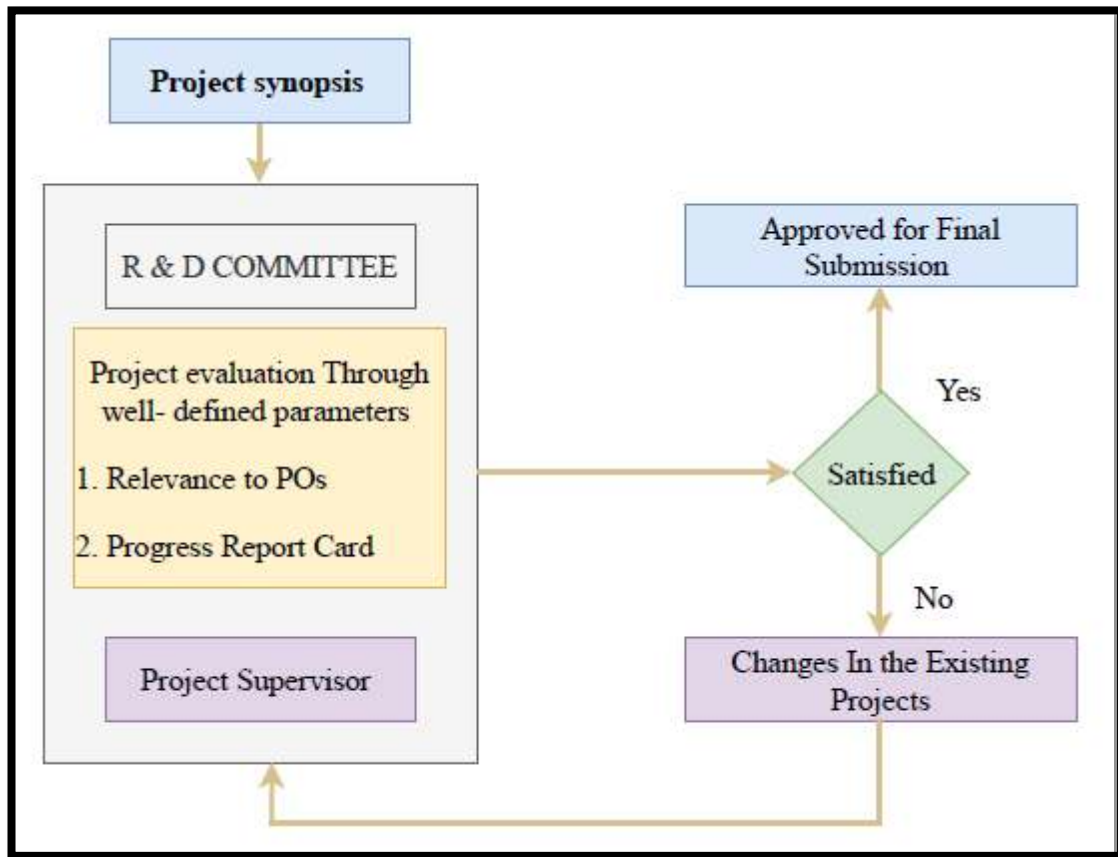
Academic Year: CAY m2 (2020-21)**Table B.2.2.3d Mapping of Projects (PR1-PR20) with PO and PSO**

Group No	Project Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2
1	A Case Study of Kolmba river analysis	Y	Y		Y	Y		Y		Y	Y	Y	Y	Y	Y
2	Structural Audit of existing Building	Y	Y	Y	Y					Y	Y	Y	Y	Y	Y
3	Planning and distribution of pipe distribution network	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y	Y
4	Experimental Study of effect of glass fiber in glass powder cement concrete	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
5	Retrofitting of ill detailed beam column connection	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
6	Utilization of plastic in manufacturing of paver block	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
7	Ferro Cement Construction	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
8	Concrete blocks using waste material	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
9	Condition Assessment of building	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
10	Experimental Investigation of modified bitumen with plastic	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y
11	Effect of Granite and marble waste to enhance the properties of silty soil	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
12	Analysis and Design of G+15 Building	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
13	Reuse and Recycle of construction and demolition of waste	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y

14	Study of watershed management	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
15	Palm island Dubai	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y
16	Light gauge steel structure.	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y
17	Rainwater Harvesting	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
18	Strengthening of beam and column	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y
19	Future scope in construction industry	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y
20	To study the effect of carbon lamination.	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y

Academic Year: CAY m3 (2019-20)**Table B.2.2.3e Mapping of Projects (PR1-PR5) with PO and PSO**

Group No	Project Name	PO 1	PO 1	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2
1	AGCE Amphitheatre	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2	Watershed Management in AGCE, Satara with Special Reference to Khodaiwadi, Karad	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y
3	AGCE Rainwater Harvesting System	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
4	A Study on Hollow core Foam Concrete Wall	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
5	Beam Column Connection Under Monotonic and cyclic loading	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y

A. Process for project work monitoring and evaluation**(05)****Fig B.2.2.3.c: 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 from the 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 f 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 indicators are evaluated on scale of 1-5.

Excellent: 5

Very Good: 4

Good: 3

Satisfactory: 2

Not Satisfactory: 1

Phase 2:**Table B.2.2.3 g 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 Demonstration	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 indicators are evaluated 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

Prototype Evaluation Sheet
Final Year B.Tech (All Branches)
Academic Year: 2022 - 2023

Name of the Project Guide: Prashant Barmane

Department: _____

Project Title: Seismic analysis of High Rise Building response spectrum method

Domain: _____

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	4	3	3
2	Literature Review	4	4	4	4	3
3	Design Solutions of Suggested project	3	4	3	3	4
4	Analysis of the project	5	3	2	3	3
5	Modern Tool Usage	4	4	4	3	3
6	Technical knowledge to assess societal issues	3	4	3	4	4
7	Impact of Engineering solutions on environmental contexts	4	4	4	4	4
8	Applied Ethical Principles in engineering practice	3	4	3	3	3
9	Planning of the Project Work and Team Structure	4	4	4	3	2
10	Effectiveness of Communication	3	4	4	3	2
11	Project Management and Finance	3	4	4	3	2
12	Preparation on situation of technological change	4	4	3	3	2
13	Synopsis	3	4	4	3	2
14	Industry Sponsored/Research/Peer Review Paper Based	3	4	3	3	2
15	Project Report	3	4	3	3	2
16	Project Implementation and Testing	4	3	4	4	2
17	Project Demonstration	4	4	3	4	2
18	Participation in Competition	4	4	3	3	2
19	Conclusion and Future scope	4	3	3	3	2
20	References	4	3	3	3	2
Total		74	74	70	77	67

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
Sameena mudan Smile	manoj kale	suchita katkar	kiran chikane Ks.Chikane	Jaytap Ganesh G.D. Ganesh
				Examiner Sign

Guide Sign

Fig B.2.2.3.d Sample Evaluation Record

Process to assess individual and team performance**(05)**

Project assessment 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 assessment evaluation can be done by using assessment 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 in front 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.

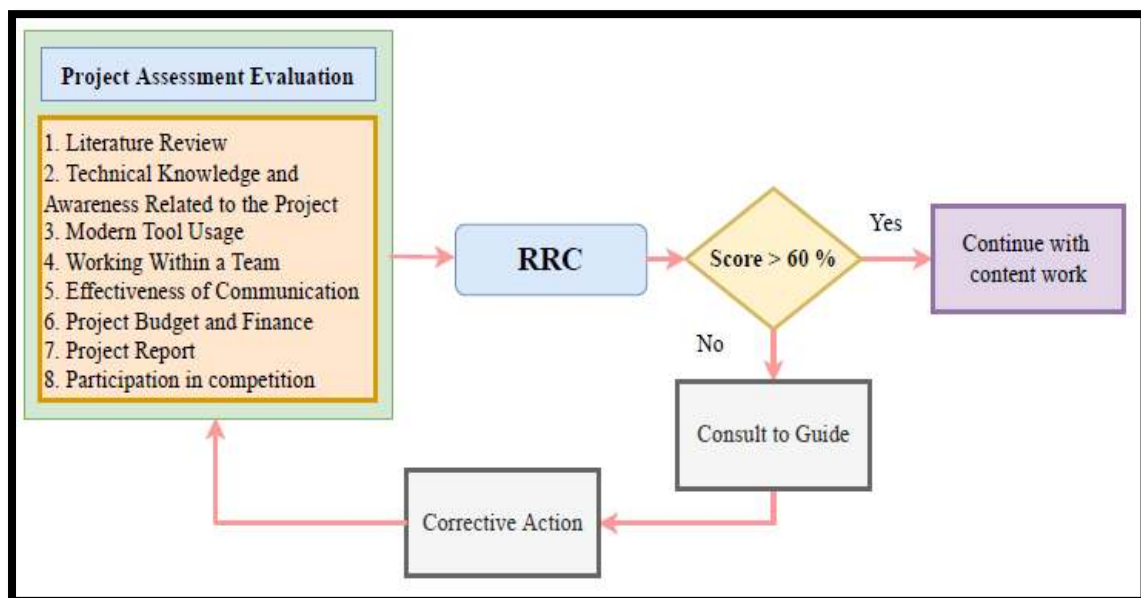


Figure B.2.2.3.e: Student Performance Evaluation Mechanism

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

A committee of R&D head, Head of the Department, and Supervisor assess 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 (2022-23):**Table B.2.2.3 j. Three Best Project**

Group No	Name of Student	Name of Guide	Title of Project
7	Momin Talha	Prof. Sapkal Rajendra	Design and Estimate of Sewage Treatment Plant
	Pthan Sajma		
	Mohite Ankita		
6	Jadhav Parth	Prof. Ranjit A Katkar	Design of Paving Tiles using industrial waste carbon
	Patil Jaydeep		
	More Saish		
	Jadhav Rajat		
13	Sakunde Neha	Dr. P.R. Bamane	Retrofitting of a RC structure
	Patankar Priyanka		
	Shirke Sani		

CAY m1 (2021-22):**Table B.2.2.3 j. Three Best Project**

Group No	Name of Student	Name of Guide	Title of Project
G14	Akshata Kharade	Prof Shinde S.S.	Sponsored Project Rain Water
	Rohit Waghmode		
	Ankita Doumani		
G15	Ashitosh Mechkar	Dr. Thombare V.R.	Energy Audit for Pachgani Nagar Parishad
	Snehal Jagtap		
	Aakansha Babar		
	Prathmesh Salunkhe		
G3	Mayur Desai	Asst. Prof Gujar Abhay	Constitutive Properties of crush sand PPC concrete
	Vaibhav Tupe		
	Abhishek wagh		
	Chaitanya Salunkhe		

CAY m2 (2020-21):**Table B.2.2.3 k. Three Best Project**

Group No	Name of Student	Name of Guide	Title of Project
G2	Vaishnavi Patil	Asst. Prof. Gujar A.V.	Structural Audit of existing building
	Pooja Sankpale		
	Aboli Parate		
	Supriya Salunkhe		

G5	Mayur Pawar	Asst. Prof. Gujar A.V.	Retrofitting of ill detailed beam column connection
	Omkar Mane		
	Jay Chavan		
	Bhushan Mahale		
	Vitthal Gurav		
G3	Trupti Jadhav	Dr. Thombare V.R.	Planning and Distribution of pipe distribution network
	Suchitra Patil		
	Nikita Khandzode		
	Swaranjli Katkar		

CAY m3 (2019-20):**Table B.2.2.3 1. Three Best Project**

Group No	Name of Student	Name of Guide	Title of Project
G1	Tanveer Atar	Mr. Ajay Kolekar	AGCE Amphitheatre
	Abhijeet Nikam		
	Anupsinh Shinde		
	Abhishek Shinde		
	Suraj Yadav		
G4	Harshada Shingate	Dr. Thombare V.R.	A Study of Hollow core foam concrete wall
	Aishwarya Shinde		
	Sanjeevani Patil		
	Varsha Jadhav		
	Sagar Chavan		

G5	Aniruddha Desai	Mr. Rajendra Sapkal	Beam column connection under monotonic and cyclic loading
	Rupesh Gurav		
	Ruturaj Jathar		
	Pratik Mohite		
	Sanghamitra Nagkirti		



Figure B.2.2.3.f Intra-College Project Competition

A. Evidences of papers published/Awards received by projects etc. (02)**CAY (2022-23) & CAY m1 (2021-2022)**

Sr. No.	Academic Year	Name of the Competition	Number of students participated
1	2022-23	National Level Project Competition (by Doulatrao Aher College of Engineering Karad)21/03/2022	02
2	2021-22	AVISHKAR 2021-2022 Zonal Level Competition by DBATU	02





Figure B.2.2.3. i Sample Project Participation Certificate

2.2.4. Initiatives related to industry interaction (15)

(Give details of the industry involvement in the program such as industry-attached laboratories, partial delivery of appropriate courses by industry experts etc. Mention the initiatives, implementation details and impact analysis)

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

A. Industry supported laboratories (05)**Table B. 2.2.4 a. Industry Supported Lab Details**

Sr. No	Industry Attached Laboratories	Name of Company/ Organization	Objective	Relevance to PO/PSO
1	Plumbing Laboratory	Abhay Gujar Associates Satara	1. Awareness about the different plumbing material used on site	PO12,PSO2

A. Industry involvement in program design and partial delivery of any regular courses for students (05)**a. Industrial visits:**

Industrial Visit for the engineering students is an essential activity as per their curriculum in order to get a proper insight into how the real working environment of a company is and the functionality at different levels. With an aim 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	2019-2020	Chaitanya Residency, Satara	17/04/2023	30
2	2022-23	2019-2020	Model developers Satara.	17/04/2023	30
3	2021-22	2018-19	Sewage treatment plant at Akurdi	24/05/2022	40
4	2020-21	2019-20	Aditi buildcon construction Satara	17/03/2021	30
5	2019-20	2018-19	Visit to CWPRS and Pune metro	06/03/2020	39

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



Fig 2.2.4.a Industrial Visit

STUDENT's FEEDBACK FORM OF INDUSTRIAL VISIT/ TRAINING/ INTERNSHIP

1. Impact/ learning experience of the student from the visit/ training/ Internship *

☐ Excellent
☐ Very Good
☐ Good
☐ Moderate

2. How do you rate the working as a team member *

☐ Excellent
☐ Very good
☐ Good
☐ Moderate

10. Live Projects Handling *

☐ Excellent
☐ Very good
☐ Good
☐ Moderate

11. Suggestions if any

Your answer

Submit [Clear form](#)

Fig 2.4 b Format of student feedback on industrial visit

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



Figure 2.2.4 c. Sample Industrial Talk Session

C. Student Development Programs- in collaboration with the industry for skill/curriculum development



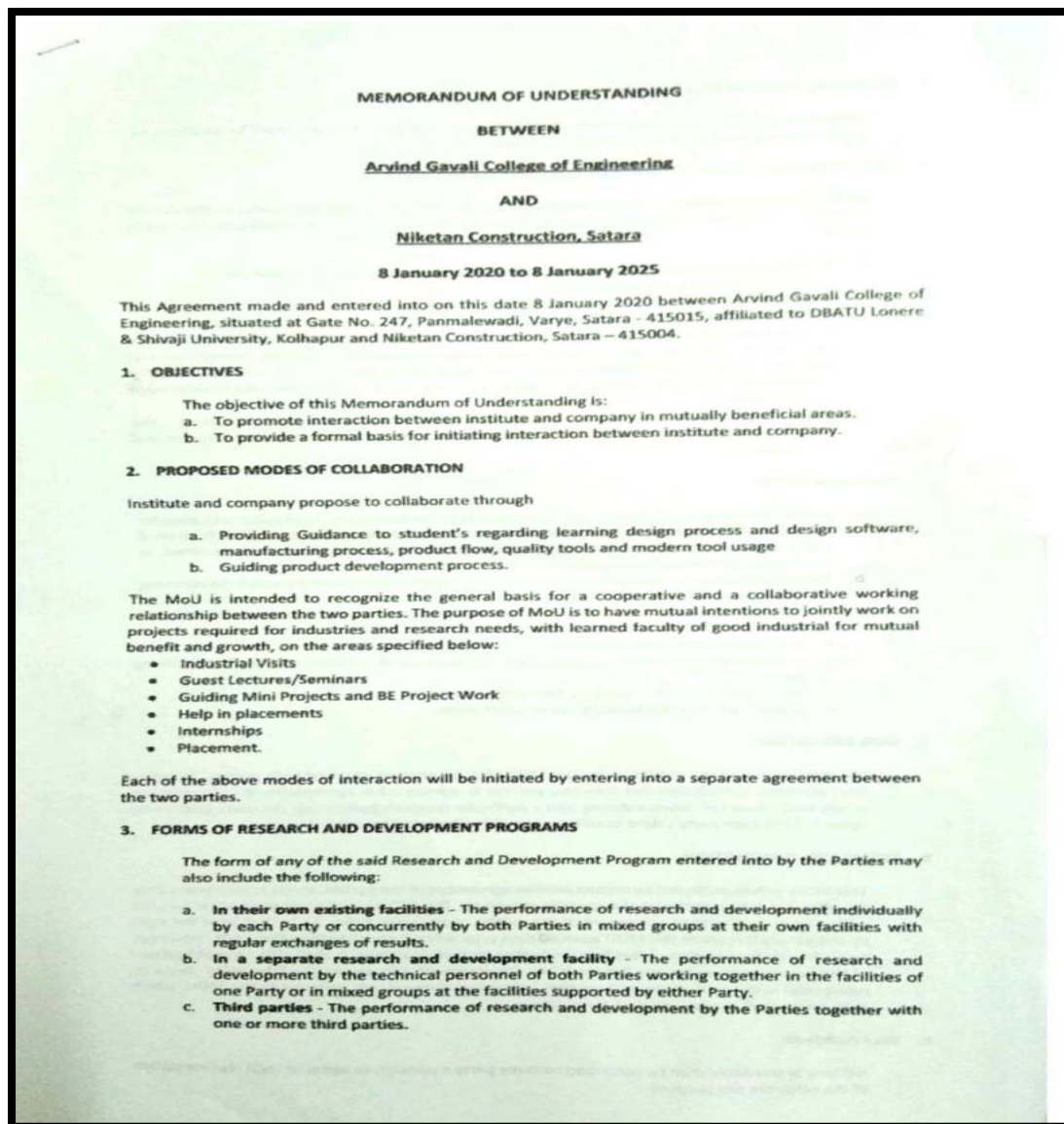
Figure 2.2.4 c. Sample Student Development Session

D. Industry experts were invited as judges for the project Exhibition.**Figure 2.2.4 d .Industry Expert Visit for Project 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	Aditi Buildcon, Satara	Mr. Ghanshyam D Matkar	14 Jan,2020 – 13 Jan,2025
2	Niketan Construction, Satara	Mr. Amai Agate	8 Jan, 2020 – 8 Jan, 2025
3	SI Consultant Karad	Mr. Shreedhar K. Inamdar	25 Jan, 2020 – 24 Jan, 2025
4	Model developers, Satara.	Mr. Makrand Dhavale	16 April,2022 – 15 April,2027



10. ASSIGNMENT

It is understood by the Parties herein this MOU is based on the professional competence and expertise of each party and hence neither party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party.

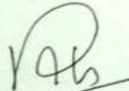


11. SIGNED IN DUPLICATE

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

On behalf of
Niketan Construction,
Satara - 415004

By :   By :  For Niketan Construction

Name : Dr. Vilas Phadnis
Title : Principal
Name : Mr. Amai Agate
Title : Partner

Date : 8/01/2020
Date : 8/08/2020

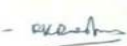
Witness:
1. Sambharaike (SOMESHA RAJE SA)
2. B. (Sapleed R.N.)
1. Deshmukh AS - 
2. Nihal
(Mr. V. S. Niham)

Figure 2.2.4 e. Sample MOU

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	Lecture on new developments and technologies adopted in bridge and railway engineering Mr. A.P. Bhalerao Project Manager SKBLLP	Students gain knowledge about new developments in transportation engineering	Enrichment of knowledge of use of new technologies in bridge and railway engineering
2	Invited Talks from Industry Experts	Lecture on recent development in infrastructure engineering Me Amte R.A. JW Infra builder	Awareness about recent development in infrastructure engineering	Enrichment of knowledge about recent trends in infra
3	Industrial Visits	Sewage treatment plant at akurdi	Advancement in wastewater treatment	Awareness about advancement in wastewater treatment
4	Industrial Visits	At water treatment plant	Advancement in water treatment process	Awareness about advancement in water treatment

5	Industrial Visit	At Aditi buildcon construction satara Mr. Matkar G.D.	Actual working at civil engineering industries	Enrichment of knowledge as per current industry needs
6	Industrial Visit	At Niketan construction Mr. Amey Builder	Awareness about actual working at construction site	Enrichment of knowledge as per current industry needs
7	Industrial Visit	Model developers, Satara.	Student seen on site component of building and its function, also seen actual working on site.	Knowledge expansion in accordance with current industrial needs.



Fig 2.2.4 g Sample Industry Expert 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 Industry
3. To provide knowledge of design, manufacturing, quality and testing of products

B. Industrial/Internship/Summer Training Course Outcomes:

- a) Student will understand industrial environment and practices
- b) Student will work on specific project and complete it in stipulated time period
- c) Student will able to understand the importance of quality of product and human safety
- d) Student will able to relate theory and practical while dealing with 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 below table.

Sr. No.	Company Name
1	AB engineering, Bidri
2	Sarwati Construction, Ambegaon, Narhe
3	Kavya Construction
4	Anitra Builders & Developers, Wai
5	Swarajya Construction, Deur satara
6	Mahalaxmi Construction, Tapola Mahabaleshwar
7	Sapkal Construction, Wai
8	Sai Construction Architects and Engineers, Gargoti Kolhapur
9	Kamthe pmv pvt.ltd, Kharghar, Navi Mumbai

10	Akshay Constructions, satara
11	SA Enterprises,Wai
12	V.V(B.S) Multi.services LLB,Kolhapur
13	Chavan Constructions,Tarle Patan Satara
14	Rajveer Builders,Satara
15	Chavan Constructions,Tarle Patan Satara
16	Deep Constructions,Satara
17	Deep arch Constructions, Umbraj Karad
18	Salunkhe Constructions Satara
19	Aadhi Structural and Engineers pvt.ltd
20	D.M. and Associates Consultancy Services , Atapadi
21	Dhumal Constructions,Satara
22	Ananda Construction Satara
23	Shriram Associates, Satara
24	Verity Contracts Pvt Ltd Pune
25	Akshay Construction, Nagthane
26	Amardeep Khot Engg & Consultants, Gargoti
27	Pravin Pawar & Associate, Satara
28	Kadam Construction, Satara
29	Samarth Infra Pune
30	Sarnobat Construction, Kolhapur
31	Tanay Infrastructure Ltd.
32	Dr. Kiran Pawar Consultancy Ichalkaranji
33	MST Associates & Construction
34	Vastukala Associates, Dahiwadi
35	Shanksharda Constructions, Karvir


36	Manisha Pardeshi & Associates Satara
37	Econ Reality Pvt Ltd Satara
38	khalifa Constructions, Deur
39	Mangalraj Construction Borkhal
40	Innovative Construction Satara
41	Shriram Associates, Satara
42	Shraddha Construction Patan

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 industry internship.
6. All the students are required to submit their training reports along with a certificate from the concerned industry.



SAMARTH EDUCATIONAL TRUST

www.sets.edu.in




Founder Chairman
Hon. Mr. Arvind Gavali (Sawkar)

ARVIND GAVALI COLLEGE OF ENGINEERING

NAAC Accredited

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



Panmalewadi, Varye, Tal. & Dist. - Satara - 415015, Ph.No.: 02162 - 261122

■ Website : www.agce.sets.edu.in ■ E-mail : agcenggsatara@gmail.com

INTERNSHIP / PROJECT RECORD BOOK

STUDENT	INDUSTRY
Student Name: <u>Aniket Anil</u> <u>Babot.</u>	Industry Name : <u>MAHA Metro</u> <u>Pune. Limited.</u>
Department : <u>Civil Engineering</u>	HR Manager Name : _____
Roll No.: <u>1965451131033 (4007)</u>	Contact No.: <u>020-25422881</u>

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

SAWKAR INSTITUTES
SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
 Approved by AICTE, New Delhi. Recognised by Govt. Of Maharashtra, DTE Mumbai & Affiliated to
 Dr Babasaheb Ambedkar Technological University (BATU), Lonere.
 Website - www.agce.sate.edu.in

Address : At Panmalewad, Post - Vayre,
 Tal & Dist - Satara - 415 015 (Maharashtra)
 Phone : 02162 - 261122, 200100
 e-mail : agcenggsatara@gmail.com
 Institute Code : Engg. DTE EN-6545
 Poly Code : DTE CH-6545
 Poly MSBTE-1517

Ref No.: AGCE /106 /civil /2022 /Dec /381
 Date : 24/12/2022

To.....
 Maharashtra Metro Rail
 Corporation Limited, Pune

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 : Babar Aniket Anil Class Civil - Final Year
 Contact No.: 9579896065 Email ID: aniketa103b@gmail.com
 Period from:- 06/02/2023 to 06/08/2023

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

For any additional please feel free to communicate with -
 Prof..... Dr. P. R. Bamane Mob.: 9518762449

Thanking you

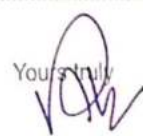
Yours truly

Dr. Vilas Pharande
 Principal
 A.G.C.E., Satara
 Arvind Gavali College of Engineering
 Panmalewad, SATARA

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

Attendance Sheet				
Sr. No.	Date	Task Completed	Student's Signature	Officer's Signature
1.	1/4/23	Safety Induction.	<i>ABabbar</i>	<i>MSTonape</i>
2.	1/4/23	Design Study	<i>ABabbar</i>	
3.	1/4/23	DPA Reading & study.	<i>ABabbar</i>	
4.	1/4/23	Site Plan	<i>ABabbar</i>	
5.	1/4/23	Drawing Study.	<i>ABabbar</i>	
6.	1/4/23	Visiting at office.	<i>ABabbar</i>	

Sr. No.	Date	Task Completed	Student's Signature	Officer's Signature
1.	2/4/23	Sunday. off.	<i>ABabbar</i>	<i>MSTonape</i>
2.				
3.				
4.				
5.				
6.				

Sr. No.	Date	Task Completed	Student's Signature	Officer's Signature
1.	3/4/23	Two days leave.	<i>ABabbar</i>	<i>MSTonape</i>
2.				
3.				
4.				
5.				
6.				

Suggestions for Candidate by Company Internship Officer :

.....

Name of Faculty Mentor : *P.P. Sopkar* Name of Company Mentor : *Mihind Tonape*

Signature of Faculty Mentor : *ABabbar* Signature of Company Mentor : *MSTonape*

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

Post Training Assessment:**Internal Assessment**

Understanding of Topics of training (10M)	Organization Skill(10M)	Topic Presentation Skill(10M)	Question/Answer (10M)	Training Report(10M)
---	-------------------------	-------------------------------	-----------------------	----------------------

Industry Assessment:

879

To whom it may Concern

This is to certify that Mr./Ms. Aniket Anil Babar from
EXIST/ITB. Tech. of Civil Engineering Department at Arvind Gavali College of Engineering,
 Satara has been working with Maharashtra Metro Rail Corporation Limited
 as trainee/ stipendiary/ intern during 01/04/2023 to 30/04/2023

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: MILIND S. TONAPE
 Designation: BY CPM-R2 SM
 Sign: [Signature]

all the best




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

महाराष्ट्र मेट्रो रेल कॉर्पोरेशन लिमिटेड
MAHARASHTRA METRO RAIL CORPORATION LIMITED
 (भारत सरकार आणि महाराष्ट्र शासनाचा संयुक्त उपक्रम)
 Joint Venture of Govt. of India & Govt. of Maharashtra
 PUNE METRO RAIL PROJECT

NO. MAHA-METRO/Pune/HR/Internship/2023/172 Date: 29.03.2023

To,
 Shri. Gautam Birhade,
 ED (Civil),
 MAHA Metro Corporation Ltd., Pune

Kind Attn. Shri. Sumit Srivastav, MANAGER (CIVIL)
Subject: Internship in MAHA Metro Rail Corporation Limited

Dear Sir,

With reference to the above cited subject, it is to inform you that the management has agreed to permit the following students to undergo the practical training in MAHA Metro Rail Corporation Limited. The details of students are given below:

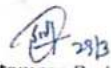
Sr. No	Name of Student	Name of Institute	Course Specialization	Period of Internship	Date of Internship	Place of Training
1	Kharat Vishal Balasaheb	D.Y.Patil	B.E (Civil)	Four weeks	01.04.2023 to 30.04.2023	Reach 2
2	Sakshi Sandip Naral					
3	Pallavi A Pandhawale					
4	Sejal Waje					
5	Babar Aniket Anil	Arvind Gavali College of Engineering				

The controlling officer is requested to provide training to the student as per the above-mentioned schedule and after completion of an internship in MAHA Metro Rail Corporation Limited, the student must submit the performance report to the Controlling Officer under whom he/she is doing practical training. Kindly also note that no lodging or stipend will be paid to intern. They shall be given instructions regarding safety guidelines.

Further, the Controlling Officer is advised to send the approved performance report and attendance of the above candidates to the HR Department for issuing of completion certificate.

This is for your information and necessary action, please.

Address – Pune Metro Office, Near Lagu Bandhu shop, Nalstop, Pune.
Contact No. – Shri. Ajay Udupure (Dy. CPM-Civil) 9422500141


 (Uttamrao Bodake)
 Sr. DGM (HR)
 MAHA Metro, Pune

CC:

1. The above mentioned students for reporting to the concerned Controlling Officer
2. Internship file

Figure B.2.2.5 e Sample Industrial/Internship/Summer training completion certificate

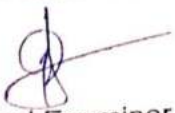
Conclusion

During my internship program at MAHA Metro Reach-2 from Vanaaz to Ramwadi Station around 14.6 km. in my internship I got a lot of theoretical and practical knowledge. I got to know the different procedures required for a civil project from paperwork to finishing.

Mapping of Course Outcomes to Program Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO 1	2	2	2	2	-	3	3	-	2	2	-	3
CO 2	-	-	1	2	-	-	-	-	-	-	-	-
CO 3	-	-	2	2	-	-	-	-	-	-	2	-
CO 4	-	2	2	2	-	-	-	3	-	-	-	3

Low : 1
Medium : 2
High : 3


 Internal Examiner



 External Examiner

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

Student Training Information CAY (2022-2023)

Sr No	Name of the Candidate (B Tech 2022-23)	Name of the Company
1	Ketan Parmar	Sai Construction, Satara
2	Kamble Vikrant Tanaji	Global Surveyer & Developer, Satara
3	Jagtap Pravin Mohan	Global Surveyer & Developer, Satara
4	Jadhav Parth Chandrakant	Jad Industry
5	Shinde Snehal Anand	K.P. Constr. And Design, Satara
6	Sakunde Neha Jitendra	Shlok Construction, Satara
7	Patankar Priyanka Dilip	Shubham Construction, Satara
8	Jagdale Sushant Bharat	Bartakke Associate Satara
9	Khare Omkar Dilip	Bartakke Associate Satara
10	Chikane Shubham Suresh	Shubham Construction, Satara
11	Pathan Shajma Aslam	Shubham Construction, Satara
12	Choudhari Omkar Sarjerao	R.B. Raut Associate, Satara
13	Raut Rohan Bapurao	R.B. Raut Associate, Satara
14	Samina Sayyad Mulani	Shubham Construction, Satara
15	Jagtap Ganesh Devidas	Shubham Construction, Satara
16	Shaikh Gouspak Allauddin	Shaikh Constr. Satara
17	Babar Aniket Anil	Mahametro Pune
18	More Saish Sandeep	Sai Construction, Satara
19	Salunkhe Siddheshwar Vilas	L & T Infra Mumbai
20	Lingale Jeevan Shahaji	Unique Construction Tarle

21	Pujari Vishal Vitthal	Raj Constr. Pune
22	Patil Vaibhav Vijay	Mr. Bhaskr Khambe Asso., Satara
23	Shelar Sagar Mahadev	R.B. Raut Associate, Satara
24	Salunkhe Aniket Bhaskar	Kshitij Construction, Satara
25	Aditya Sawant	P.B. Sawant Stone Crusher
26	Ghorpade Prajjwal Ramchandra	Manoj Construction, Satara
27	Jadhav Parth Chandrakant	Jad Industry Satara
28	Patil Jaydip Jaywant	Mahesh Patil Infra Satara
29	Shirke Sani Rajesh	Shubham Constrion, Satara
30	Roman Aniket Ramesh	Matoshri Construction, Satara
31	Patil Prashant Dhanaji	Shirke Associate Sangali
32	Mohite Ankita Ashok	Shubham Constrion, Satara
33	Momin Talha Shahanwaj	Kolte Patil Constr. Pune
34	Dhakal Nirmala Khadakbahadur	Dhyirsheel Kolekar Constr. Satara
35	Katkar Suchita Bhausahab	Shubham Constrion, Satara
36	Kale Manoj Kisan	Shubham Constrion, Satara
37	Gaikwad Sushant Parashram	Bartakke Asso. Satara
38	Jadhav Rajat Shivaji	Raj Construction Satara
39	Lokhande Shubham Bhimrao	Raj Construction Satara
40	Patil Aadesh Dilip	Raj Construction Satara
41	Chikane Kiran Sitaram	Shubham Constrion, Satara
42	Sneha Shibe	L & T Constr. Mumbai

Student Training Information CAY m1 (2021-2022)

Sr No	Name of the Candidate (B Tech 2021-22)	Name of the Company
1	Nalawade Siddhant Rajendra	Skayline Construction, Satara
2	Yedage Pratiksha Govind	Rajweer Builders, Satara
3	Desai Ajinkya Vijay	A.S.DESAI INFRA. PVT LTD. SATARA
4	Khavale Swapnil Digambar	Salunkhe Construction, karad
5	Malavi Sampann Sarjerao	Matoshri Construction, Karad
6	Shelar Kanchan Jayavant	S.P. Infra karad
7	Lad Akshay Kisan	A. R. Construction, Satara
8	Gavane Prashant Sopan	Skayline Construction, Satara
9	Kale Pruthviraj Kisan	Skayline Construction, Satara
10	Salunkhe Prathmesh S	Das Associate, Wai
11	Babar Aakanksha Vinayak	Aerial Mappers, Pune
12	Bhojane Gavrav Dhananjay	Nirmitee Properties, wai
13	Pawar Vishwjeet Vinod	Skayline Construction, Satara
14	Hujjaifa Farrukh Momin	Salunkhe Construction, karad
15	Khot Shreeranjana Ravindrakumar	Integrum Property Services
16	Thorat Prajwal Prakash	Matoshri Construction, Karad
17	Shivthare Nikita R.	Space Designer, Satara
18	Patil Ramchandra Shivaji	A. R. Construction, Satara
19	Patole Ashutosh Somnath	Shankar Kumbhar Interior, satara

20	Deshmane Diksha Somnath	Irfan Mulla Construction, Chafal
21	Musale Harshada Ravindra	Das Associate, Wai
22	Suryawanshi Vinayak Netaji	Skyline Construction, Satara
23	Kadam Niranjan A.	A.S.DESAI INFRA. PVT LTD. SATARA
24	Bhandare Akshay Arun	A. R. Construction, Satara
25	Lad Nikhil B	Vijay Chavan, Kamthi, satara
26	Kadam Suraj Prakash	A. R. Construction, Satara
27	Khalatkar Shubham	A. R. Construction, Satara
28	Sonawale Rushikesh Rajaram	Skyline Construction, Satara
29	Jadhav Atharv Deepak	A.S.DESAI INFRA. PVT LTD. SATARA
30	Pawar Dhiraj Jagannath	Pawar Developers, Koregao, satara
31	Kamble Pratik Sunil	Shiv Construction, Gargoti
32	Sapkal Namrata Sanjay	Aerial Mappers, Pune
33	Mechkar Ashitosh A	Das Associate, Wai
34	Khatal Rajshree Madhukar	Shahikant Dhumal, Surveyer, satara
35	Gaikwad Mahesh Lakshman	Skyline Construction, Satara
36	Patil Amruta S.	Mulla Construction, Chafal
37	Raut Samrat Ashok	Matoshri Construction, Karad
38	Jagtap Snehal Suresh	Das Associate, Wai
39	Ghorpade Mayur Suresh	Vijay Chavan, Kamthi, satara
40	Desai Mayur Krishnat	Vijay Chavan, Kamthi, satara

41	Tupe Vaibhav	Matoshri Construction, Karad
42	Wagh Abhishek Babasaheb	Vijay Chavan, Kamthi, satara
43	Mane Ajit Jaysing	Skayline Construction, Satara
44	Randive Neeraj D	Skayline Construction, Satara
45	Salunkhe Chaitanya Santosh	Vijay Chavan, Kamthi, satara
46	Chavan Mahesh	Matoshri Construction, Karad
47	Prasad Kadam	Randhive Construction, Koregao
48	Abhishek Jadhav	Randhive Construction, Koregao
49	Akshata Kharade	Deshmukh Valuer, Vaduj
50	Nikita Nikam	Aerial Mappers, Pune
51	Sham Madne	Matoshri Construction, Karad
52	Rohit WaghMode	Matoshri Construction, Karad
53	Ankita Doudmani	Rajveer Builder, Satara

Student Training Information CAY m2 (2020-2021)

Sr No	Name of the Candidate (B Tech 2020-21)	Name of the Company
1	Patil Suchitra vilas	Dhumal Constructions,Satara
2	Jadhav Nitin Ashok	Ananda Construction Satara
3	Madane Shantaram Jaywant	Ananda Construction Satara
4	Phanase Akshay Krishnat	Ananda Construction Satara
5	Amate Mayur Balkrushna	Shriram Associates, Satara
6	Sankpale Pooja Parshuram	Verity Contracts Pvt Ltd Pune

7	Salunkhe Supriya Suresh	Akshay Construction, Nagthane
8	Patil Vaishnavi Vitthal	Amardeep Khot Engg & Consultants, Gargoti
9	Parte Aboli Vikas	Pravin Pawar & Associate, Satara
10	Khandzode Madhukar Nikita	Kadam Construction, Satara
11	Sawant Sachin Suhas	Samarth Infra Pune
12	Patil Abhijit Bhikaji	Sarnobat Construction, Kolhapur
13	Kodag Vikas Pandurang	Tanay Infrastructure Ltd.
14	Phalke Shubham Vijay	Chavan Construction, Tarale
15	Bhosale Aniket dadu	Chavan Construction, Tarale
16	Jadhav Saurabh Suresh	Chavan Construction, Tarale
17	Pujari Sachin Vitthal	Chavan Construction, Tarale
18	Chavan pallavi dattatray	Dr. Kiran Pawar Consultancy Ichalkaranji
19	Sutar Omkar Sanjay	Deep Arch Construction, Umbraj
20	Sutar Sujit Hariram	MST Associates & Construction
21	Chavan Vikram Bhagwan	Deep Arch Construction, Umbraj
22	Shinde Prajwal Pradipkumar	Vastukala Associates, Dahiwadi
23	Daphale Sayali Dattatray	Shanksharda Constructions, Karvir
24	kumbhar Rohit Mohan	Manisha Pardeshi & Associates Satara
25	Gurav Vaishnavi Laxman	Manisha Pardeshi & Associates Satara
26	Mulik Aditya Shrikant	Antara Builders and developers, Wai
27	Shinde Sonali Suresh	Econ Reality Pvt Ltd Satara

28	Jadhav Trupti vijay	Salunkhe Construction Satara
29	Patil komal Ankush	Dhumal Constructions,Satara
30	Katkar Swaranjali Shankar	Chand & Associates, Satara
31	Bhaldar Soaeb Distagir	khalifa Constructions, Deur
32	Gaikwad Parag pandurang	khalifa Constructions, Deur
33	Jadhav Parag Jaywant	khalifa Constructions, Deur
34	Pawar Rushikesh Chandrakant	Mahalakshmi Construction
35	Pharande Prasad Subhash	Mangalraj Construction Borkhal
36	Jamdade Rohit Dhanaji	Mangalraj Construction Borkhal
37	Sathe Yashwant Pandharinath	Innovative Construction Satara
38	Jangam Sanket Abhijit	Innovative Construction Satara
39	kalyanshetti Snehal Suresh	Rajveer Builders, Satara
40	Jadhav kalyani Sunil	Samrat Construction Sangli
41	Jadhav Rohit Sanjay	Manan Construction Sangli
42	Gurav Pravin Suresh	Shriram Associates, Satara
43	Kalbhor Aniket Subhash	AP Construction Patan
44	Mone Abhishek Mukundd	Shriram Associates, Satara
45	Shinde Akshay Amrutrao	Shriram Associates, Satara
46	Lokare Pradnesh Baliram	Shraddha Construction Patan

Student Training Information BE CAY m3 (2019-2020)

Sr No	Name of the Candidate (BE 2019-20)	Name of the Company
1	Shinde Sonali Suresh	AB engineering, Bidri
2	Vikram Lakshman Gaikwad	Sarswati Construction, Ambegaon Narhe
3	Mahesh Shankar Chavan	Kavya Construction
4	Rohit Mohan Kumbhar	Anitra Builders & Developers, Wai
5	Nitin Ashok Jadhav	Swarajya Construction, Deur satara
6	Arjun Kadam	Mahalaxmi Construction, Tapola Mahabaleshwar
7	Ranit Dhanaji Jamdade	Sapkal Construction, Wai
8	Vaishnavi Vitthal patil	Sai Construction Architects and Engineers, Gargoti Kolhapur
9	Vaibhav Anil Sapkal	Sapkal Construction, Wai
10	Prasad Subhas Pharande	Kamthe pmv pvt.ltd, Kharghar, Navi Mumbai
11	Rohit Namdev Lohar	Akshay Comstructions, satara
12	Rahul Sopan Vairat	SA Enterprises, Wai
13	Pradnyanesh Baliram Lokare	V.V(B.S) Multi.services LLB, Kolhapur
14	Nandukumar Narayan Jagtap	Akshay Comstructions, satara
15	Sujit Hariram Sutar	Chavan Constructions, Tarle Patan Satara
16	Suraj Nanaso Bichukale	V.V(B.S) Multi.services LLB, Kolhapur
17	Aditya Krishnant Mulik	Anitra Builders & Developers, Wai
18	Sanket Sashikant Jadhav	Rajveer Builders, Satara

19	Akshay Krishnath Phanase	V.V(B.S) Multi.services LLB,Kolhapur
20	Shantaram Jayavant Madane	V.V(B.S) Multi.services LLB,Kolhapur
21	Aniket Dadu Bhosale	Chavan Constructions,Tarle Patan Satara
22	Vaishnavi Laxman Gurav	Anitra Builders & Developers, Wai
23	Ajay H. Dhobale	Deep Constructions,Satara
24	Chaitanya Sashikant Raut	Rajveer Builders,Satara
25	Prajwal Pradipkumar Shinde	Rajveer Builders,Satara
26	Gunjan Santosh Ghadage	Deep arch Constructions, Umbraj Karad
27	Kalyani Sunil More	Salunkhe Constructions Satara
28	Swaranjali Shankar Katkar	Aadhi Structural and Engineers pvt.ltd
29	Pallavi Datatray Chavan	Deep arch Constructions, Umbraj Karad
30	Rushikesh Pawar	D.M. and Associates Consultancy Services , Atapadi
31	Sayali Datatray Daphale	Sai Construction Architects and Engineers, Gargoti Kolhapur
32	Omkar Kambale	D.M. and Associates Consultancy Services , Atapadi

C. Impact Analysis:



- These training programs have helped students in the development of good projects in their final year.
- 2Most of the student's undergone training has got recruited by different software & core companies.
- 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 team work and leadership skills.

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 at the industry.
- The feedback is conducted to understand the satisfaction of the students on the initiative and the scope for improvement in the initiative for the 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 submission of 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/ senior 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

Have you got opportunity to work in team? *

☐ Yes

☐ No

Was there ample opportunity of Learning? *

☐ Yes

☐ No

Would you recommend your juniors for training in this company? *

☐ Yes

☐ No

Have you got realistic preview of career field ? *

☐ Yes

☐ No

Suggestions *

Your answer

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Figure B.2.2.5 g Sample Feedback Form of Industrial Training/Internship

CRITERION 03	COURSE OUTCOMES AND PROGRAM OUTCOMES	120
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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 Civil 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)

Mechanical Engineering graduates will be able to	
PSO1	The students will be able to analyse and design a system to meet desired needs , using basic knowledge of science, mathematics and technology in view to keep in pace with the recent development.
PSO2	Civil Engineering students will be able to plan and perform various activities on construction projects.

3.1.1. Course Outcomes (COs) (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (05)

Sem	Course	CO	Course Outcome
SEM-3	Mechanics of Solids (BTCVC302)	BTCVC302.1	Perform the stress-strain analysis.
		BTCVC302.2	Draw force distribution diagrams for members and determinate beams.
		BTCVC302.3	Find deflections in determinant beams.
		BTCVC302.4	Visualize force deformation behavior of bodies.

SEM-4	Surveying I I (BTCVC 402)	BTCVC 402.1	Set out horizontal curves.
		BTCVC 402.2	Carry out a geodetic survey, taking accurate measurements using instruments and apply mathematical adjustment of errors involved in surveying measurements.
		BTCVC 402.3	Plan a survey for applications such as road alignment and height of the building
		BTCVC 402.4	Invoke advanced surveying techniques over conventional methods in the field of civil engineering.
SEM-5	Structural Mechanics-II (BTCVC502)	BTCVC502.1	Have a basic understanding of matrix method of analysis and will be able to analyze the determinant structure
		BTCVC502.2	Have a basic understanding of the principles and concepts related to finite difference and finite element methods
		BTCVC502.3	Have a basic understanding of concept of influence line
		BTCVC502.4	Explain the basic concept of structural vibration and its mathematical models.

SEM-6	Waste Water Treatment (BTCVE605A)	BTCVE605A.1	Determine the sewage characteristics and design various sewage treatment plants.
		BTCVE605A.2	Understand municipal water and wastewater treatment system design and operation.
		BTCVE605A.3.	Apply environmental treatment technologies and design processes for treatment of industrial waste water
		BTCVE605A.4	Understand the rural sanitation schemes.
SEM-7	Water Resources Engineering (BTCVC703)	BTCVC703.1	Understand need of Irrigation in India and water requirement as per farming practice in India
		BTCVC703.2	Understand various irrigation structures and schemes.
		BTCVC703.3	Develop basis for design of irrigation schemes.
		BTCVC703.4	Classify the various irrigation structures and schemes.
SEM-8	Soil Structure Interaction (BTCESS802E)	BTCESS802E.1	Relate with the practical significance and importance of Soil-Structure interaction
		BTCESS802E.2	Model Soil-structure interaction problems using various concepts
		BTCESS802E.3	Compute various parameters associated with dynamic analysis of structure and foundation
		BTCESS802E.4	Apply the theories of Dynamic Soil-Structure Interaction to various practical Engineering problems

3.1.2. CO-PO matrices of courses selected in 3.1.1 (six matrices to be mentioned; one per semester from the 3rd to the 8th semester) (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: Mechanics of Solids (BTCVES302)												
Course Outcome	Course Outcome											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTCVES302.1	2	2		1	1	3	2	1				2
BTCVES302.2	2	2	2			2	2	1				2
BTCVES302.3	1	2	3	2	1		1					2
BTCVES302.4	2	2	3	2	1			1				3
Average	1.75	2.00	2.67	1.67	1.00	2.50	1.67	1.00				2.25

Course Name: Surveying II (BTCVC 402)												
Course Outcome	Course Outcome											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTCVC 402 .1	3	1				2	2					
BTCVC 402. 2	3	3	3	1		2	2					2
BTCVC 402. 3	3	3	2	1		2	2					
BTCVC 402. 4	3	2	1			2	2					2
Average	3.00	2.25	2.00	1.00		2.00	2.00					2.00

Course Name: Structural Mechanics-II (BTCVC502)												
Course Outcome	Course Outcome											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTCVC502.1	3	2	2	1	1		1					3
BTCVC502.2	3	1	1		1					1		2
BTCVC502.3	3	1	1	1		2				1		2
BTCVC502.4	3	1				1	1					
Average	3.00	1.25	1.33	1.00	1.00	1.50	1.00			1.00		2.33

Course Name: Waste Water Treatment (BTCVE605A)												
Course Outcome	Program Outcome (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTCVE605A..1	3	2	3			1						
BTCVE605A..2	3	2	3			1						
BTCVE605A..3	2	2	3			1						
BTCVE605A..4				1			2	2	2	1		
Average	2.67	2.00	3.00	1.00		1.00	2.00	2.00	2.00	1.00		

Course Name: Water Resources Engineering(BTCVC703)												
Course Outcome	Program Outcome (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTCVC703.1	2				2					1		2
BTCVC703.2	2				1					1		1
BTCVC703.3	2	2	3	1	2	2	2		2	2	2	1
BTCVC703.4	2	1				1	1		2			1
Average	2.0	1.5	3.0		1.7	1.5	1.5					1.3

Course Name: Soil Structure Interaction (BTCESS802E)												
Course Outcome	Program Outcome (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTCESS802E.1	3	2	2	2	2	1	1		1		2	2
BTCESS802E.2	3	1	1	1		1	1	1			1	3
BTCESS802E.3	2	2	2	2	1	1			1	1	1	2
BTCESS802E.4	1	2	1		1						1	3
Average	2.3	1.8	1.5	1.7	1.3	1.0	1.0	1.0	1.0	1.0	1.3	2.5

CO-PSO matrices

Course Name: Mechanics of Solids (BTCVES302)		
Course	PSO1	PSO2
BTCVES302.1	2	1
BTCVES302.2		
BTCVES302.3		1
BTCVES302.4	1	2
Average	3	4

Course Name: Surveying II (BTCVC 402)		
Course	PSO1	PSO2
BTCVC 402.1	2	
BTCVC 402.2		1
BTCVC 402.3	1	1
BTCVC 402.4	2	2
Average	2	1

Course Name: Structural Mechanics-II BTCVC502		
Course	PSO1	PSO2
BTCVC502.1	3	2
BTCVC502.2	3	1
BTCVC502.3	2	
BTCVC502.4	1	
Average	2	2

Course Name: Waste Water Treatment (BTCVE605A)		
Course	PSO1	PSO2
BTCVE605A.1		1
BTCVE605A.2	2	2
BTCVE605A.3		2
BTCVE605A.4	1	2
Average	1.50	1.75

Course Name: Water Resources Engineering(BTCVC703)		
Course	PSO1	PSO2
BTCVC703.1	2	1
BTCVC703.2	1	2
BTCVC703.3	1	
BTCVC703.4	2	2
Average	1.50	1.67

Course Name: Soil Structure Interaction (BTCESS802E)		
Course	PSO1	PSO2
BTCESS802E.1	1	1
BTCESS802E.2		2
BTCESS802E.3	1	
BTCESS802E.4	1	2
Average	1.00	1.67

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.

CO-PO Mapping Matrix

Class	Course Name & Code	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
FY-SEMI	Engineering Mathematics – I(BTBS101)	2.75	1.75	2		1							1.5
	Engineering Physics (BTBS102)	2.25	1.5	2		2.5	1		3	1.5	2		1.5
	Engineering Graphics(BTES103)	1.33	2.25	2	2					3			1.33
	Communication Skills(BTHM104)					1.67	1.67		2	2	3		2.75
	Energy & Environment Engineering (BTES105)	2.33		2.5		1.5	1.5	3	2	1.5	2		2.5
	Basic Civil & Mechanical Engineering(BTES106)	2.25		1.5	1	3	1.5	1	3	2	1.67	1	2
	Engineering Physics Lab(BTBS107L)	2	2	2		3	3	3		2	2		2
	Engineering Graphics Lab(BTES108L)	1.67	3	2.5	3	1.67			1	2.5	2.5		2.5
	Communication Skills Lab(BTHM109L)					1.67	1.67		2	2	3		2.75
FY-SEMI	Engineering Mathematics –II (BTBS201)	2.75	2	1	1.5								1.33
	Engineering Chemistry (BTBS202)	2.95	2.92	2.93			2.99	2.94					3.01

	Engineering Mechanics(BTES203)	2.25	2.5	2	2	1				2	2.5		2
	Computer Programming in "C"(BTES204)		2.25	2	2								1.5
	Workshop Practices (BTES205)	1.67	3	2.5	3	1.67			1	2.5	2.5		2.5
	Basic Electrical & Electronics Engineering(BTES206)	2.5		3	1	3		1.5	2	2.67	2		3
	Computer Programming Lab(BTBS207L)	1.75	2	2.25		3	3	1.5		2	2.5		2
	Engineering Chemistry Lab(BTBS208L)	1.75	2	2.25		3	3	1.5		2	2.5		2
	Engineering Mechanics Lab(BTES209L)	1.75	1.33	1.75			1.5	1					1
	Mini Project (BTES210P)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3
	Field Training / Internship/Industrial Training (BTES211P)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3
SY- SEMIII	Engineering Mathematics-III(BTBSC301)	1.25	1.67	2		1.25				2		1	1.75
	Mechanics of Solids(BTCVC302)	1.75	2	2	1.67	1	1.5	1.67	1				2.25
	Hydraulics-I(BTCVC303)	1.75	1.67	2	2	2.25	2	2.33					2
	Surveying-I(BTCVC304)	2	1.75	3		1.5	1.75	1.75					2
	Building Construction(BTCVC305)	2.25	1.5	1.25		2	1.67	2					1.25
	Engineering Geology(BTCVC306)	2.25	1.5	1.67		2	2	2					2
	Soft Sills Development(BTHM303)					1.67	1.67		2	2	3		2.75
	Hydraulics Laboratory	1.75	1.75	1.33	2	2.25	2	2.25					2

SY- SEM IV	I(BTCVCL307)												
	Surveying Laboratory I(BTCVL308)	1.75	1.67	2	1.25	2.25	2	2.25					2
	Building Constructions Drawing Laboratory(BTCVL309)	2.25	1.5	1.25		2	2	2					2
	Engineering Geology Laboratory(BTCVL310)	2	1.75	2.5		1.67	2	2					2
	Seminar on topic of field visit to Foundation Work(BTCVS311)	3	2		2	1			1				3
	Field Training/Internship/Industrial (BTCVF312)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3
SY- SEM IV	Hydraulics-II(BTCVC401)	1.75	1.5	1.75	1.5	2	2.25	2					1.25
	Surveying-II(BTCVC402)	2	2.25	2	1	2	2	2					2
	Structural Mechanics- I(BTCVC403)	2	1.33	1.67	2	1.5	1.5	1					1.25
	Product Design Engineering – I(BTID405)	2		3	1								1
	Planning for Sustainable Development(BTCVE404B)	2	1.5	1.75	1.67		1.67	1.25					2
	Engineering Management(BTCVC406)	2				2			2	2	2	2	2
	Basic Human Rights(BTHM3401)			2		2					2		1
	Hydraulics Laboratory- II(BTCVL407)	2	1.33	2	2	2.25							2
	Surveying Lab II(BTCVL408)	2	1.25	1.25	2	2.25	2	2.25					2
	Mechanics of Solids Lab(BTCVL409)	2	1.5	2	2	2.25	2	2.25					2

	Mini Project(BTCVM410)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3
	Seminar on topic of field visit to work involving superstructure construction(BTCVCF411)	3	2		2	1			1				3
TY- SEM V	Design of Steel Structures(BTCVC501)	1.75	1.75	2	1.33	2		2				1	2
	Structural Mechanics-II(BTCVC502)	2	1.33	1.67	2	1.5	1.5	1					1.25
	Soil Mechanics(BTCVC503)	2	1.25	1.25	1	1.67	2	2					2
	Environmental Engineering(BTCVC504)	2	1.25	1.5	1	2	1	2					2
	Transportation Engineering(BTCVC505)	2	1.5	1.75	1	1.25	2	1.5				1	2
	Materials, Testing & Evaluation(BTCVE506A)	2.25	1.33	1.75	1	1		1.75					2
	Essence of Indian Traditional Knowledge(BTHM507)	3	2		2	1			1				3
	Soil Mechanics Laboratory(BTCVL508)	2	1.5	2	2	2.25	2	1.75					2
	Environmental Engineering Laboratory(BTCVL509)	2	1.5	2	1	1.75	2	1					2
	Transportation Engineering Laboratory(BTCVL510)	2	1.75	1.25	2	2.25	2	1.75					2
	Seminar on Topic of Field Visit to works related to Building Services(BTCVS511)	3	2	2	2	1	2	2	1		2	2	3
TY- SEM VI	Design of Concrete Structures I(BTCVC601)	1.67	2	1.5		2	1	2	1.5			1.5	1.67
	Foundation Engineering(BTCVC602)	1.75	1.5	1.5	2	2	1	2					2
	Concrete	2		1.33	1	2	1.75	1.75					2

	Technology(BTCVC603)												
	Project Management(BTCVC604)	1.33	1.33	1.5	2	1.5	1					1.67	1.2
	Waste Water Treatment(BTCVE605A)	2	1.5	1.75	1.5		2	2					2
	Building Planning and Design(BTCVC606)	2	2	1.5	2	2	1	2	1.75		2	2	2
	Concrete Technology Laboratory(BTCVL607)	2	2	1.5	2	2					2		2
	Building Planning, Design and Drawing Laboratory(BTCVL608)	2	2	1.5	2	2	1	2	1.75		2	2	2
	Community Project (Mini Project)(BTCVM609)	2.67	3	2	2	1	2	2		2	2		2
	Seminar on Topic of Field Visit Road Construction (BTCVS610)	3	2	2	2	1	2		1	2		2	3
	Industrial Training (BTCVF611)	2	2	1.5	2	2	1	2	1.75	1.25	2	2	2
B-Tech- SEM VII	Design of Concrete Structures II(BTCVC701)	1.67	2	1.5		2	1	2	1.5			1.5	1.67
	Infrastructure Engineering (BTCVC702)	2	1	2	2	1	2						
	Water Resources Engineering (BTCVC703)	2	2	2	1	1.75	2	1	2				1.5
	Professional Practices(BTCVC704)	2	1.75	2	2	1.67	2	2	1.5	1.5	1.5	1.5	2
	Construction Techniques(BTCVE705A)	2	2.25	1.5	2	2	2	2	1.25	1.25	2	3	2
	Air Pollution Control(BTCVOE706B)	2	2	2	2	1.75	2	1	2				1.67
	Design & Drawing of RC &	2.65	2.89	2.57	2.68	2.89	2.57	2.68		2.63	2.65		

	Steel Structures (BTCVL707)												
	Professional Practices (BTCVL708)	2	1.75	2	3	1.67	2	2	1.5	1.5	1.5	1.5	2
	Field Training / Intern ship/Industrial Training (BTCVT709)	3	2	3	2	2.5	3	2	3	2.67	2.5	3	3
	Seminar (BTCVS710)	3	2	2	2	2	2	2	2	2	2	2	3
	Project Stage-I(BTCVP711)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3
BTech- SEM VIII	Maintenance and repair of concrete structures (BTCVSS801D)	2	1.5	1.5	2	2.25	2	2					2
	Soil structure interaction (BTCESS802E)	2	1.5	1.5	2	2	1.5	2	1.75	2	2	2	1.67
	Project-II(BTCEP803)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3
ACTUAL AVERAGE PO		2.15	1.85	1.99	1.82	1.91	1.95	1.89	1.92	2.14	2.24	2.07	2.09

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

Academic Year: 2020-21		Program Specific Outcome (PSO)	
Class	Class	PSO1	PSO2
FY-SEM	Engineering Mathematics –I(BTBS101)	2	1
	Engineering Physics (BTBS102)		
	Engineering Graphics (BTES103)	1.00	
	Communication Skills (BTHM104)		
	Energy & Environment Engineering (BTES105)	2.00	1.00
	Basic Civil & Mechanical Engineering (BTES106)	1.00	
	Engineering Physics Lab (BTBS107L)		
	Engineering Graphics Lab (BTES108L)	1.00	
	Communication Skills Lab (BTHM109L)		
FY-SEM II	Engineering Mathematics –II (BTBS201)		
	Engineering Chemistry (BTBS202)		
	Engineering Mechanics (BTES203)		

	Computer Programming in “C” (BTES204)		
	Workshop Practices (BTES205)		
	Basic Electrical & Electronics Engineering (BTES206)		
	Computer Programming Lab (BTBS207L)		
	Engineering Chemistry Lab (BTBS208L)		
	Engineering Mechanics Lab (BTES209L)	2.00	1.00
	Mini Project (BTES210P)	1.00	1.00
	Field Training / Internship/Industrial Training (BTES211P)	1.00	1.00
SY SEM- IV	Engineering Mathematics-III(BTBSC301)	2.66	2.67
	Mechanics of Solids (BTCVC302)	1.50	1.33
	Hydraulics I (BTCVC303)	2.00	2.00
	Surveying-I(BTCVC304)	2.00	2.00
	Building Construction (BTCVC305)	2.00	2.00
	Engineering Geology (BTCVC306)	2.00	2.00
	Soft Sills Development (BTHM303)	1.00	1.00
	Hydraulics Laboratory I(BTCVCL307)	2.00	2.00
	Surveying Laboratory I(BTCVL308)	2.00	2.00
	Building Constructions Drawing Laboratory(BTCVL309)	2.00	2.00
	Engineering Geology Laboratory (BTCVL310)	3.00	2.00
	Seminar on topic of field visit to Foundation Work(BTCVS311)	2.00	1.00
	Field Training/Internship/Industrial	2.00	1.00

	(BTCVF312)		
TY-SEM IV	Hydraulics-II(BTCVC401)	2.00	2.00
	Surveying-II(BTCVC402)	2.00	1.00
	Structural Mechanics-I(BTCVC403)	2.00	2.00
	Product Design Engineering – I(BTID405)	3.00	2.00
	Planning for Sustainable Development(BTCVE404B)	2.00	1.00
	Engineering Management(BTCVC406)	3.00	2.00
	Basic Human Rights(BTHM3401)	3.00	2.00
	Hydraulics Laboratory-II(BTCVL407)	3.00	2.00
	Surveying Lab II (BTCVL408)	2.00	1.00
	Mechanics of Solids Lab(BTCVL409)	2.00	1.00
	Mini Project(BTCVM410)	2.00	1.00
TY- SEM V	Seminar on topic of field visit to work involving superstructure construction(BTCVCF411)	3.00	2.00
	Design of Steel Structures(BTCVC501)	2.00	2.00
	Structural Mechanics- II(BTCVC502)	2.00	1.00
	Soil Mechanics(BTCVC503)	2.00	1.00
	Environmental Engineering(BTCVC504)	2.00	1.00
	Transportation Engineering(BTCVC505)	2.00	2.00
	Materials, Testing & Evaluation(BTCVE506A)	2.00	1.00
	Essence of Indian Traditional Knowledge(BTHM507)	1.00	3.00
	Soil Mechanics Laboratory(BTCVL508)	1.00	2.00
	Environmental Engineering	1.00	2.00

	Laboratory(BTCVL509)		
	Transportation Engineering Laboratory(BTCVL510)	2.00	2.00
BTech-SEM VII	Seminar on Topic of Field Visit to works related to Building Services(BTCVS511)	3.00	2.00
	Design of Concrete Structures I(BTCVC601)	3.00	2.00
	Foundation Engineering(BTCVC602)	2.00	2.00
	Concrete Technology(BTCVC603)	2.00	2.00
	Project Management(BTCVC604)	2.00	1.00
	Waste Water Treatment(BTCVE605A)	2.00	2.00
	Building Planning and Design(BTCVC606)	2.00	2.00
	Concrete Technology Laboratory(BTCVL607)	3.00	2.00
	Building Planning, Design and Drawing Laboratory (BTCVL608)	1.00	1.00
	Community Project (Mini Project) (BTCVM609)	1.00	1.00
	Seminar on Topic of Field Visit Road Construction (BTCVS610)	1.00	1.00
	Industrial Training(BTCVF611)	1.00	2.00
	Design of Concrete Structures II(BTCVC701)	1.00	2.00
	Infrastructure Engineering(BTCVC702)	2.00	1.00
	Water Resources Engineering(BTCVC703)	2.00	2.00
	Professional Practices(BTCVC704)	2.00	2.00
	Construction Techniques(BTCVE705A)	2.00	2.00
	Air Pollution Control(BTCVOE706B)	2.00	2.00
	Design & Drawing of RC & Steel	2.76	2.73

B.Tech -SEM VIII	Structures(BTCVL707)		
	Professional Practices (BTCVL708)	2.00	2.00
	Field Training / Intern ship/Industrial Training(BTCVT709)	2.00	1.00.
	Seminar(BTCVS710)	2.00	1.00
	Project Stage-I(BTCVP711)	2.00	1.00
	Maintenance and repair of concrete structures (BTCVSS801D)	1.00	2.00
	Soil structure interaction (BTCESS802E)	1.00	2.00
	In-house Project or Internship and Project in Industry*Project-II(BTCEP803)	1.00	2.00
Average CO-PSO Mapping		1.90	1.66

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)

(Examples of data collection processes may include, but are not limited to tutorial questions, assignments, laboratory tests, project evaluation, student portfolios(A portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period), internally developed assessment exams, project presentations, oral exams etc.)

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 need 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 identifies, collects, and prepares 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

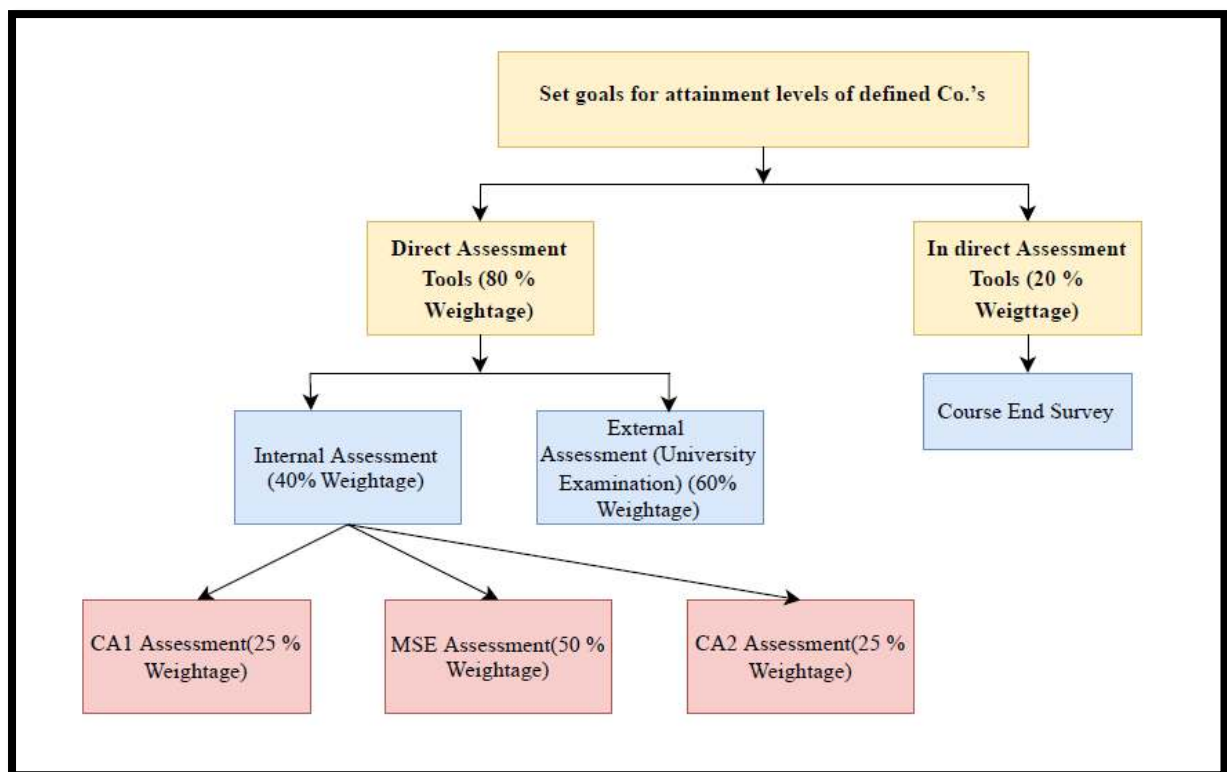
- Direct Assessment Method:

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

Theory



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

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

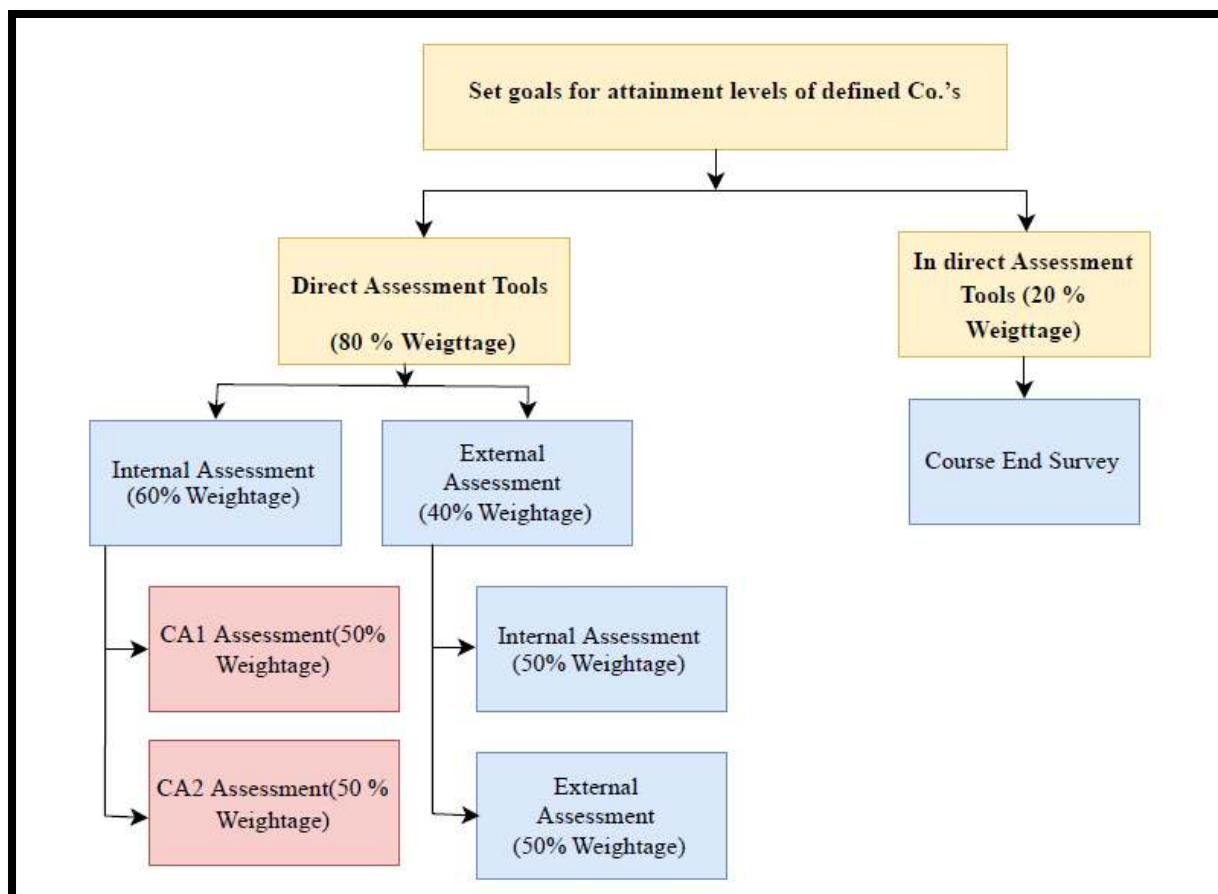


Fig2 Process of defining CO attainment practical examination

Theory

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

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%

Laboratory

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

Course Name: Mechanics of Solids Year: 2019-20 Course Code: (BTCVC302) Sem-III						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Final Direct Course Attainment	Target	Remark
C302.1	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	1.8	Attended
C302.2		1.1	3	2.90	1.8	Attended
C302.3		1.14	3	2.94	1.8	Attended
C302.4		1.12	3	2.92	1.8	Attended

Course Outcome Attainment: 2.94

Course Name: Surveying I I Year: 2019-20 Course Code: (BTCVC 402) Sem-IV						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C402.1	[CA1]/ [CA2]/ [ESE]	1.20	3	3.00	1.8	Attended
C402.2		1.10	3	2.90	1.8	Attended
C402.3		1.14	3	2.94	1.8	Attended
C402.4		1.20	3	3.00	1.8	Attended

Course Outcome Attainment: 2.96

Course Name: Structural Mechanics-II Year: 2020-21 Course Code: (BTCVC502) Sem-V						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C502.1	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	1.95	Attended
C502.2		1.2	3	3.00	1.95	Attended
C502.3		1.2	3	3.00	1.95	Attended
C504.4		1.2	3	3.00	1.95	Attained

Course Outcome Attainment: 2.98

Course Name: Waste Water Treatment Year: 2020-21 Course Code: (BTCVE605A) Sem –VI						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C605A.1	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	1.95	Attended
C605A.2		1.2	3	3.00	1.95	Attended
C605A.3		1.2	3	3.00	1.95	Attended
C605A.4		1.2	3	3.00	1.95	Attended

Course Outcome Attainment: 3.00

Course Name: Water Resources Engineering Year: 2020-21 Course Code: (BTCVC703) Sem -VII						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C703.1	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	2.1	Attended
C703.2		1.2	3	3.00	2.1	Attended
C703.3		1.2	3	3.00	2.1	Attended
C703.4		1.2	3	3.00	2.1	Attended

Course Outcome Attainment: 3.00

Course Name: Soil Structure Interaction**Year :** 2021-22**Course Code:** (BTCESS802E)**Sem –VIII**

Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C802E.1	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	2.1	Attended
C802E.2		1.2	3	3.00	2.1	Attended
C802E.3		1.2	3	3.00	2.1	Attended
C802E.4		1.2	3	3.00	2.1	Attended

Course Outcome Attainment: 3

CO Attainment:

Course No	Course Name	CO1	CO2	CO3	CO4	Average CO Attainment
(BTBS101)	Engineering Mathematics – I	2.92	2.88	2.88	2.92	2.90
		Attained	Attained	Attained	Attained	Attained
(BTBS102)	Engineering Physics	2.91	2.93	2.96	2.98	2.94
		Attained	Attained	Attained	Attained	Attained
(BTES103)	Engineering Graphics	2.48	2.45	2.48	2.41	2.46
		Attained	Attained	Attained	Attained	Attained
(BTHM104)	Communication Skills	2.81	2.87	2.93	2.82	2.86
		Attained	Attained	Attained	Attained	Attained
(BTES105)	Energy & Environment Engineering	2.98	2.94	2.89	2.90	2.86
		Attained	Attained	Attained	Attained	Attained
(BTES106)	Basic Civil & Mechanical Engineering	2.90	2.82	2.82	2.90	2.86
		Attained	Attained	Attained	Attained	Attained
(BTBS107L)	Engineering Physics Lab	1.97	2.89	2.47	2.93	2.56
		Attained	Attained	Attained	Attained	Attained
(BTES108L)	Engineering Graphics Lab	2.48	2.45	2.48	2.41	2.46
		Attained	Attained	Attained	Attained	Attained
(BTHM109L)	Communication Skills Lab	2.87	2.85	2.87	2.93	2.88
		Attained	Attained	Attained	Attained	Attained
(BTBS201)	Engineering Mathematics – II	2.92	2.88	2.82	2.76	2.84
		Attained	Attained	Attained	Attained	Attained
(BTBS202)	Engineering Chemistry	2.96	2.96	2.96	2.96	2.96
		Attained	Attained	Attained	Attained	Attained
(BTES203)	Engineering Mechanics	2.96	2.96	2.96	2.96	2.96
		Attained	Attained	Attained	Attained	Attained
(BTES204)	Computer Programming in “C”	2.48	2.47	2.47	2.47	2.47
		Attained	Attained	Attained	Attained	Attained
(BTES205)	Workshop Practices	2.45	2.45	2.93	2.45	2.57
		Attained	Attained	Attained	Attained	Attained
(BTES206)	Basic Electrical & Electronics Engineering	2.90	2.82	2.82	2.90	2.86
		Attained	Attained	Attained	Attained	Attained
(BTBS207L)	Computer Programming	2.48	2.47	2.47	2.47	2.47

	Lab	Attained	Attained	Attained	Attained	Attained
(BTBS208L)	Engineering Chemistry Lab	2.43	2.93	2.91	2.47	2.68
		Attained	Attained	Attained	Attained	Attained
(BTES209L)	Engineering Mechanics Lab	2.50	2.47	2.45	2.45	2.47
		Attained	Attained	Attained	Attained	Attained
(BTES210P)	Mini Project	2.48	2.47	2.43	2.45	2.46
		Attained	Attained	Attained	Attained	Attained
(BTES211P)	Field Training / Internship/Industrial Training)	1.56	1.49	1.49	1.49	1.49
		Attained	Attained	Attained	Attained	Attained
(BTBSC301)	Engineering Mathematics- III	2.00	2.56	2.88	2.80	2.45
		Attained	Attained	Attained	Attained	Attained
BTCVC302	Mechanics of Solids	2.89	2.81	2.84	2.82	2.84
		Attained	Attained	Attained	Attained	Attained
(BTCVC303)	Hydraulics I	2.91	2.91	2.91	2.91	2.91
		Attained	Attained	Attained	Attained	Attained
(BTCVC304)	Surveying-I	2.94	2.86	2.87	2.88	2.89
		Attained	Attained	Attained	Attained	Attained
(BTCVC305)	Building Construction	2.93	2.85	2.88	2.86	2.88
		Attained	Attained	Attained	Attained	Attained
(BTCVC306)	Engineering Geology	2.93	2.85	2.88	2.86	2.88
		Attained	Attained	Attained	Attained	Attained
(BTHM303)	Soft Silts Development)	1.14	1.14	1.14	1.14	1.14
		Attained	Attained	Attained	Attained	Attained
(BTCVCL307)	Hydraulics Laboratory I	2.60	2.59	2.61	2.60	2.60
		Attained	Attained	Attained	Attained	Attained
(BTCVL308)	Surveying Laboratory I	2.60	2.59	2.61	2.60	2.60
		Attained	Attained	Attained	Attained	Attained
(BTCVL309)	Building Constructions Drawing Laboratory	2.60	2.59	2.61	2.60	2.60
		Attained	Attained	Attained	Attained	Attained
(BTCVL310)	Engineering Geology Laboratory	2.61	2.56	2.56	2.11	2.46
		Attained	Attained	Attained	Attained	Attained
(BTCVS311)	Seminar on topic of field visit to Foundation Work	1.49	1.49	1.49	1.49	1.49
		Attained	Attained	Attained	Attained	Attained
(BTCVF312)	Field	2.78	2.82	2.90	2.90	2.80

	Training/Internship/Industr	Attained	Attained	Attained	Attained	Attained
(BTCVC401)	Hydraulics-II	2.92	2.90	2.92	2.92	2.92
		Attained	Attained	Attained	Attained	Attained
(BTCVC402)	Surveying-II	2.92	2.85	2.87	2.92	2.89
		Attained	Attained	Attained	Attained	Attained
(BTCVC403)	Structural Mechanics-I	2.94	2.91	2.87	2.88	2.90
		Attained	Attained	Attained	Attained	Attained
(BTID405)	Product Design Engineering – I	2.92	2.90	2.92	2.92	2.92
		Attained	Attained	Attained	Attained	Attained
(BTCVE404B)	Planning for Sustainable Development	2.94	2.94	2.92	2.94	2.93
		Attained	Attained	Attained	Attained	Attained
(BTCVC406)	Engineering Management	1.49	1.49	1.49	1.49	1.49
		Attained	Attained	Attained	Attained	Attained
(BTHM3401)	Basic Human Rights	1.49	1.49	1.49	1.49	1.49
		Attained	Attained	Attained	Attained	Attained
BTCVL407	Hydraulics Laboratory-II	2.94	1.47	2.93	2.92	2.56
		Attained	Attained	Attained	Attained	Attained
(BTCVL408)	Surveying Lab II	2.92	1.47	2.93	2.92	2.56
		Attained	Attained	Attained	Attained	Attained
(BTCVL409)	Mechanics of Solids Lab	2.92	1.47	2.93	2.92	2.56
		Attained	Attained	Attained	Attained	Attained
(BTCVM410)	Mini Project	2.48	2.47	2.43	2.45	2.45
		Attained	Attained	Attained	Attained	Attained
(BTCVCF411)	Seminar on topic of field visit to work involving superstructure	2.78	2.80	2.80	2.93	2.10
		Attained	Attained	Attained	Attained	Attained
(BTCVC501)	Design of Steel Structures	2.59	2.80	2.93	2.92	2.81
		Attained	Attained	Attained	Attained	Attained
(BTCVC502)	Structural Mechanics- II	2.60	2.80	2.93	2.92	2.81
		Attained	Attained	Attained	Attained	Attained
(BTCVC503)	Soil Mechanics	1.52	1.66	1.45	1.63	1.57
		Attained	Attained	Attained	Attained	Attained
(BTCVC504)	Environmental Engineering	2.37	2.71	2.81	2.70	2.65
		Attained	Attained	Attained	Attained	Attained
(BTCVC505)	Transportation Engineering	2.86	2.91	2.71	2.70	2.79
		Attained	Attained	Attained	Attained	Attained
(BTCVE506A)	Materials, Testing & Evaluation	2.15	2.15	2.14	2.16	
		Attained	Attained	Attained	Attained	Attained
(BTHM507)	Essence of Indian Traditional Knowledge	1.10	1.11	1.13	1.12	1.11
		Attained	Attained	Attained	Attained	Attained
(BTCVL508)	Soil Mechanics Laboratory	2.90	2.88	2.88	2.40	2.76

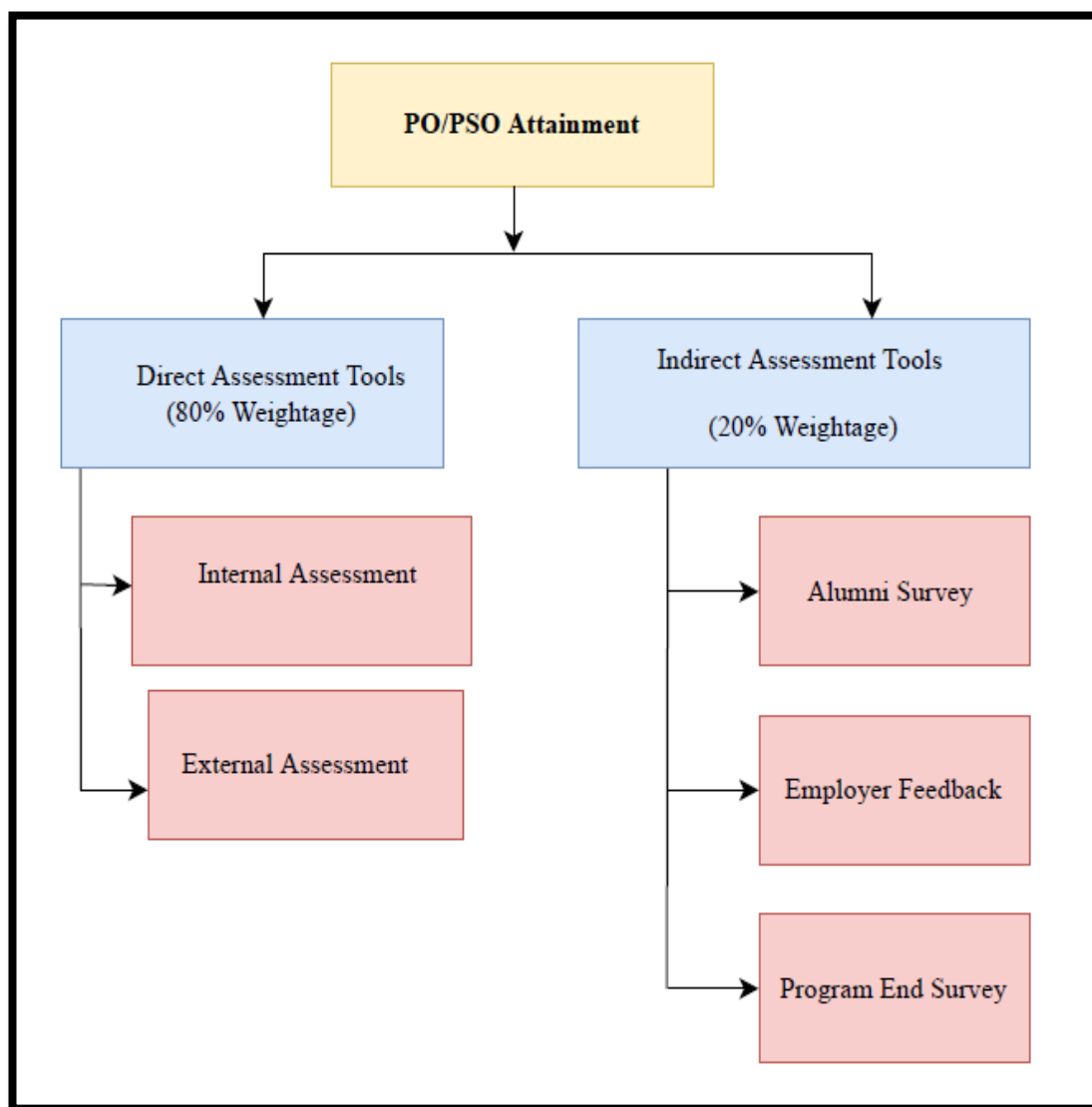
		Attained	Attained	Attained	Attained	Attained
(BTCVL509)	Environmental Engineering Laboratory	2.93	2.93	2.93	2.93	2.93
		Attained	Attained	Attained	Attained	Attained
BTCVL510)	Transportation Engineering Laboratory	1.94	2.93	2.45	2.93	2.56
		Attained	Attained	Attained	Attained	Attained
(BTCVS511)	Seminar on Topic of Field Visit to works related to Building Services	1.49	1.49	1.49	1.49	1.49
		Attained	Attained	Attained	Attained	Attained
(BTCVC601)	Design of Concrete Structures I	2.61	2.84	2.84	2.84	2.92
		Attained	Attained	Attained	Attained	Attained
(BTCVC602)	Foundation Engineering	2.63	2.91	2.84	2.86	2.81
		Attained	Attained	Attained	Attained	Attained
(BTCVC603)	Concrete Technology	2.62	2.87	2.84	2.93	2.81
		Attained	Attained	Attained	Attained	Attained
(BTCVC604)	Project Management	2.42	2.71	2.76	2.62	2.63
		Attained	Attained	Attained	Attained	Attained
(BTCVE605A)	Waste Water Treatment	2.60	2.80	2.93	2.92	2.81
		Attained	Attained	Attained	Attained	Attained
(BTCVC606)	Building Planning and Design	2.84	2.89	2.84	2.76	2.83
		Attained	Attained	Attained	Attained	Attained
(BTCVL607)	Concrete Technology Laboratory	2.93	2.93	2.93	2.93	2.93
		Attained	Attained	Attained	Attained	Attained
(BTCVL608)	Building Planning, Design and Drawing Laboratory	2.93	2.94	2.91	2.93	2.92
		Attained	Attained	Attained	Attained	Attained
(BTCVM609)	Community Project (Mini Project)	2.48	2.47	2.43	2.45	2.45
		Attained	Attained	Attained	Attained	Attained
(BTCVS610)	Seminar on Topic of Field Visit Road Construction	2.00	2.00	2.15	2.56	2.15
		Attained	Attained	Attained	Attained	Attained
(BTCVF611)	Industrial Training	2.13	2.26	2.56	2.56	2.48
		Attained	Attained	Attained	Attained	Attained
(BTCVC701)	Design of Concrete Structures II	1.91	1.87	1.79	1.74	1.83
		Attained	Attained	Attained	Attained	Attained
(BTCVC702)	Infrastructure Engineering	2.08	2.20	2.07	1.98	2.08
		Attained	Attained	Attained	Attained	Attained
(BTCVC703)	Water Resources	1.86	1.93	1.79	1.75	1.83

	Engineering	Attained	Attained	Attained	Attained	Attained
(BTCVC704)	Professional Practices	2.13	2.26	1.88	2.33	2.15
		Attained	Attained	Attained	Attained	Attained
(BTCVE705A)	Construction Techniques	1.65	1.78	1.40	1.85	1.67
		Attained	Attained	Attained	Attained	Attained
(BTCVOE706B)	Air Pollution Control	2.07	2.55	2.08	2.53	2.31
		Attained	Attained	Attained	Attained	Attained
(BTCVL707)	Design & Drawing of RC & Steel Structures lab	2.91	2.90	2.88	2.90	2.90
		Attained	Attained	Attained	Attained	Attained
(BTCVL708)	Professional Practices Lab	1.65	1.78	1.40	1.85	1.67
		Attained	Attained	Attained	Attained	Attained
(BTCVT709)	Field Training / Internship/Industrial Training.	2.13	2.26	2.56	2.56	2.48
		Attained	Attained	Attained	Attained	Attained
(BTCVS710)	Seminar	2.00	2.00	2.15	2.56	2.15
		Attained	Attained	Attained	Attained	Attained
(BTCVP711)	Project Stage-I	2.11	2.05	2.04	2.09	2.07
		Attained	Attained	Attained	Attained	Attained
(BTCVSS801D)	Maintenance and repair of concrete structures	1.66	1.79	1.62	1.85	1.73
		Attained	Attained	Attained	Attained	Attained
BTCESS802E	Soil Structure Interaction	1.65	1.78	1.63	1.85	1.73
		Attained	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)

(Describe the assessment tools and processes used to gather the data upon which the evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)



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 programme in providing students with opportunities to achieve the POs and PSOs every year.

Process for Evaluation and Assessment of POs & PSOs

The activity, questionnaires 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

$$\text{PO/PSO Attainment} = 0.8 * \text{Direct Attainment} + 0.2 * \text{Indirect Attainment}$$

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
Examiner Feedback

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

Program shall set Program Outcome attainment levels for all POs & PSOs.

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

PO Attainment:

Class	Course Name & Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
FY-SEMI	Engineering Mathematics –I(BTBS101)		2.25	2.00	2.00								1.50
	Engineering Physics (BTBS102)	1.00	2.00			1.00	1.00	1.00			2.00	1.00	1.00
	Engineering Graphics(BTES103)	1.67	3.00	2.50	3.00	1.67			1.00	2.50	2.50		2.50
	Communication Skills(BTHM104)					1.67	1.67		2	2	3		2.75
	Energy & Environment Engineering (BTES105)	2.33		2.50		1.50		3.00	2.00				2.50
	Basic Civil & Mechanical Engineering(BTES106)	2.25		2.00	2.00	3.00	2.00	2.00	3.00	2.00	1.67	3.00	2.00
	Engineering Physics Lab(BTBS107L)	2.00	2.00	2.00		3.00	3.00	3.00	3.00	2.00	2.00		2.00
	Engineering Graphics Lab(BTES108L)	1.67	3.00	2.50	3.00	1.67			1.00	2.50	2.50		2.50
	Communication Skills Lab(BTHM109L)					1.67	1.67		2	2	3		2.75
FY-SEMII	Engineering Mathematics –II (BTBS201)		2.25	2.00	2.00								1.50
	Engineering Chemistry (BTBS202)	2.25		2.00	2.00	3.00	2.00	2.00	3.00	2.00	1.67	3.00	2.00
	Engineering Mechanics(BTES203)	2.67	3.00	2.00	2.00	1.00				2.00	2.00		2.00
	Computer Programming in “C”(BTES204)	1.75	1.00	2.00	2.00	2.50			2.00	2.00	2.50		2.00
	Workshop Practices (BTES205)	3.00		1.67	2.00	2.33				2.00	1.00	2.00	2.00
	Basic Electrical &Electronics Engineering(BTES206)	3.00		3.00	3.00	3.00		2.00	2.00	2.67	2.00		2.67
	Computer Programming Lab(BTBS207L)		2.00	2.25		3.00	3.00	1.50		2.00	2.50		2.00
	Engineering Chemistry Lab(BTBS208L)	2.25	2.00	2.50			1.00	2.00		2.00	2.50		1.50
	Engineering Mechanics Lab(BTES209L)	2.67	3.00	2.00	2.00	1.00				2.00	2.00		2.00
	Mini Project (BTES210P)					1.00				2.67	2.67		1.75
	Field Training / Internship/Industrial Training (BTES211P)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3

SY-SEMI III	Engineering Mathematics-III(BTBSC301)	1.25	1.67	2		1.25				2		1	1.75
	Mechanics of Solids(BTCVC302)	1.75	2.00	2.67	1.67	1.00	2.50	1.67	1.00				2.25
	Hydraulics-I(BTCVC303)	2.00	1.67	2.00	2.00	2.25	2.00	2.33					2.00
	Surveying-I(BTCVC304)	2.00	2.00	2.50		2.00	2.00	2.00					2.00
	Building Construction(BTCVC305)	2.25	2.00	2.00		2.00	2.00	2.00					2.00
	Engineering Geology(BTCVC306)	2.25	2.00	2.00		2.00	2.00	2.00					2.00
	Soft Silts Development(BTHM303)	1.25				1.33		1.00	2	1.33	1.67		1.00
	Hydraulics Laboratory I(BTCVCL307)	2.00	1.75	2.00	2.00	2.25							2.00
	Surveying Laboratory I(BTCVL308)	2.00	1.50	2.00	2.00	2.25							2.00
	Building Constructions Drawing Laboratory(BTCVL309)	2.25	2.00	2.00		2.00							2.00
	Engineering Geology Laboratory(BTCVL310)	2.00	2.00	2.50		2.00							2.00
	Seminar on topic of field visit to Foundation Work(BTCVS311)	3	2		2	1			1				3
SY-SEM IV	Field Training/Internship/Industrial (BTCVF312)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3
	Hydraulics-II(BTCVC401)	2.00	2.25	2.00	2.00		2.25	2.00					2.00
	Surveying-II(BTCVC402)	3.00	2.25	2.00	1.00		2.00	2.00					2.00
	Structural Mechanics-I(BTCVC403)	2.00	2.25	2.00	2.00	2.00	1.33	2.00					2.00
	Product Design Engineering – I(BTID405)	2.00	2.25	2.00	2.00		2.25	2.00					2.00
	Planning for Sustainable Development(BTCVE404B)	2.00	1.67	2.00	2.00	2.00	2.00	2.00					2.00
	Engineering Management(BTCVC406)	1.500	2.000	1.000	1.250	1.667				1.000	2.000		
	Basic Human Rights(BTHM3401)	1.50	2.00	1.00	1.25	1.67				1.00	2.00		
	Hydraulics Laboratory-II(BTCVL407)	2.00	1.50	2.00	2.00	2.25							2.00
	Surveying Lab II(BTCVL408)	2.00	1.50	2.00	2.00	2.25							2.00
	Mechanics of Solids Lab(BTCVL409)	2.00	1.50	2.00	2.00	2.25							2.00
	Mini Project(BTCVM410)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3
	Seminar on topic of field visit to work involving superstructure construction(BTCVCF411)	3	2		2	1			1				3

TY-SEM V	Design of Steel Structures(BTCVC501)	2.50	2.33	1.67	2.00	2.00	1.50	1.00		1.50	1.33		2.00
	Structural Mechanics- II(BTCVC502)	3.00	1.25	1.33	1.00	1.00	1.50	1.00			1.00		2.33
	Soil Mechanics(BTCVC503)	2.00	1.75	2.00	1.67	1.75	2.67	2.00	2.00	1.00	1.67	1.67	1.50
	Environmental Engineering(BTCVC504)	2.50	2.50	0.00	0.00		3.00	2.00	2.00				2.50
	Transportation Engineering(BTCVC505)	2.25	2.25			1.00	2.00				1.00	2.00	2.00
	Materials, Testing & Evaluation(BTCVE506A)	2.25	1.33	1.75	1	1		1.75					2
	Essence of Indian Traditional Knowledge(BTHM507)	1.00				1.50			1.50	1.50	1.33		1.33
	Soil Mechanics Laboratory(BTCVL508)	3.00	2.00	2.25			1.00	1.00		1.00	1.00		
	Environmental Engineering Laboratory(BTCVL509)	2.00	1.33	2.00	2.00	1.50					2.00		2.00
	Transportation Engineering Laboratory(BTCVL510)	2.50	1.75	1.75	1.75	1.75				1.50	1.50	2.00	2.00
	Seminar on Topic of Field Visit to works related to Building Services(BTCVS511)	1.50	2.00	1.00	1.25	1.67				1.00	2.00		
TY-SEM VI	Design of Concrete Structures I(BTCVC601)	2.75	2.33	1.50	1.33	1.75	1.50	1.00		2.00	1.25		1.75
	Foundation Engineering(BTCVC602)	2.00	1.75	0.00	0.00	1.75	2.00	1.00	0.00	0.00	2.00		1.67
	Concrete Technology(BTCVC603)	2.25	3.00	1.50	2.00	1.75	1.50	1.00		1.50	2.00		1.50
	Project Management(BTCVC604)	1.75	1.50	2.00	1.00	3.00	1.00	1.25	0.75	1.25	1.75	2.00	
	Waste Water Treatment(BTCVE605A)	2.67	2.00	3.00	1.00		1.00	2.00	2.00	2.00	1.00		
	Building Planning and Design(BTCVC606)		2.00	1.50	2.00	2.00	1.00	2.00	1.75		2.00	2.00	2.00
	Concrete Technology Laboratory(BTCVL607)	2.00	2.00	1.50	2.00	2.00					2.00		2.00
	Building Planning, Design and Drawing Laboratory(BTCVL608)	2.00	2.00	1.50	2.00	2.00	1.50	2.00	1.75		2.00	2.00	2.00
	Community Project (Mini Project)(BTCVM609)	2.00	1.00	1.00	1.67				1.25	1.67	1.00		2.00
	Seminar on Topic of Field Visit Road Construction (BTCVS610)	1.50	2.00	1.00	1.25	1.67				1.00	2.00		
	Industrial Training (BTCVF611)	2.67	2	3	2	2.5	3	2	3	2.67	2.5	3	3
B-Tech-SEM VII	Design of Concrete Structures II(BTCVC701)	2.8	2.0	1.7	1.0	1.0	2.0	2.3					1.3

	Infrastructure Engineering (BTCVC702)	2.0	1.0	2.0		1.0	2.0	2.3					1.3
	Water Resources Engineering (BTCVC703)	2.0	1.5	3.0		1.7	1.5	1.5					1.3
	Professional Practices(BTCVC704)	3.0	3.0	2.8	1.8	1.0		1.0	1.0	1.0	2.0	1.0	3.0
	Construction Techniques(BTCVE705A)	1.5	1.5	1.0	2.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	3.0
	Air Pollution Control(BTCVOE706B)	2.50	2.00	2.00	2.00	1.75	1.00	1.50		2.00	2.50		1.50
	Design & Drawing of RC & Steel Structures (BTCVL707)	2.75	2.75	2.00	1.50	1.50	1.00			1.00	1.00		1.00
	Professional Practices (BTCVL708)	3.00	3.00		1		1	2		2		1	
	Field Training / Intern ship/Industrial Training (BTCVT709)	2.3	2.5	3.0	2.5	2.0	2.5	1.5	3.0	2.7	2.5	2.0	2.3
	Seminar (BTCVS710)	2	2	1	1	2				1	2	2	2
BTech -SEM VIII	Project Stage-I(BTCVP711)	2.75	3.00	1.50	3.00	2.25	1.33	2.00	1.00	2.00	2.33		1.50
	Maintenance and repair of concrete structures (BTCVSS801D)	2.3	1.8	1.5	1.7	1.3	1.0	1.0	1.0	1.0	1.0	1.3	2.5
	Soil structure interaction (BTCESS802E)	2.3	1.8	1.5	1.7	1.3	1.0	1.0	1.0	1.0	1.0	1.3	2.5
	Project-II(BTCEP803)	2.75	3.00	1.50	3.00	2.25	1.33	2.00	1.00	2.00	2.33		1.50
ACTUAL AVERAGE PO Attainment		2.21	2.03	1.93	1.79	1.83	1.82	1.74	1.76	1.74	1.90	1.97	2.04

CO-PO Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.83	2.84	2.88	2.87	2.50	2.80	2.79	2.44	2.44	2.42	2.50	2.84
Direct Attainment	2.9	2.8	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.9	2.8
Indirect Attainment	2.69	2.86	2.98	2.9	1.2	2.69	2.86	1.1	1.1	1.01	1.1	2.86

PSO Attainment:

Academic Year: 2022-23		Program Specific Outcome (PSO)	
Class	Class	PSO1	PSO2
FY-SEM	Engineering Mathematics –I(BTBS101)	2.00	1.00
	Engineering Physics (BTBS102)		
	Engineering Graphics (BTES103)	1.00	
	Communication Skills (BTHM104)		
	Energy & Environment Engineering (BTES105)	2.00	1.00
	Basic Civil & Mechanical Engineering (BTES106)	1.00	
	Engineering Physics Lab (BTBS107L)		
	Engineering Graphics Lab (BTES108L)	1.00	
	Communication Skills Lab (BTHM109L)		
FY-SEM II	Engineering Mathematics –II (BTBS201)		
	Engineering Chemistry (BTBS202)		
	Engineering Mechanics (BTES203)		
	Computer Programming in “C” (BTES204)		
	Workshop Practices (BTES205)		
	Basic Electrical & Electronics Engineering (BTES206)		
	Computer Programming Lab (BTBS207L)		

	Engineering Chemistry Lab (BTBS208L)		
	Engineering Mechanics Lab (BTES209L)	2.00	1.00
	Mini Project (BTES210P)	1.00	1.00
	Field Training / Internship/Industrial Training (BTES211P)	1.00	1.00
SY SEM- III	Engineering Mathematics-III(BTBSC301)	2.00	
	Mechanics of Solids (BTCVC302)	2.68	2.67
	Hydraulics I (BTCVC303)	2.00	2.00
	Surveying-I(BTCVC304)	2.67	2.67
	Building Construction (BTCVC305)	2.00	2.00
	Engineering Geology (BTCVC306)	2.00	2.00
	Soft Sills Development (BTHM303)	1.00	1.00
	Hydraulics Laboratory I(BTCVCL307)	2.00	1.00
	Surveying Laboratory I(BTCVL308)	3.00	2.00
	Building Constructions Drawing Laboratory(BTCVL309)	2.00	3.00
	Engineering Geology Laboratory (BTCVL310)	2.00	1.00
	Seminar on topic of field visit to Foundation Work(BTCVS311)	2.00	1.00
	Field Training/Internship/Industrial (BTCVF312)	2.00	1.00
SY-SEM IV	Hydraulics-II(BTCVC401)	2.00	2.00
	Surveying-II(BTCVC402)	2.00	1.00
	Structural Mechanics-I(BTCVC403)	2.00	2.00
	Product Design Engineering – I(BTID405)	2.00	2.00
	Planning for Sustainable Development(BTCVE404B)	1.00	1.00
	Engineering Management(BTCVC406)	2.00	1.00

	Basic Human Rights(BTHM3401)	2.00	1.00
	Hydraulics Laboratory-II(BTCVL407)	2.00	2.00
	Surveying Lab II (BTCVL408)	3.00	2.00
	Mechanics of Solids Lab(BTCVL409)	3.00	2.00
	Mini Project(BTCVM410)	2.00	1.00
TY- SEM V	Seminar on topic of field visit to work involving superstructure construction(BTCVCF411)	2.00	1.00
	Design of Steel Structures(BTCVC501)	2.00	2.00
	Structural Mechanics- II(BTCVC502)	2.00	2.00
	Soil Mechanics(BTCVC503)	2.50	2.75
	Environmental Engineering(BTCVC504)		3.00
	Transportation Engineering(BTCVC505)	2.00	2.00
	Business Communication & Presentation Skills BTCVE506D	2.00	1.00
	Essence of Indian Traditional Knowledge(BTHM507)	1.00	
	Soil Mechanics Laboratory(BTCVL508)	2.00	2.00
	Environmental Engineering Laboratory(BTCVL509)	2.00	2.00
	Transportation Engineering Laboratory(BTCVL510)	2.00	2.00
TY-SEM VI	Seminar on Topic of Field Visit to works related to Building Services(BTCVS511)	2.00	1.00
	Design of Concrete Structures I(BTCVC601)	2.00	2.00
	Foundation Engineering(BTCVC602)	2.00	2.00
	Concrete Technology(BTCVC603)	2.00	2.00
	Project Management(BTCVC604)	2.00	1.00
	Waste Water Treatment(BTCVE605A)	3.00	1.00
	Building Planning and Design(BTCVC606)	2.00	2.00
	Concrete Technology Laboratory(BTCVL607)	2.00	2.00

	Building Planning, Design and Drawing Laboratory (BTCVL608)	2.00	2.00
	Community Project (Mini Project) (BTCVM609)	2.00	2.00
	Seminar on Topic of Field Visit Road Construction (BTCVS610)	1.00	2.00
	Industrial Training(BTCVF611)	1.00	2.00
	Design of Concrete Structures II(BTCVC701)	2.00	1.00
	Infrastructure Engineering(BTCVC702)	3.00	1.00
	Water Resources Engineering(BTCVC703)	1.80	1.50
	Professional Practices(BTCVC704)		2.00
	Construction Techniques(BTCVE705A)	3.00	2.00
	Air Pollution Control(BTCVOE706B)	2.50	1.50
	Design & Drawing of RC & Steel Structures(BTCVL707)	2.00	1.75

B.Tech -SEM VII	Professional Practices (BTCVL708)		2.00
	Field Training / Intern ship/Industrial Training(BTCVT709)	1.50	2.50
	Seminar(BTCVS710)	2.00	1.00
	Project Stage-I(BTCVP711)	2.75	1.50
B.Tech -SEM VIII	Maintenance and repair of concrete structures (BTCVSS801D)	2.50	2.00
	Soil structure interaction (BTCESS802E)	2.50	2.00
	In-house Project or Internship and Project in Industry*Project-II(BTCEP803)	2.80	1.50
Average CO-PSO Mapping		2.00	1.68

PSO Attainment:

Course	PSO1	PSO2
PSO Attainment	1.94	1.66
Direct Attainment	2.00	1.68
Indirect Attainment	1.70	1.56

CRITERION 04	Students' Performance	150
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4. STUDENTS' PERFORMANCE**(150)****TableB.4a**

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (2022-23)	CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)	CAYm3 (2018-19)	CAYm4 (2017-18)	CAYm5 (2016-17)
Sanctioned intake of the program(N)	60	60	60	60	60	60	45
Total number of students admitted in first year <i>minus</i> number of students migrated to other programs/institutions plus no. of students migrated to this program(N1)	04	18	20	12	13	6	10
Number of students admitted in 2 nd year in the same batch via lateral entry(N2)	15	55	55	53	58	66	41
Separate division students, if applicable(N3)	00	00	00	00	00	00	00
Total number of students admitted in the Program(N1+N2+N3)	19	73	75	65	71	72	51

CAY – Current Academic Year**CAYm1- Current Academic Year minus1= Current Assessment Year****CAYm2 - Current Academic Year minus2=Current****Assessment Year minus 1 LYG – Last Year Graduate****minus 1 LYGm1 – Last Year Graduate minus 1 LYGm2****– Last Year Graduate minus**

TableB.4b

Year of entry	N1+N2+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)	04(04+0+0)				
CAY(2021-22)	73(18+55+0)	03			
CAYm1(2020-21)	75(20+55+0)	13	58(10+48)		
CAYm2(2019-2020)	65(12+53+0)	04	25(4+21)	22(11+11)	
CAYm3(2018-2019)	71(13+58+0)	06	54(06+48)	54(06+48)	53(06+47)
CAYm4 (LYG)(2017-18)	72(6+66 +0)	00	33 (00+33)	33(00+33)	33(00+33)
CAYm5 (LYGm1)(2016-17)	51(10+41+0)	01	3(00+3)	03(0+03)	3(0+3)

TableB.4c

Year of entry	N1+N2+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)	04(04+0+0)				
CAY(2021-22)	18(18+0+0)	13			
CAYm1(2020-21)	75(20+55+0)	13	66(13+53)		
CAYm2(2019-2020)	65(12+53+0)	11	(64)11+53	61(11+50)	
CAYm3(2018-2019)	71(13+58+0)	08	(64)07+57	(64)07+57	61(7+54)
CAYm4 (LYG)(2017-18)	72(6+66 +0)	03	(65) 03+62	(63)03+60	(61)03+58
CAYm5 (LYGm1)(2016-17)	51(10+41+0)	03	(20) 03+17	(17)02+15	(17)02+15

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

	N from table B.4a	N1 from table B. 4a	Enrollment ratio
CAY(2022-23)	60	04	0.06
CAY(2021-22)	60	18	0.3
CAYm1(2020-21)	60	20	0.3
CAYm2(2019-20)	60	12	0.2
Average Enrollment=$(ER1+ER2+ER3)/3=(0.3+0.3+0.2)/3 = 0.266$			

TableB.4.1

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

4.2. Success Rate in the stipulated period of the program (40)**4.1.1. Success rate without backlogs in any semester/year of study (25)**

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

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

Success rate without backlogs in any year of study = $25 \times \text{Average SI}$

Success rate without backlogs in any year of study = $25 \times \text{Average SI} = 25 \times 0.39 = 9.75$

TableB.4.2.1

Item	Last Year of Graduate, LYG(CAY _{m4}) (2018-19)	Last Year of Graduate, LYG(CAY _{m4}) (2017-18)	Last Year of Graduate minus s1,LYG _{m1} (CAY _{m5}) (2016-17)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	71	72	51
Number of students who have graduated without backlogs in the stipulated period	48	33	03
Success Index (SI)	0.67	0.45	0.06
Average SI	0.39		

4.1.2. Success rate in stipulated period of study**(15)**

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

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

Success rate = 15 × Average SI

Success rate = 15 × Average SI = 15 × 0.69 = 10.35

TableB.4.2.2

Item	Last Year of Graduate, LYG(CAY _m 4) (2018-19)	Last Year of Graduate, LYG(CAY _m 5) (2017-18)	Last Year of Graduate minus1, LYG _m 1 (CAY _m 6) (2016-17)
Number of students admitted in the corresponding First Year+ admitted in 2 nd year via lateral entry and separate division ,if applicable	71	72	51
Number of students who have graduated in the stipulated period	63	61	17
Success Index(SI)	0.89	0.84	0.33
Average Success Index	0.69		

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)*

*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)) * (number of successful students/number of students appeared in the examination)*

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

TableB.4.3

Academic Performance	CAYm1 (2021-22)	CAYm2 (2020-21)	CAYm3 (2019-20)
Mean of CGPA or Mean Percentage of all successful students(X)	8.34	8.82	7.46
Total no. of successful students(Y)	61	64	65
Total no. of students appeared in the examination(Z)	61	64	65
API = X * (Y/Z)	API = 8.34	API = 8.82	API = 7.46

Average API = (API + API1 + API2) / 3	(8.21)
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Academics Performance = 1.5 * Average API 1.5 * (8.21) = (12.32)

4.4 Academic Performance in Second Year**(15)**

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

*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)) * (number of successful students / number of students appeared in the examination)*

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

Table B.4.4

Academic Performance	CAYm1 (2021-22)	CAYm2 (2020-21)	CAYm3 (2019-20)
Mean of CGPA or Mean Percentage of all successful students (X)	7.25	9.03	8.92
Total no. of successful students (Y)	65	64	64
Total no. of students appeared in the examination (Z)	65	64	64
API = X * (Y/Z)	API = 7.25	API1 = 9.03	API2 = 8.92
Average API = (API + API1 + API2) / 3	8.4		

Academic Performance = 1.5 * Average API 1.5 * (8.4) = (12.6)

4.5 Placement, Higher Studies and Entrepreneurship**(40)**

Assessment Points=40×average placement= 40*0.873= 34.933

TableB.4.5

Item	CAYm1 (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)
Total No. of Final Year Students(N)	61	63	17
No .of students placed in companies or Government Sector(x)	39	54	15
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	0
No. of students turned entrepreneur in engineering/technology(z)	00	08	02
x+y+z=	39	62	17
Placement Index:(x+y+z)/N	0.64	P1=0.98(1)	P2= 1(1)
Average placement=(P1+P2+P3)/3	0.87		

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

Civil Engineering (2021-22)				
Sr. No	Name of Students	Enrollment No	Name of the Employer	Appointment letter Reference No
1	Nalawade Siddhant Rajendra	1965451191001	Skayline Construction, Satara	TPC/ 9110/ 2022/1001
2	Yedage Pratiksha Govind	1965451191002	Aerial Mappers, Pune	TPC/ 9110/ 2022/1002
3	Swami Smita	1965451191005	A.R. Kulkarni Associate, sangali	TPC/ 9110/ 2022/1005
4	Desai Ajinkya Vijay	1965451191009	A.S.DESAI INFRA. PVT LTD. SATARA	TPC/ 9110/ 2022/1009
5	Khavale Swapnil Digambar	1965451191016	Salunkhe Construction, karad	TPC/ 9110/ 2022/1016
6	Patil Tejswini Prakash	1965451191024	Aerial Mappers, Pune	TPC/ 9110/ 2022/1024
7	Malusare Vaibhav	1965451191053	Aerial Mappers, Pune	TPC/ 9110/ 2022/1053
8	Shelar Kanchan Jayavant	1965451191026	S.P. Infra karad prin Pend	TPC/ 9110/ 2022/1026
9	Gavane Prashant Sopan	1965451191039	Skayline Construction, Satara	TPC/ 9110/ 2022/1039
10	Kale Pruthviraj Kisan	1965451191040	Skayline Construction, Satara	TPC/ 9110/ 2022/1040
11	Salunkhe Prathmesh S	1965451191045	Yessar geomatics Pvt. Ltd, Pune	TPC/ 9110/ 2022/1045
12	Dipti Indalkar	1965451191054	Aerial Mappers, Pune	TPC/ 9110/ 2022/1054

13	Babar Aakanksha Vinayak	1965451191056	Aerial Mappers, Pune	TPC/ 9110/ 2022/1056
14	Pawar Vishwjeet Vinod	1965451191064	Skayline Construction, Satara	TPC/ 9110/ 2022/1064
15	Hujjaifa Farrukh Momin	1965451191067	Salunkhe Construction, karad	TPC/ 9110/ 2022/1067
16	Khot Shreeranjana Ravikumar	2065451191002	Integrum Property Services	TPC/ 9110/ 2022/21002
17	Shivthare Nikita R.	1965451191004	Space Designer, Satara print	TPC/ 9110/ 2022/1004
18	Patil Ramchandra Shivaji	1965451191006	V.S.R. CONSTRUCTION, KAWATEMAHAKAL	TPC/ 9110/ 2022/1006
19	Patole Ashutosh Somnath	1965451191010	Shankar Kumbhar Interior, satara	TPC/ 9110/ 2022/1010
20	Musale Harshada Ravindra	1965451191014	Yessar geomatics Pvt. Ltd, Pune	TPC/ 9110/ 2022/1014
21	Suryawanshi Vinayak Netaji	1965451191015	Skayline Construction, Satara	TPC/ 9110/ 2022/1015
22	Bhandare Akshay Arun	1965451191018	A. R. Constructions, Satara print	TPC/ 9110/ 2022/1018
23	Kadam Suraj Prakash	1965451191027	Model Developers, satara	TPC/ 9110/ 2022/1027
24	Khalatkar Shubham	1965451191028	Meera construction Boriwali print remain	TPC/ 9110/ 2022/1028
25	Sonawale Rushikesh Rajaram	1965451191038	Skayline Construction, Satara	TPC/ 9110/ 2022/1038
26	Jadhav Atharv Deepak	1965451191041	Delia Decorators, Pashan Pune	TPC/ 9110/ 2022/1041
27	Kamble Pratik Sunil	1965451191044	Shiv Construction, Gargoti	TPC/ 9110/ 2022/1044
28	Mechkar Ashitosh A	1965451191047	Das Associate, Wai	TPC/ 9110/ 2022/1047

29	Khatal Rajshree Madhukar	1965451191048	Shahikant Dhumal, Surveyer, satara	TPC/ 9110/ 2022/1048
30	Gaikwad Mahesh Lakshman	1965451191049	Skayline Construction, Satara	TPC/ 9110/ 2022/1049
31	Patil Amruta S.	1965451191050	Yessar geomatics Pvt. Ltd, Pune	TPC/ 9110/ 2022/1050
32	Jagtap Snehal Suresh	1965451191055	Yessar geomatics Pvt. Ltd, Pune	TPC/ 9110/ 2022/1055
33	Mane Ajit Jaysing	1965451191065	Skayline Construction, Satara	TPC/ 9110/ 2022/1065
34	Randive Neeraj D	1965451191066	Skayline Construction, Satara	TPC/ 9110/ 2022/1066
35	Chavan Mahesh	1965451191069	Utkarsh Pvt. Ltd.	TPC/ 9110/ 2022/1069
36	Akshata Kharade	5165452018111 911007	Aishwarya Interors Pvt. Ltd.	TPC/ 9110/ 2022/0071
37	Nikita Nikam	5165452018111 9110072	Aerial Mappers, Pune	TPC/ 9110/ 2022/0072
38	Ankita Doudmani	5165452018111 9110076	Aishwarya Interors Pvt. Ltd.	TPC/ 9110/ 2022/0076
39	Namrata Sapkal	1965451191046	Aerial Mappers, Pune	TPC/ 9110/ 2022/1046

Civil Engineering (2020-21)				
Sr. No.	Name of the student placed	Enrollment No.	Name of the Employer	Appointment letter reference No. with date
1	Lokare Pradnesh Baliram	5165452018111911 0033	Dimension Construction, Satara	TPC/9110/2021/033/01/0 8/2022
2	Chavan Mahesh Shankar	5165452018111911 0058	Utkarsh Pvt. Ltd., Baramati	TPC/9110/2021/058/22/0 7/2021
3	Dhokre Vikas Jaysing	5165452018111911 0049	Tata Computer Consultancy	TPC/9110/2021/049/04/0 4/2022
4	Mane Swarup Anil	5165452018111911 0064	Rigal College, Chiplun	TPC/9110/2021/064/30/0 6/2021

TableB.4.5a

5	Tarade Vaibhav Abaso	51654520181119110052	Dhumal Construction, Satara	TPC/9110/2021/091
6	Gurav Vashnavi Laxman	51654520181119110025	Sathe Group, Pune	TPC/9110/2021/025/11/03/2022
7	Mayur Balu Gulumkar	51654520181119110025	Tricon Infra Build Tech, Ltd.	TPC/9110/2021/001
8	Pujari Sachin Vitthal	51654520171119110010	Mahesh Patil Construction, Satara	TPC/9110/2021/010
9	Mane Omkar Suryakant	51654520171119110012	Infosys Ltd. Pune	TPC/9110/2021/012
10	Chavan Vikram Bhagavan	51654520181119110006	Trimurti Construction, Ashta	TPC/9110/2021/006
11	Jadhav Rohit Sanjay	51654520181119110007	Sugar Mill, Phalton	TPC/9110/2021/007
12	Dhobale Ajay Hement	51654520181119110015	Suyog Development Corporation, Satara	TPC/9110/2021/015
13	Patil Komal Ankush	51654520181119110018	Yesar Geomastic Pvt. Ltd. Pune	TPC/9110/2021/018
14	Sankapale Pooja Parashuram	51654520181119110020	Owner Design Studio, Dharwad	TPC/9110/2021/001/01/02/2021
15	Chavan Pallavi Dattatray	51654520181119110021	Kiran Pawar Construction, Ichalkaranji	TPC/9110/2021/021
16	Daphale Sayali Dattatray	51654520181119110022	Sathe Concerte Constrution, Pune	TPC/9110/2021/022
17	More Kalyani Sunil	51654520181119110023	Buyoji Co. Ltd. Solapur	TPC/9110/2021/023
18	Katkar Swaranjali Shankar	51654520181119110024	Akshai Katkar Associate, Satara	TPC/9110/2021/024
19	Chavan Pragati Sanjay	51654520181119110026	Stepron Technology, Pune	TPC/9110/2021/026
20	Patil Abhijit Bhikaji	51654520181119110030	Goal Ganga Construction, Pune	TPC/9110/2021/030
21	Mulik Adiya Krishnant	51654520181119110031	K.B. P. Civil Engg. Services Pune.	TPC/9110/2021/031
22	Jangam Saket Abhijit	51654520181119110032	Mitra Engg. & Contractor Pune	TPC/9110/2021/032
23	Kumbhar Rohit Mohan	51654520181119110035	Sukhvani Chavala Developers, Pune	TPC/9110/2021/035
24	Desai Sunil Shivaji	51654520181119110037	Strand Rebar Pune	TPC/9110/2021/037
25	Bhosale Aniket Dadu	51654520181119110038	Shrinath Construction, Satara	TPC/9110/2021/038
26	Gurav Vitthal Eknath	51654520181119110039	Max Construction, Mumbai	TPC/9110/2021/039
27	Bandgar Santosh Rajaram	5165452018111911	Mali Construction,	TPC/9110/2021/041

		0041	Kavtemahakal	
28	Ghadage Gunjan Santosh	51654520181119110042	S.S. Sathe Construction, Pune	TPC/9110/2021/042
29	Kothale Suvarna Pandurang	51654520181119110046	Rail VikasNogma Ltd. Pune	TPC/9110/2021/046
30	GuravPravin Suresh	51654520181119110048	T&T Infra Ltd. Pune	TPC/9110/2021/048
31	Jamdade Ranjit Dhanaji	51654520181119110050	Intelligent Design, Pune	TPC/9110/2021/050
32	Phanase Akshay Krishnat	51654520181119110051	Om Construction Pvt. Ltd. Katraj Pune	TPC/9110/2021/051
33	Tarade Vaibhav Abaso	51654520181119110052	Shrinath Construction, Phalton	TPC/9110/2021/052
34	Jagtap Nandkumar Narayan	51654520181119110054	Samarth Construction, Chakan	TPC/9110/2021/054
35	Mulla Altaf Ashpak	51654520181119110056	Aqua Food Exim Dapoli	TPC/9110/2021/056
36	Sapkal Vaibhav Anil	51654520181119110059	Gaitri Construction, Pune	TPC/9110/2021/059
37	Kamble Omkar Bhagwan	51654520181119110060	PanchyatSamitiKarad	TPC/9110/2021/060
38	Raut Chaitanya Shashikant	51654520181119110062	Rachana Construction Lonawala	TPC/9110/2021/062
39	Prajyot Ramchandra Jagtap	51654520181119110063	VIT Group, Hingwadi, Pune	TPC/9110/2021/063
40	Awale Prajwal Prashant	51654520181119110065	Lodha Group, Mumbai	TPC/9110/2021/065
41	Vairat Rahul Sopan	51654520181119110077	Swapnputi Construction, Wai	TPC/9110/2021/077
42	Phalke ShubhamVijay	51654520181119110008	Dhumal Construction, Satara	TPC/9110/2021/078
43	Jadhav Nitin Ashok	51654520181119110009	Innovative Construction, Satara	TPC/9110/2021/079
44	Sathe Yashwant Pandharinath	51654520181119110011	JW Infra, Satara	TPC/9110/2021/080
45	Sutar Sujit Hariram	51654520181119110012	Dhumal Construction, Satara	TPC/9110/2021/081
46	Shinde Prajwal Pradipkumar	51654520181119110016	Ramchaya Construction, Satara	TPC/9110/2021/082

47	Shinde Sonali Suresh	51654520181119110017	Innovative Construction, Satara	TPC/9110/2021/083
48	Patil Vaishnavi Vitthal	51654520181119110019	JW Infra, Satara	TPC/9110/2021/084
49	Sawant Sachin Suhas	51654520181119110027	Dhumal Construction, Satara	TPC/9110/2021/085
50	Kodag Vikas Pandurang	51654520181119110028	Ramchaya Construction, Satara	TPC/9110/2021/086
51	Mone Abhishek Mukund	51654520181119110036	Innovative Construction, Satara	TPC/9110/2021/087
52	Gaikwad Vikram Laxman	51654520181119110040	JW Infra, Satara	TPC/9110/2021/088
53	Khandzode Nikita Madhukar	51654520181119110044	Dhumal Construction, Satara	TPC/9110/2021/089
54	Phanase Akshay Krishnat	51654520181119110051	Ramchaya Construction, Satara	TPC/9110/2021/090

Entrepreneur in Civil Engineering(2020-2021)

Sr. No.	Name of the student placed	Enrollment No.	Name of the Company	letter reference No. with date
1	Kadam Arjun Suresh	51654520181119110034	Mahalaxmi Construction, Satara	TPC/9110/2021/034/09/07/2022
2	Lohar Rohit Namdeo	51654520181119110053	The Engineers Caffee	TPC/9110/2021/053/02/04/2021
3	Sutar Omkar Sanjay	51654520181119110003	Deparch Construction, Umbraj	TPC/9110/2021/003
4	Mali Eknath Sadashiv	51654520181119110004	Mali Construction, Sangli	TPC/9110/2021/004
5	Bichukale Suraj Nanaso	51654520181119110005	Shrinath Construction, Phalton	TPC/9110/2021/005
6	Randive Amol Sarjerao	51654520181119110029	A AEntprizes, Ghatkoper	TPC/9110/2021/029/21/12/2021
7	Jadhav Sanket Shashikant	51654520181119110055	Rajweer Builder, Satara	TPC/9110/2021/055

Civil Engineering (2019-20)

8	Jadhav Rohit Sanjay	51654520181119110 007	Ramchaya Construction, Satara	TPC/9110/2021/007
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Sr. No.	Name of the student placed	Enrollment No.	Name of the Employer	Appointment letter reference No. with date
1	Shelar Nilesh Shivaji	2017107854	ICICI Bank, Mumbai	TPC/9110/2020/854/18/07/2021
2	Bhosale Pratik Janardan	2017109216	NSIC Developers, Pune	TPC/9110/2020/216/01/02/2020
3	Jadhav Varsha Sandeep	2017107811	Shradha Construction, Pune	TPC/9110/2020/811
4	Molawade Vinayak Raghunath	2017107853	Spectrum Industry, Pune	TPC/9110/2020/853
5	Aatar Tanveer Hiralal	2016102775	Rajesh Deshmukh & Associate, Satara	TPC/9110/2020/775
6	Desai Aniruddha Ashok	2017107837	Pandit Jawadekar Associate, Pune	TPC/9110/2020/837
7	Guruv Rupesh Nivrutti	2017107846	Pharande Spaces, Pune	TPC/9110/2020/846
8	Nagkirti Sanghamitra Pandurang	2017107791	P.H. Infra Wakad, Pune	TPC/9110/2020/791
9	Nikam Abhijeet Subhash	2017107843	Om Chidanand Developers Pune	TPC/9110/2020/843
10	Rasal Kedar Hemant	2017107828	B.G. Shirke, Hadpsar	TPC/9110/2020/828
11	Shinde Tejal Satish	2017107814	S.D.S. Component design, Pimpri, Pune	TPC/9110/2020/814
12	Wadne Kaveri Gorakh	2017107805	Shashikant Dhumal, Surveyors, Satara	TPC/9110/2020/805
13	Shengane Mahesh Ashok	2017107839	Innovative Construction, Satara	TPC/9110/2020/854
14	Shinde Anupsinh Virsinh	2017107796	JW Infra, Satara	TPC/9110/2020/855
15	Jathar Raturaj Krishnat	2017107849	Dhumal Construction, Satara	TPC/9110/2020/856

Entrepreneur in Civil Engineering (2020-2021)

Sr. No.	Name of the student placed	Enrollment no.	Name of the Company	Reference letter no. with date
1	Mane Sourabh Bajirao	2017109227	Shree Datta Construction, Mhaswad	TPC/9110/2020/227
2	Shinde Anupsinh Virsinh	2017107796	Ratnprabha Construction, Bhuinj	TPC/9110/2020/796

Civil Engineering Year(2018-19)				
Sr. No.	Name of the student placed	Enrollm ent No.	Name of the Employer	Appointment letter reference No. with date
1	Shinde Mayuri A.	2015016067	Infosys Ltd. Bangalore	HRD/3T/10033434 71/21-22 10/01/2022
2	Jadhav Laxman Shankar	2015016050	Consulting Engineer Group Ltd. Jaipur Rajasthan	CEG/HR/2021Dec/ 06-55 6/12/2021
3	Attar Rizwana Jainuddin	2016100664	G.S. Group, Karad	TPC/9110/2019/66 4
4	Awad Sunil Kushappa	2016100581	Viraj, TNT, Mumbai	TPC/9110/2019/58 1
5	Bailkar Dipak Ravindrath	2016100587	FEAT Technology Mumbai	TPC/9110/2019/58 7
6	Bhosale Madhavrao Jaywantrao	2016100631	Vistas Corporation, Mumbai	TPC/9110/2019/63 1
7	Gadkari Pravin Krushna	2016100589	Jai Kumar, Navi Mumbai	TPC/9110/2019/58 9
8	Gurav Nikhil Arun	2016100634	Alfa Level, Pune	TPC/9110/2019/63 4
9	Kate Rajesh Bhalchandra	2016100623	Rail Vikas Nigam Ltd. Mumbai	TPC/9110/2019/62 3
10	Kumbhar Mayur Mahadev	2016100593	BMC magratta, Mulund	TPC/9110/2019/59 3
11	Mane Shantanu Sharad	2016100553	Shriganesh Construction, Satara	TPC/9110/2019/55 3
12	Monde Abaso Sampat	2016100551	Nirmal Green, Baner, Mumbai	TPC/9110/2019/65 1
13	Pati Shubham Sanjay	2016100584	D.R. Construction, Sangali	TPC/9110/2019/58 4
14	Salokhe Vishal Dattatray	2016100554	B.J. Shirke, Mumbai	TPC/9110/2019/55 4
15	Pawar Abhishek Suresh	2015016064	Infosys, Hingwadi, Mumbai	TPC/9110/2019/06 4
16	Salunkhe Akshay Shamrao	2015016061	Sree Construction, Mulund, Mumbai	TPC/9110/2019/06 1
17	Bagade Shraddha Sunil	2016100723	Ramchya Construction, Satara	TPC/9110/2019/72 3
18	Kumbhar Komal Chandrakant	2016100595	Shashikant Dhumal, Surveyers, Satara	TPC/9110/2019/59 5
19	Narkhedkar Mayur Rameshwar	2016100591	Sawant Construction, Satara	TPC/9110/2019/59 1
20	Wagh Switi Pramod	2015016051	Shashikant Dhumal, Surveyers, Satara	TPC/9110/2019/05 1

21	Salunkhe Suyash Sadanand	2014016063	Sawant Construction, Satara	TPC/9110/2019/063
22	Ghatage Vikramsingh Tanajirao	2016100695	Shashikant Dhumal, Surveyers, Satara	TPC/9110/2019/695
23	Shedge Onkar Prakash	2015016055	Ramchaya Construction, Satara	TPC/9110/2019/055
24	Sutar Ajay Anil	2016100710	Om Sai Construction, Mumbai	TPC/9110/2019/710
25	Thorat Amol Ramchandra	2016100731	BMC Mumbai	TPC/9110/2019/731
26	Patil Ajit Ashokrao	2016100548	Ramchaya Construction, Satara	TPC/9110/2019/857
27	Patil Dynaneshwar Raghunath	2016100728	Innovative Construction, Satara	TPC/9110/2019/858
28	Patil Shrinivas Sadashiv	2016100712	JW Infra, Satara	TPC/9110/2019/859
29	Swami Krutant Shivling	2016100572	Dhumal Construction, Satara	TPC/9110/2019/860
Entrepreneur in Civil Engineering (2018-2019)				
1	More Pratik Ananda	2016100727	Kshitij Construction, Pune	TPC/9110/2019/727
2	Patil Dnyaneshwar Raghunath	2016100728	Vighnhartha Foundation	TPC/9110/2019/728

Professional Activities (14/20)**4.6.1 Professional societies/chapters and organizing engineering events (05)****A) Availabilities of Professional Societies & Chapters'****YEAR 2021-22**

Sr. No.	Name of Members	Organization	Category	Reference No.
1	Dr. Prashant Bamane	Indian Geotechnical Society	Life Membership	3041018

B) Events Organized at Institute**Year 2022-23**

Sr. No	Name Of Activity	Date	Resorce Person	Type of activity (Guest Lecture/Quiz/Project Competition/Workshop)
1	AVISHKAR 2022-2023	18-11-2022	Dr. Mirajkar G. & Kadam Arjun A.	Research Convention Project Computation
2	Guest lecture on Management Studies	14-12-2022	Dr. Pranjali Ankule	Guest Lecture
3	Skill based Training Program	06-01-2023	Symboisis Skills and Professional University (SSPU)	Guest Lecture
4	IT Career in digital marketing (AJDM)	10-03-2023	Mr. Ajinkya Pawar (AJDM, India)	Guest Lecture
5	Opportunities in IT Industry & Japan	03-05-2023	Mr.Bipin Kadam	Guest Lecture
6	Recent Trends and opportunities in IT	19-05-2023	Mr. Shivraj Gaikwad (Rapportsoft Consulting Pune)	Guest Lecture

7	ICIRTES-2023 , (INTERNATIONAL CONFERENCE ON INNOVATIONS AND RECENT TRENDS IN ENGINEERING AND SCIENCE)	10-06-2023	Dr. Vilas Pharande	International Conference
8	Project competition	24-12-2023	Mr. Sapkal R.N.	Project competition
9	Corporate Grooming	21-02-2023 to 23-02- 2023	Mr. George	Guest Lecture
10	Guest lecture on Software Testing	05-05-2023	Mr. Suraj Sawant	Guest Lecture
11	Hands on & Workshop on Auto Cad.	2/12/2022 & 03-12- 2022	Ms. Shubhangi Hake Om Shree associates & Architects and landscape, Pune	Workshop
12	Expert lecture on “Bituminous binders for road pavements, their specifications, suitability etc. Slope stability, Foundation on expansive soil, soil reinforcing techniques.	27-03-2023	Mr. Ishwar Dayal	Expert lecture
13	Model developers and Chaitanya Residency, Satara.	17-04-2023	Mr. Makrand Dhavale Mr. Ranjit A Katkar Mr. Rajendra Sakpal	Visit
14	“Rachana Exhibition”	25-11-2022	Mr. R. N. Sakpal	Visit

15	How to create an effective resume	11-05-2023	Mr. Sharif Malik	Expert lecture
16	C, C++ on Turbo C and HTML	01/08/2023 to 14-08-2023	Mr. Swapnil Mapari Disha Computers, Satara	Workshop
17	C, C++ and Advance Java	07/08/2023 to 11/08/2023	Mr. Nilesh Sonawane Design Solution, Karad	Workshop
18	C, C++ and Python	07/08/2023 to 18/08/2023	Mrs. Pranali Nalwade , squirrel infotech satara	Workshop
19	PCB Design And manufacturing	07/08/2023 to 18/08/2023	Mr. Pravin Mohite , apron tech	Workshop
20	Automation in IOT	1/08/2023 to 31/08/2023	Mr. Tushar inamadar Squire wave automation pvt.ltd. Satara	Workshop
21	AUTOCAD	10/08/2023 to 18/08/2023	Mr. Mahesh Sathe Design Solution Satara	Workshop

Year 2021-22

Sr. No.	Name of Activity	Date	Resource Person	Type of activity (Guest Lecture/Quiz/Project Competition/Workshop)
1.	Expert lecture on Engineering Mathematics-III	27-01-2022	Asst. Prof. Amol Kalange	Guest Lecture
2.	Expert lecture on soil mechanics	27-01-2022	Dr. S.T. Shinde	Guest Lecture

3.	Expert lecture on infrastructural Engineering	27-01-2022	Mr. A.P. Bhalero	Guest Lecture
4.	Expert lecture on Surveying	28-01-2022	Asst. Prof. H.U. Mule	Guest Lecture
5.	Expert lecture on Design of steel structure	28-01-2022	Dr. A. G. Dhake	Guest Lecture
6.	Expert lecture on Construction technique	29-01-2022	Mrs. U. A. Mahadik	Guest Lecture
7.	Expert lecture on Mechanics of Solid	29-01-2022	Ms. P.P. Kamble	Guest Lecture
8.	Expert lecture on Transportation Engineering	29-01-2022	Mr. S.S. Chavan	Guest Lecture
9.	Expert lecture on Building Construction and drawing	31-01-2022	Prof. S.S. Nalawade	Guest Lecture
10.	Expert lecture on Design of Concrete Structure	31-01-2022	Prof. A.P. Khatri	Guest Lecture
11.	Expert lecture on Fluid Mechanics	01-02-2022	Dr. Mahesh Bhong	Guest Lecture
12.	Expert lecture on Structure Mechanics-II	01-02-2022	Mr. Jadhav R.H.	Guest Lecture
13.	Expert lecture on water resource management	01-02-2022	Dr. V.K. Naik	Guest Lecture
14.	Expert lecture on Business Communication & presentation Skill	02-02-2022	Dr. Bindu Arora	Guest Lecture
15.	Expert lecture on Business Environmental Engineering	02-02-2022	Mr. P.B. Bhagwati	Guest Lecture
16.	Expert lecture on Professional Practices	02-02-2022	Mr. A.N. Chavan	Guest Lecture

17.	Internal Hackthon of Smart India Hackthon 2022	28-04-2022 to 29-04-2022	Dr Mirajkar Gayatri	Project Competition
18.	Brand Yourself	17-05-2022 to 19-05-2022	Mr. George	Workshop

YEAR 2020-21

Sr. No.	Name of Activity	Date	Resource Person	Type of activity (Guest Lecture/Quiz/ Project Competition)
1	Online webinar on “Scope & Career in pile foundation engineering lecture on Software Online Development	10-10-2020	Dr. Sunil Basarkar (G.M. Afcon Infra. Ltd. Mumbai)	Online Guest Lecture
2	Online Guest lecture on Advance Infrastructure Engineering	10-10-2020	Mr. Amate R.A. (J.W. Infra Satara)	Online Guest Lecture
3	Online Guest lecture on recent techniques in Surveying	15-01-2021	Mr. Chafalkar Sir (JSPM Tathawade)	Online Guest Lecture
4	Online Guest lecture on Construction Management Career Opportunity	29-01-2021	Dr. Minde Sir (MIT Khothrud)	Online Guest Lecture
5	Online Guest lecture on Advanced Trends in Foundation	13-02-2021	Dr. Sorate Sir (JSPM Bawdhan)	Online Guest Lecture
6	Online Guest lecture on advanced development Waste water Treatment Plant	18-02-2021	Mr. Khatri A.P (JSPM Narhe)	Online Guest Lecture
7	Online Guest lecture on RCC Design	12-03-2021	Prof. Kakade Sir (COEP Pune)	Online Guest Lecture
8	Online Guest lecture on Architectural Design	26-03-2021	Mr. Milind Vasudev	Online Guest Lecture

YEAR 2019-20

Sr. No.	Name of Activity	Date	Resource Person	Type of activity (Guest Lecture/Quiz/Project Competition)
1	Guest Lecture on site Knowledge	03/02/2020	Mr. Vasudeo	Guest Lecture
2	Yugam – Four Week Training Program on Structural Engineering	29-7-2020 to 24-8-2020	1) Dr. Sarote R.R. (J.S.P.M. Bavdhan) 2) Prof. Khatri A.P. (J.S.P. M. Narhe) 3) Prof. Kakade. (C.O.E.Pune) 4) Prof. Chafalkar. (J.S.P. M. Tathwade) 5) Prof. Ban. (Raisoni Nagpur) 6) Prof. Kakade. (Bits, Palani) 7) Prof. Vasudav Milind (Lax Acedemy) 8) Dr. Minde (MIT Kothrud) 8) Mr. Jojo Mathew (HIT Nidasoshi) 9) Prof. Khandekar (PVPIT PUNE) 10) Dr. Wagh (Zeal College PUNE) 11) Prof. Vipul Naidu (PVPIT PUNE)	Online Training Program

3	Alumni Guest Lecture 'Today's job opportunities in market'	18/09/2019	Mr. Ganesh Shinde	Alumni Guest Lecture
4	Online Guest Lecture on Professional Practice	21/04/2020	Dr. V.K. Naik (Sharad Institute of Technology Yadrav)	Online Guest Lecture
5	Online Guest Lecture on Civil Infrastructure	30/04/2020	Mr. A.P. Bhalerao (Project Management Consultant Lawyer & JRF at Delhi Technology University)	Online Guest Lecture
6	Online Guest Lecture on Recent Techniques in Transportation Engineering	12/05/2020	Ms. S.S. Chavan (Sardar Patel College of Engineering , Mumbai)	Online Guest Lecture
7	Online Guest Lecture on Presentation Skills	20/05/2020	Dr. Bindu Arora (National Skill Development Corporation)	Online Guest Lecture
8	Online Guest Lecture on Fluid Mechanics	30/05/2020	Mr. Vipul Naidu (PVPIT Pune)	Online Guest Lecture
9	One day workshop on Auto CAD	3/06/2020	Mr. Vikram Bagade	Workshop

Year 2018-19

Sr. No.	Name of Activity	Date	Resource Person	Type of activity (Guest Lecture/Quiz/Project Competition)
1	One day workshop on STAAD-PRO	13/08/2018	Mr. Vikram Bagade	Workshop
2	Guest Lecture on Recent Trends & new law involved in Construction Industry	31/8/2018	Mr. Salunkhe Sir & Mr. Kirdat Sir	Guest Lecture
3	Visit on Urmodi Dam	18/1/2019	Urmodi Dam, Satara	Site Visit
4	Visit on Heramb Construction, Satara	18/1/2019	Heramb Construction, Satara	Site Visit

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

(The Department shall list the publications mentioned earlier along with the names of the editors, publishers, etc.)

Sr. No	Name of News letter	Year	Name of Editor	Publisher	Type
1	Wizard	2018-2019	Mr. Sapkal R.N.	Arvind Gavali College of Engineering Satara	Half Yearly
2	Wizard	2019-2020	Mrs. Jyoti Ramesh Mohite	Arvind Gavali College of Engineering Satara	Half Yearly
3	Wizard	2020-21	Dr. V.R. Thombare	Arvind Gavali College of Engineering Satara	Half Yearly
4	Wizard	2021-22	Dr. P. R. Bamane	Arvind Gavali College of Engineering Satara	Half 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 STUDENTS	RANK	NAME OF EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT
1	Swapnali Chavan	WINNER	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
2	Harshada Shinde	WINNER	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
3	Abhay Chorage	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
4	Akash Thorat	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
5	Sayali Gaikwad	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
6	Priyanka Kadam	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
7	Mayuri Sawant	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
8	Balram Kalbhor	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022

9	Avadhut Patil	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
10	Sanjana Kumbhar	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
11	Omkar Salgare	WINNER	AVISHKAR 2022	ZONAL	SHRAD INSTITUTE OF TECHNOLOGY, YADRAV	10-12-2022
12	Swapnali Chavan	PARTICIPANT	AVISHKAR 2022	ZONAL	SHRAD INSTITUTE OF TECHNOLOGY, YADRAV	10-12-2022
13	Harshada Shinde	PARTICIPANT	AVISHKAR 2022	ZONAL	SHRAD INSTITUTE OF TECHNOLOGY, YADRAV	10-12-2022
14	Sushlok Madane	PARTICIPANT	eMBArk 2k23	STATE LEVEL	KBP Management, Satara	13-04-2022
15	Sushlok Madane	PARTICIPANT	Yasho Techfest 2k23	STATE LEVEL	YSPM's Yashoda Technical Campus, Satara	11-04-2023
16	Anirudhha Gurav	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
17	Sayali Gaikwad	PARTICIPANT	Concrete Fest 2k23	STATE LEVEL	SGI, Atigre, Kolhapur	27-03-2023
18	Priyanka Kadam	PARTICIPANT	Concrete Fest 2k23	STATE LEVEL	SGI, Atigre, Kolhapur	27-03-2023
19	Mayuri Sawant	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
20	Balram Kalbhor	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
21	Avadhut Patil	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
22	Sanjana Kumbhar	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023

23	Omkar Salgare	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
24	Omkar Salgare	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
25	Akash Thorat	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
26	Abhay Chorage	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
27	Avadhut Patil	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
28	Shrikishna Chavan	PARTICIPANT	Milestone 2k23	NATIONAL LEVEL	TKIT, WARANANAGER	20-03-2023
29	Atul Kadam	PARTICIPANT	DISTRICT'10	STATE LEVEL	RIT, Islampur	15-04-2023
30	Atul Kadam	PARTICIPANT	eMBArk 2k23	STATE LEVEL	KBP Management, Satara	13-04-2022
31	Swapnali Chavan	Runner Up	Spectrum 2k23	STATE LEVEL	DACOE, Karad	21-03-2023
32	Atul Kadam	Winner	Concrete Fest 2k23	STATE LEVEL	SGI, Atigre, Kolhapur	27-03-2023
33	Sushlok Madane	Runner Up	Poster Presentation	STATE LEVEL	YSPM's Yashoda Technical Campus, Satara	20-04-2023
34	Swapnali Chavan	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
35	Aniket Babar	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
36	Neha Sakunde	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023

37	Sunny Shirke	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
38	Talha Momin	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
39	Shajama Pathan	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
40	Swapnali Chavan	PARTICIPANT	ROTAREX 2023	STATE LEVEL	ROTARY CLUB OF SATARA	17 & 18TH APRIL 2023
41	Patil Jaydip Jaywant	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
42	Pujari Vishal Vitthal	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
43	Shirke Sani Rajesh	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
44	Lokhande Shubham Bhimrao	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
45	Shaikh Gouspak Allauddin	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
46	Khare Omkar Dilip	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

47	Babar Aniket Anil	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
48	Gaikwad Sushant Parashram	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
49	Jagdale Sushant Bharat	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
50	Sakunde Neha Jitendra	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
51	Patil Prashant Dhanaji	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
52	Jadhav Parth Chandrakant	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
53	Roman Aniket Ramesh	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
54	Shibe Sneha Tanaji	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
55	Lingale Jeevan Shahaji	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
56	Shelar Sagar Mahadev	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

57	More Saish Sandeep	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
58	Shinde Snehal Anand	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
59	Bagwan Sahil Sameer	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
60	Momin Talha Shahanwaj	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
61	Ahire Shridhar Madan	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
62	Jagtap Pravin Mohan	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
63	Dhokal Nirmala Khadakbahadur	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
64	Jadhav Rajat Shivaji	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
65	Pathan Shajma Aslam	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
66	Katkar Suchita bhausaheb	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

67	Bandal Aakash Sanjay	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
68	Kamble Vikrant Tanaji	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
69	Salunkhe Aniket Bhaskar	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
70	Kale Manoj Kisan	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
71	Jagtap Ganesh Devidas	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
72	Patil Aadesh Dilip	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
73	Kadam Vishwanath Rajendra	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
74	Patil Vaibhav Vijay	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
75	Bandal Sushilkumar Dnyaneshwar	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
76	Lohar Kunal Pratap	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

77	Choudhari Omkar Sarjerao	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
78	Parmane Sourabh Kisan	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
79	Chikane Shubham Suresh	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
80	Ketan Parmar	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
81	Kadam Rudal Pratap	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
82	Hubale Kumar Dilip	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
83	Aditya Sawant	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
84	More Gaurav Vishwas	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
85	Savant Gurudatt Jayprakash	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
86	Shinde Aditya Vitthal	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

87	Bhosale Saurabh Dadaso	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
88	Kadam Rohan Netaji	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
89	Ghorpade Prajwal Ramchandra	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
90	Salunkhe Siddheshwar Vilas	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
91	Mohite Ankita Ashok	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
92	Rutuja Narendra Dubal	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
93	Raut Rohan Bapurao	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
94	Patankar Priyanka Dilip	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
95	Deokar Kiran Arun	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
96	Bagalkot Faisal Nasirahmad	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

97	Taware Omkar Samadhan	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
98	Shinde Suraj Ananda	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
99	Yadav Nikhil Vilas	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
100	Patil Shubham Shivaji	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
101	Patil Pratik Satish	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
102	Chikane Kiran Sitaram	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
103	Kalbhori Akshay Arun	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
104	Patil Shubham Sanjay	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
105	Detake Somesh Babaso	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
106	Samina Sayyad Mulani	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

YEAR 2022-23**NPTEL Certification**

Sr. No	Name of Students	Course ID	Course Name	Final Score	Certificate Type
1	Sakunde Neha Jitendra	NPTEL23CE06S 44600493	Maintenance and Repair of Concrete Structures	57%	SUCCESSFULLY COMPLETED

YEAR 2022-23**Extra Co-curricular activities**

Sr. No	Name of Students	Rank	Name of Event	Level	Event Organized Institute	Date of Event
1	Nikhil Wagh	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
2	Rutuja Barge	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
3	Sakshi Dhanawade	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
4	Triveni Powar	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
5	Mayuri Sawant	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
6	Pravin Hadpad	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022

7	Akash Thorat	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
8	Omkar Salgare	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
9	Pooja Kedare	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
10	Guru Rathod	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
11	Nikhil Wagh	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
12	Rutuja Barge	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
13	Sakshi Dhanawade	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
14	Triveni Powar	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
15	Mayuri Sawant	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023

16	Pravin Hadpad	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
17	Akash Thorat	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
18	Omkar Salgare	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
19	Pooja Kedare	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
20	Guru Rathod	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
21	Harshada Shinde	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
22	Sushlok Madane	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
23	Sushlok Madane	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023

24	Anirudhha Gurav	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
25	Sayali Gaikwad	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
26	Priyanka Kadam	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
27	Mayuri Sawant	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
28	Balram Kalbhor	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
29	Avadhut Patil	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
30	Sanjana Kumbhar	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	19-02-2023
31	Nikhil Wagh	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023

32	Rutuja Barge	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
33	Sakshi Dhanawade	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
34	Triveni Powar	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
35	Mayuri Sawant	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
36	Pravin Hadpad	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
37	Akash Thorat	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
38	Omkar Salgare	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
39	Pooja Kedare	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023

40	Harshada Shinde	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
41	Sushlok Madane	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
42	Sushlok Madane	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
43	Anirudhha Gurav	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
44	Sayali Gaikwad	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
45	Sushant Gaikwad	WINNER	KABBADI	STATE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	05-04-2023
46	Nikhil Wagh	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023
47	Rutuja Barge	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023

48	Sakshi Dhanawade	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023
49	Triveni Powar	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023
50	Mayuri Sawant	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023
51	Pravin Hadpad	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023
52	Akash Thorat	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023
53	Omkar Salgare	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023
54	Pooja Kedare	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023
55	Guru Rathod	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023

56	Nikhil Wagh	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023
57	Rutuja Barge	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING , SATARA	09-03-2023

YEAR 2021-22						
Co-curricular activities						
Sr. No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Momin Talha Shahanwaj	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
2	Bagwan Sahil Sameer	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
3	Pathan Shajma Aslam	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
4	Dhawal Nirmala Khadakbahadur	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
5	Shinde Snehal Anand	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
6	Hubale Kumar Dilip	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
7	Babar Aniket Anil	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
8	Shirke Sani Rajesh	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022

9	Sakunde Neha Jitendra	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
10	Shaikh Gouspak Allauddin	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
11	Gaikwad Sushant Parashram	Participation	Internal Hackathon of Smart India Hackathon 2022	Institute	Arvind Gavali College of Engineering, Satara	28-04-2022 to 29-04-2022
12	Mechkar Ashitosh A	Participation	Project Compitation	National	Dulatrao Aaher College of Engineering, Karad	20-05-2022
13	Jagtap Snehal Suresh	Participation	Project Compitation	National	Dulatrao Aaher College of Engineering	20-05-2022
14	Babar Aakanksha Vinayak	Participation	Project Compitation	National	Dulatrao Aaher College of Engineering	20-05-2022
15	Salunkhe Prathmesh S	Participation	Project Compitation	National	Dulatrao Aaher College of Engineering	20-05-2022

YEAR 2021-22**Extra Co-curricular activities**

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Patil Prashant Dhanaji	Participation	Speech Competition	State Level	SGM, College Karad	30-03-2022

YEAR 2021-22						
NPTEL Certification						
Sr. No	Roll Number	Course Id	Course Name	Name	Final Score	Certificate Type
1	NPTEL21CE14S190 4033	Noc21-ce14	Mechanical Characterization of Bituminous Material	Dhobale Ajay Hemant	62%	Successfully Completed
2	NPTEL21CE14S141 5017	Noc21-ce14	Mechanical Characterization of Bituminous Material	Sutar Omkar Sanjay	50%	Successfully Completed
3	NPTEL21CE26S130 0363	Noc21-ce26	Soil Structure Interaction	Jadhav Rohit Sanjay	49%	Successfully Completed
4	NPTEL21CE26S163 2537	Noc21-ce26	Soil Structure Interaction	Chavan Pallavi Dattareya	49%	Successfully Completed
5	NPTEL21CE13S129 5344	Noc21-ce13	Maintenance Repair & Concrete Structure	Gurav Vaishnavi Laxman	82%	Successfully Completed
6	NPTEL21CE13S180 1849	Noc21-ce13	Maintenance Repair & Concrete Structure	Dhokare Vikas Jaysingh	83%	Successfully Completed
7	NPTEL21CE36S148 3133	Noc21-ce36	Environmental Remediation of Contaminated Site	Sathe Yashwant Pandharinath	82%	Successfully Completed
8	NPTEL21CE36S119 7606	Noc21-ce36	Environmental Remediation of Contaminated Site	Sutar Sujit Hariram	74%	Successfully Completed

YEAR 2021-22**Extra Co-curricular activities**

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Jadhav Rohit Sanjay	Participation	Satara Hill Marathon	State	Satara Hill Marathon	13/2/2021
2	Sathe Yashvant Pandharinath	Participation	Satara Hill Marathon	State	Satara Hill Marathon	13/2/2021
3	Dhobale Ajay Hemant	Participation	Satara Hill Marathon	State	Satara Hill Marathon	13/2/2021
4	Chavan Vikram Bhagavan	Participation	Satara Hill Marathon	State	Satara Hill Marathon	13/2/2021
5	Lad Nikhil Bharat	Participation	Blood Doanation Camp	Institute	Varad Charitable and Medical Trust,Satara (Balaji Blood Bank, Satara)	22/2/2021
6	Shaikh Goushpak Allauddin	Participation	Blood Doanation Camp	Institute	Varad Charitable and Medical Trust,Satara (Balaji Blood Bank, Satara)	22/2/2021

YEAR 2019-20						
Co-curricular activities						
Sr. No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Sutar Omkar Sanjay	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
2	Sankpale Pooja Parshuram	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
3	Patil Vaishanavi Vittal	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
4	Patil Komal Ankush	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
5	Shinde Sonali Suresh	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
6	Daphale Sayali Dattatry	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
7	Katkar Swaranjali Shankar	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
8	Gurav Vaishanvi Laxman	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
9	Kodag Vikas Pandurang	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
10	Kumbhar Rohit Mohan	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
11	Desai Sunil Shivaji	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019

12	Dhokare Vikas Jaysing	Participation	Internal Avishkar 2019-20	Institute	Arvind Gavali College of Engineering, Satara	19-10-2019
1	Shinde Anupsinh Virsinh	Participation	IJSRET 2020	International	International Journal of Scientific Research and Engineering Trends	18/5/2020-23/05/2020
2	Nikam Abhijeet Subhash	Participation	IJSRET 2020	International	International Journal of Scientific Research and Engineering Trends	18/5/2020-23/05/2020
3	Aatar Tanveer Hiralal	Participation	IJSRET 2020	International	International Journal of Scientific Research and Engineering Trends	18/5/2020-23/05/2020
4	Shinde Abhishek v.	Participation	IJSRET 2020	International	International Journal of Scientific Research and Engineering Trends	18/5/2020-23/05/2020
5	Desai Aniruddha Ashok	Participation	National Level E-Conference on Science & Technology	National	S. B. Patil College of Engineering, Indapur	15/6/2020 to 16/06/2022
6	Jathar Ruturaj Krishnat	Participation	National Level E-Conference on Science & Technology	National	S. B. Patil College of Engineering, Indapur	15/6/2020 to 16/06/2022
7	Mohite Pratik Janardan	Participation	National Level E-Conference on Science & Technology	National	S. B. Patil College of Engineering, Indapur	15/6/2020 to 16/06/2022
8	Patil Raj Manik	Participation	National Level E-Conference on Science & Technology	National	S. B. Patil College of Engineering, Indapur	15/6/2020 to 16/06/2022

YEAR 2019-20**NPTEL Certification**

S.no	Roll Number	Course Id	Course Name	Name	Final Score	Certificate Type
1	NPTEL19CE36S11550107	Noc19-ce36	Geotechnical Engineering Laboratory	Sawant Sachin Suhas	53%	Successfully Completed
2	NPTEL19CE36S11550111	Noc19-ce36	Geotechnical Engineering Laboratory	Jadhav Rohit Sanjay	60%	Successfully Completed

YEAR 2019-20**Extra Co-curricular activities**

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Sakunde Neha Jitendra	Participation	Kho-Kho (Women)	State Level	Punyashlok Ahilyadevi Holkar Solapur University, Solapur	26/12/2019-30/12/2019
2	Katkar Swaranjali Shankar	Participation	Kho-Kho (Women)	State Level	Sawkar Pharmacy College, Satara	11/10/2019-13/10/2019
3	Sankpale Pooja Parshuram	Participation	Kho-Kho (Women)	State Level	Sawkar Pharmacy College, Satara	11/10/2019-13/10/2019
4	Gurav Vaishanvi Laxman	Participation	Kho-Kho (Women)	State Level	Sawkar Pharmacy College, Satara	11/10/2019-13/10/2019
5	Chavan Pallavi Dattatray	Participation	Kho-Kho (Women)	State Level	Sawkar Pharmacy College, Satara	11/10/2019-13/10/2019

YEAR 2019-20**Extra Co-curricular activities**

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Aattar Tanveer Hiralal	Participation	Satara Hill Marathon	State Level	Satara Hill Marathon	21/09/2019
2	Mane Sourabh Bajirao	Participation	Satara Hill Marathon	State Level	Satara Hill Marathon	21/09/2019
3	Shinde Anupsinh Virsinh	Participation	Satara Hill Marathon	State Level	Satara Hill Marathon	21/09/2019
4	Desai Aniruddha Ashok	Participation	Satara Hill Marathon	State Level	Satara Hill Marathon	21/09/2019
5	Chaitanya Shashikant Raut	Participation	Blood Donation Camp	Institute Level	Varad Charitable and Medical Trust, Satara (Balaji Blood Bank, Satara)	20/2/2020
6	Ajay Hemant Dhobale	Participation	Blood Donation Camp	Institute Level	Varad Charitable and Medical Trust, Satara (Balaji Blood Bank, Satara)	20/2/2020

CRITERION 05	Faculty Information and Contributions	200
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Academic Year: 2022 – 2023

Nature of Association (Regular/Contract)	Currently Associated (Y/N)	Date of Leaving (In case currently Faculty receiving PhD during the assessment years)	PhD Guidance	Research Paper Publications	Specialization	Department	Date of joining the Institution	Date on which designated as Professor/Associate Professor	Designation	Association with the Institution	Year of Attaining Highest Qualification	University	Degree (Highest Degree)	Name of the Faculty Member
Regular	Y	-	-	2	Structural Engg	Civil Engg	25/06/2010		ASST PROF	Y	1994	Shivaji University	ME	ABHAY VIDYAS AGAR GUJAR
Regular	Y	-	-	2	Structural Engg	Civil Engg	02/07/2012		ASST PROF	Y	2011	Shivaji University	ME	PRIYANKA HANMANTRAO JAGDALE
Regular	Y	-	-	4	Civil Construction Management	Civil Engg	19/12/2016		ASST PROF	Y	2013	Shivaji University	MTECH	RAJENDRA NANDKISHOR SAPKAL
Regular	Y	-	-	2	Construction Management	Civil Engg	22/07/2019		ASST PROF	Y	2019	Shivaji University	MTECH	DIKSHA SANJAY JADHAV
Regular	Y	-	-	0	Structural Engg	Civil Engg	22/08/2019		ASST PROF	Y	2019	Shivaji University	MTECH	SHARAD YU SHIVAJI RAO JEDHE
Regular	Y	-	-	0	Hydraulics Engg	Civil Engg	31/12/2019		PROFESSOR	Y	2014	Bharati Deemed University	PhD	VIJAY RAMCHANDRA THOMBARE
Regular	Y	-	-	0	Structural Engg	Civil Engg	17/03/2021		ASST PROF	Y	2018	VIT University	MTECH	SNEHAL SHIVAJI TODKAR

ASMITA RAMCH ANDRA MAHAJ AN	MTECH	Shivaji Universi ty	2019	Y	ASST PROF		02/08/202 1	Civil Engg	Constructi on Manageme nt	0	-	-	Y	Regular
PRASH ANT RAMES H BAMAN E	Ph.D	Shri Jagadish prasad Jhabarm al Tibrewa la Universi ty Jhunjhu nu	2014	Y	ASSOCI ATE PROF		01/9/2021	Civil Engg	Constructi on Manageme nt	5	-	-	Y	Regular
SANJAN A BHIMG ODA PATIL	MTECH	Shivaji Universi ty	2020	Y	ASST PROF		02/08/202 1	Civil Engg	Constructi on Manageme nt	0	-	-	Y	Regular
GOURA V SUNIL TAMBO LI	ME	SPPU	2018	Y	ASST PROF		01/09/202 1	Civil Engg	Structural Engg	0	-	-	Y	Regular
MOSIN SHEREK HUDA SHIKAL GAR	ME	Shivaji Universi ty	2020	Y	ASST PROF		12/11/202 1	Civil Engg	Constructi on Manageme nt	0	-	-	Y	Regular
SURAJ SHIVAJI SHINDE	ME	SPPU	2018	Y	ASST PROF		02/12/202 0	Civil Engg	Constructi on Manageme nt	2	-	-	Y	Regular
PALLA VI MACHC HHA	M.SC	SOLAP UR	2009		ASST PROFF		04/05/202 0	Civil Engg	Geology	-	-	-	Y	Regular

Academic Year: 2021 – 2022

Name of the Faculty Member	Degree (Highest Degree)	University	Year of Attaining Highest Qualification	Association with the Institution	Designation	Date on which designated as Professor/Associate Professor	Date of joining the Institution	Department	Specialization	Research Paper Publications	PhD Guidance	Faculty receiving PhD during the assessment years	Currently Associated (Y/N)	Nature of Association (Regular/Contract)
ABHAY VIDYASAGAR GUJAR	ME	Shivaji University	1994	Y	ASS T PROF		25/06/2010	-	Structural Engg	3	-	-	Y	Regular
PRIYANKA HANMANTRAO JAGDALE	ME	Shivaji University	2011	Y	ASS T PROF		02/07/2012	Civil Engg	Structural Engg	2	-	-	Y	Regular
RAJENDRA NANDKISHOR SAPKAL	MTECH	Shivaji University	2013	Y	ASS T PROF		19/12/2016	Civil Engg	Civil Construction Management	4	-	-	Y	Regular
DIKSHA SANJAY JADHAV	MTECH	Shivaji University	2019	Y	ASS T PROF		22/07/2019	Civil Engg	Construction Management	6	-	-	Y	Regular
SHARAYU SHIVAJIRAO JEDHE	MTECH	Shivaji University	2019	Y	ASS T PROF		22/08/2019	Civil Engg	Structural Engg	1	-	-	Y	Regular
VIJAY RAMCHANDRA THOMBARE	PhD	Bharati Deemed University	2014	Y	PROFESSOR		31/12/2019	Civil Engg	Hydraulic s Engg	5	-	-	Y	Regular
SNEHAL SHIVAJI TODKAR	MTECH	VIT University	2018	Y	ASS T PROF		17/03/2021	Civil Engg	Structural Engg	-	-	-	Y	Regular
ASMITA RAMCHANDRA MAHAJAN	MTECH	Shivaji University	2019	Y	ASS T PROF		02/08/2021	Civil Engg	Construction Management	2	-	-	N	Regular
PRASHANT RAMESH BAMANE	Ph.D	Shri Jagadishprasad Jhabarmal Tibrewala University Jhunjhunu	2014	Y	ASSOCIATE PROF		01/9/2021	Civil Engg	Construction Management	16	-	-	Y	Regular

SANJAN A BHIMGOUDA PATIL	MTECH	Shivaji University	2020	Y	ASS T PROF		02/08/2021	Civil Eng g	Constructi on Managem ent	2	-	-	N	Regula r
GOURAV SUNIL TAMBOLI	ME	SPPU	2018	Y	ASS T PROF		01/09/2021	Civil Eng g	Structural Engg	1	-	-	Y	Regula r
MOSIN SHEREK HUDA SHIKALGAR	ME	Shivaji University	2020	Y	ASS T PROF		12/11/2021	Civil Eng g	Constructi on Managem ent	2	-	-	Y	Regula r
SURAJ SHIVAJI SHINDE	ME	SPPU	2018	Y	ASS T PROF		02/12/2020	Civil Eng g	Constructi on Managem ent	2	-	-	Y	Regula r

Academic Year 2020– 2021:

Name of the Faculty Member	Degree (Highest Degree)	University	Year of Attaining Highest Qualification	Association with the Institution	Designation	Date on which designated as	Date of joining the Institution	Department	Specialization	Research Paper Publications	PhD Guidance	Faculty receiving PhD during the assessment	Currently Associated (Y/N)	Nature of Association (Regular/Contract)
ABHAY VIDYASAGAR GUJAR	ME	Shivaji University	1994	Y	ASST PROF		25/06/2010	Civil Eng g	Structural Engg	3	-	-	Y	Regular
PRIYANKA HANAMANTRA O JAGDALE	ME	Shivaji University	2011	Y	ASST PROF		02/07/2012	Civil Eng g	Structural Engg	2	-	-	Y	Regular
RAJENDRA NANDKISHOR SAPKAL	MTech	Shivaji University	2013	Y	ASST PROF		19/12/2016	Civil Eng g	Civil Constructi on Managem ent	4	-	-	Y	Regular
JYOTI RAKESH MOHITE	ME	SPPU	2018	Y	ASST PROF		02/07/2018	Civil Eng g	Structural Engg	2	-	-	N	Regular
NIKITA PRAKASH NANAWARE	MTech	SPPU	2018	Y	ASST PROF		01/04/2019	Civil Eng g	Constructi on Managem ent	-	-	-	N	Regular

AJAY BHIMRAO KOLEKAR	MTech	Shivaji University	2018	Y	ASST PROF		01/01/2019	Civil Engg	Constructi on Managem ent	1	-	-	N	Regular
PRIYANKA GANESH MHETRAS	ME	SPPU	2019	Y	ASST PROF		01/07/2019	Civil Engg	Structural Engg	1	-	-	N	Regular
DIKSHA SANJAY JADHAV	MTECH	Shivaji University	2019	Y	ASST PROF		22/07/2019	Civil Engg	Constructi on Managem ent	6	-	-	Y	Regular
SHARAYU SHIVAJIRAO JEDHE	MTECH	Shivaji University	2019	Y	ASST PROF		22/08/2019	Civil Engg	Structural Engg	1	-	-	Y	Regular
VIJAY RAMCHANDRA THOMBARE	PHD	Bharati Deemed University	2014	Y	PROFE SSOR		31/12/2019	Civil Engg	Hydraulic s Engg	5	-	-	Y	Regular
SURAJ SHIVAJI SHINDE	ME	SPPU	2018	Y	ASST PROF		02/12/2020	Civil Engg	Constructi on Managem ent	2	-	-	Y	Regular

5.1 Student – Faculty Ratio (SFR)**(20)**

(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 = u1No. of Students in UG 3rd Year = u2No. of Students in UG 4th Year = u3No. of Students in PG 1st Year = p1No. 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(22-23)	CAYm1(21-22)	CAYm2(20-21)
u1.1	23	65	63
u1.2	57	65	68
u1.3	58	67	86
UG1 = u1.1 + u1.2 + u1.3	138	197	217
Total no.of students in the department(S) = UG1 + UG2 + ... + UGn + PG1 + ... + PGn	138	197	217
No. of Faculty in the Department(F)	F1 = 14	F1 = 13	F2 = 11
Student Faculty Ratio(SFR)	SFR1=S1/F1 = 9.85	SFR2=S1/F1 = 15.15	SFR3=S2/F2 = 19.72
Average SFR			

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 (22-23)	14	0
CAYm1 (21-22)	13	0
CAYm2 (20-21)	11	0

5.2 Faculty Cadre Proportion**(20)**

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

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

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

F3: Number of Assistant Professors required = $6/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on the 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(22-23)	1.08	1	2.16	1	6.5	12
CAYm1 (21-22)	1.07	1	2.15	1	6.46	11
CAYm2(20-21)	1.11	1	2.22	0	6.66	10
Average Numbers	RF1=1.08	AF1=1	RF2=2.17	AF2=0.67	RF3=6.54	AF3=10.67

$$\begin{aligned} \text{Cadre Ratio Marks} &= \left[\left[\frac{AF1}{RF1} \right] + \left[\frac{AF2}{RF2} \times 0.6 \right] + \left[\frac{AF3}{RF3} \times 0.4 \right] \right] \times 12.5 \\ &= \left[\left[\frac{1}{1.08} \right] + \left[\frac{0.67}{2.17} \times 0.6 \right] + \left[\frac{10.67}{6.54} \times 0.4 \right] \right] \times 12.5 = 21.91 \end{aligned}$$

If AF1 = AF2 = 0 then zero marks

Maximum marks to be limited if it exceeds 25

Institute Marks: 21.91

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 = $(1+0.6+0.4) \times 12.5$
 $= 25$

Case 2: $AF1/RF1 = 1$; $AF2/RF2 = 3/2$; $AF3/RF3 = 5/6$; Cadre proportion marks =
 $(1+0.9+0.3) \times 12.5 = \text{limited to } 25$

Case 3: $AF1/RF1=0$; $AF2/RF2=1/2$; $AF3/RF3=8/6$; Cadre proportion marks = $(0+0.3+0.53)$
 $\times 12.5 = 10.4$

5.3 Faculty Qualification**(25)**

$FQ = 2.5 \times [(10X + 4Y)/F]$ 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	$FQ = 2.5 \times [(10X + 4Y)/F]$
CAY	2	12	9.75	17.43
CAYm 1	2	11	9.7	16.49
CAYm 2	1	10	10	12.5
Average Assessment				15.47

5.4 Faculty Retention**(25)****No. of regular faculty members in CAYm1=11****CAY=13**

Year	CAY m2 (2019 – 2020)	CAY m1 (2020-2021)	CAY (2021-2022)	CAY (2022-2023)
No. of Faculty Retained	7	10	7	13
No. of Faculty in the base year (2020 – 2021)	15	11	13	14
Faculty Retention (%)	46.66	90.90	53.84	92.85
Average	61.23 %			

Item (%offacultyretainedduringthepriodofassessme ntkeepingCAYm2asbaseyear)	Marks
>=90%ofrequiredFaculty membersretainedduringthep eriodofassessmentkeepingCAYm2asbaseyear)	25
>=75%ofrequiredFaculty membersretainedduringthep eriodofassessmentkeepingCAYm2asbaseyear)	20
>=60%ofrequiredFaculty membersretainedduringthep eriodofassessmentkeepingCAYm2asbaseyear)	15
>=50%ofrequiredFaculty membersretainedduringthep eriodofassessmentkeepingCAYm2asbaseyear)	10
<50%ofrequiredFaculty membersretainedduringthepe riodofassessmentkeepingCAYm2asbaseyear)	0

5.5 Innovations by the Faculty in Teaching and Learning

(20)

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.

The faculty members of the Civil 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

▪ 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 them 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.

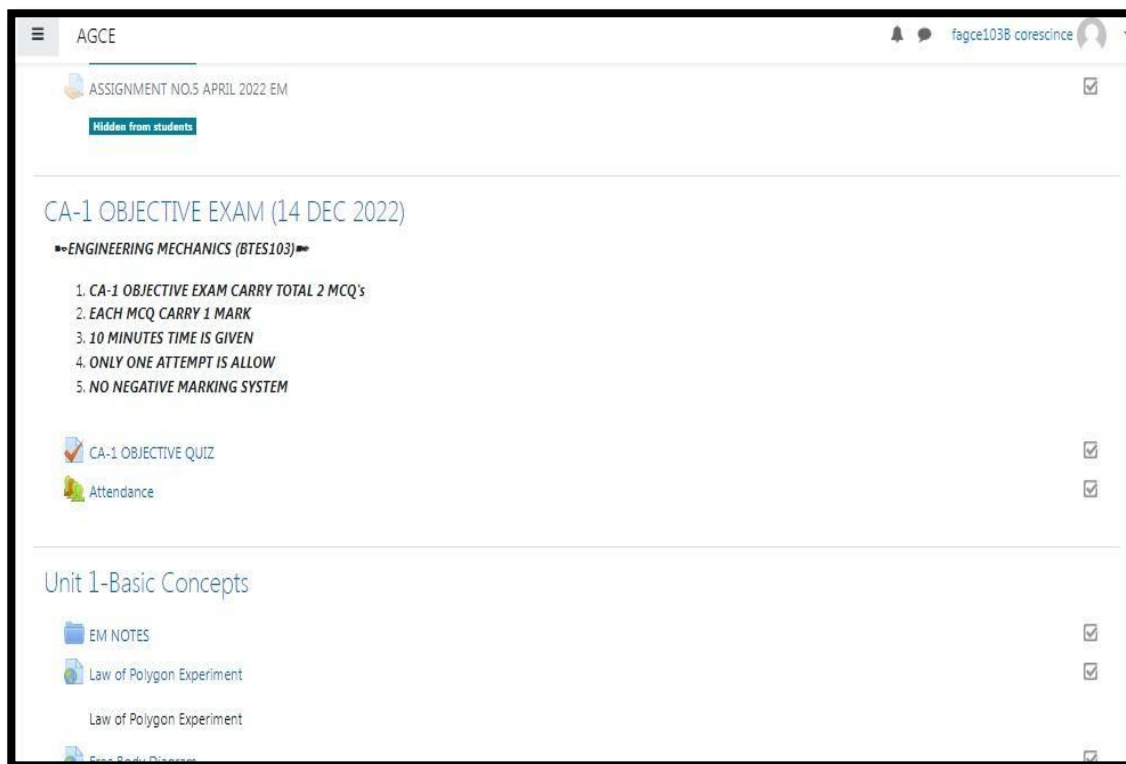


Fig.5.5.1.Screenshot of MOODLE page of Engineering Mechanics(F.Y. Btech)

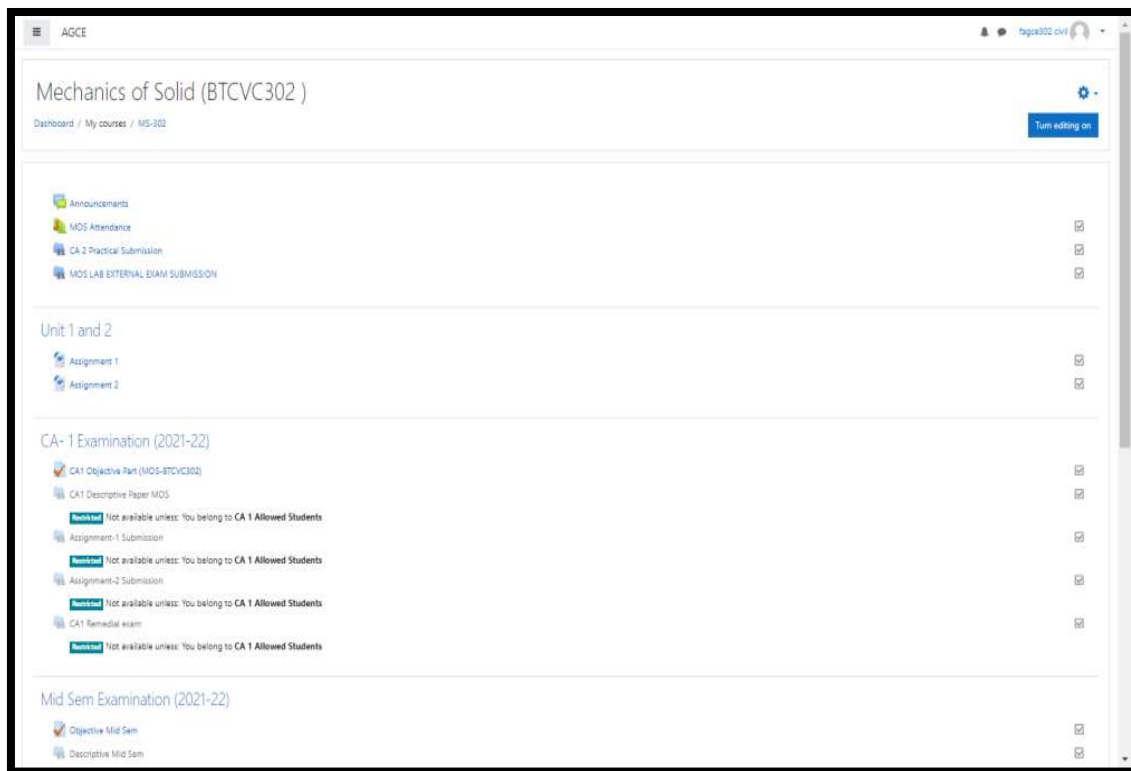


Fig.5.5. 2. Screenshot of MOODLE page of Mechanics of Solid (S.Y. Btech)

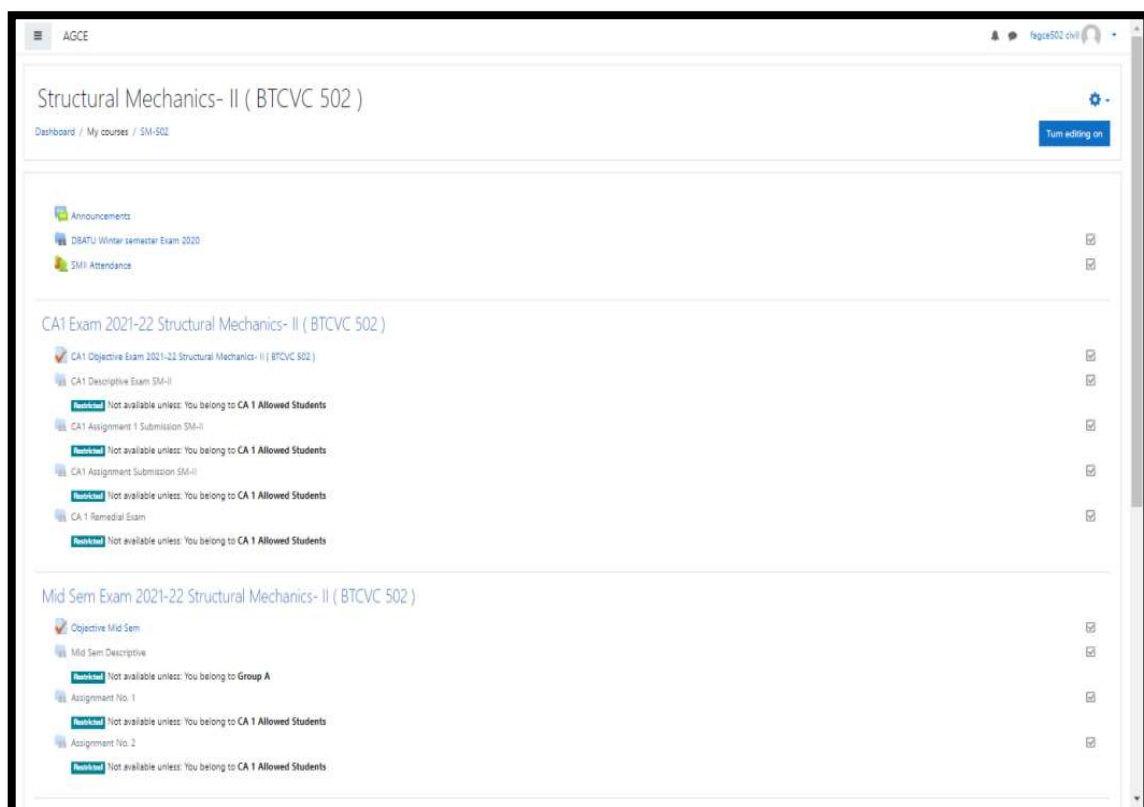


Fig.5.5. 3. Screenshot of MOODLE page of Structural Mechanics- II(T.Y. Btech)

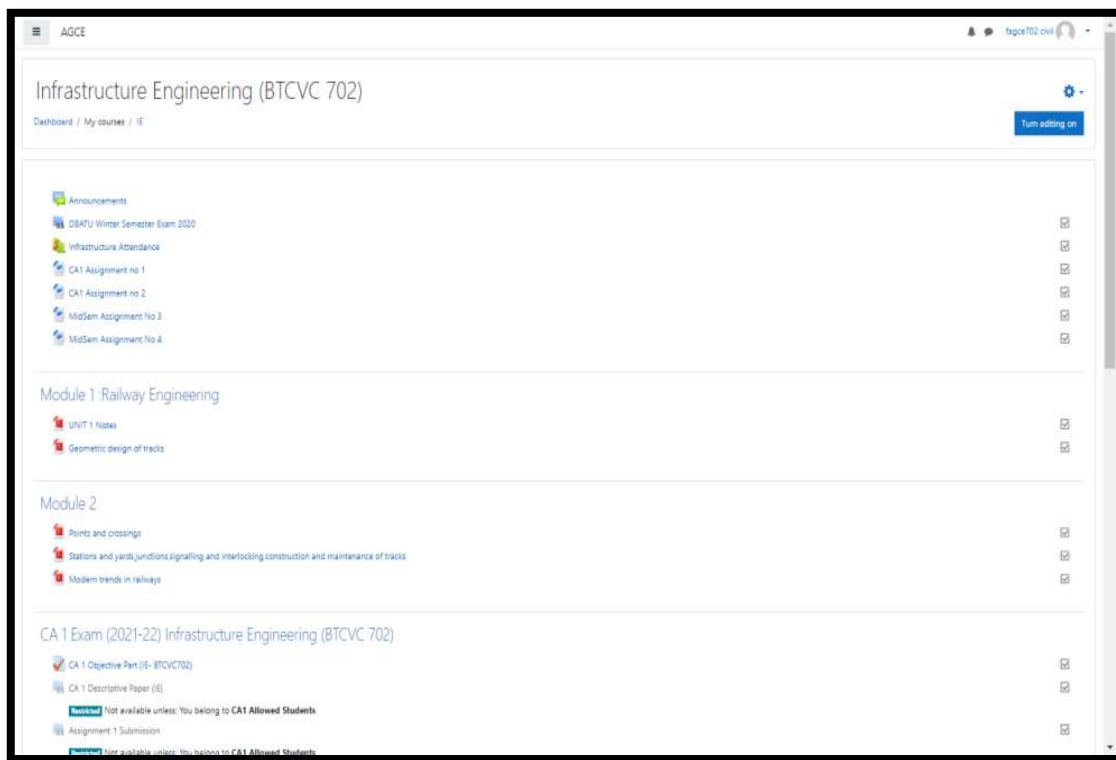


Fig.5.5. 4. Screenshot of MOODLE page of Infrastructure Engineering (Final year Btech)


- **Timetable:**

The institute academic calendar which is accordance with the 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 What Sapp groups.

The timetable for the weekly lectures and practicals 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.



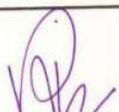
Samarth Educational Trust's Arvind Gavali College of Engineering, Satara Academic Calendar 2022-23 Term-I							
September-2022							
Week	SUN	MON	TUE	WED	THU	FRI	SAT
1					1	2	3
2	4	5	6	7	8	9	10
3	11	12	13	14	15	16	17
4	18	19	20	21	22	23	24
5	25	26	27	28	29	30	
Academic Days: 25							
October-2022							
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							
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							
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							
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							
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							

Figure 5.5.5. 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								1 Feb.	Commencement of Classes
Week	SUN	MON	TUE	WED	THU	FRI	SAT	1 Feb.-27 May	NPTEL/SWAYAM/Coursera Certification
1				1	2	3	4	6-11 Feb.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
2	5	6	7	8	9	10	11	12-18 Feb.	NSS Camp
3	12	13	14	15	16	17	18	12-18 Feb.	Cultural Days
4	19	20	21	22	23	24	25	19 Feb.	Celebration of Shivjayanti
5	26	27	28					20-25 Feb.	Faculty appreciation and Trust day celebration
								21 Feb.-3 Mar.	Remedial Examination
								25 Feb.	No Vehicle Day
								27 Feb.- 4 Mar.	CA1 Objective and Descriptive Examination
Academic Days: 24								Probable Holidays: 18 February Mahashivratri; 19 February: Cha. Shivaji Maharaj Jayanti	
March-2023								21 Feb.-3 Mar.	Remedial Examination
Week	SUN	MON	TUE	WED	THU	FRI	SAT	27 Feb.- 4 Mar.	CA1 Objective and Descriptive Examination
5				1	2	3	4	4 Mar.	Display of Attendance, List of defaulter students and Letter dispatching
6	5	6	7	8	9	10	11	6-11 Mar.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
7	12	13	14	15	16	17	18	11 Mar.	Alumni Meet
8	19	20	21	22	23	24	25	18 Mar.	No Vehicle Day
9	26	27	28	29	30	31		20-24 Mar.	Sports week
								25 Mar.	Annual Gathering
Academic Days: 25								Probable Holidays: 8 March:Dhulivandan, 22 March:Gudhi Padwa	
April-2023									
Week	SUN	MON	TUE	WED	THU	FRI	SAT	1 April	Display of Attendance, List of defaulter students and Letter dispatching
9							1	3-8 April	Mid Sem Exam
10	2	3	4	5	6	7	8	3-8 April	Guest Lecture/Industrial Visit/ Statutory Committee meeting
11	9	10	11	12	13	14	15	14 April	Celebration of Dr. Babasaheb Ambedkar Jayanti
12	16	17	18	19	20	21	22	12-15 April	Display of Mid Semester Marks to Students
13	23	24	25	26	27	28	29	15 April	Parents Meet
14	30							29 April	No Vehicle Day
Academic Days: 22								Probable Holidays: 7 April: Good Friday, 14 April: Dr. Babasaheb Ambedkar Jayanti, 22 April:Ramzan Eid	
May-2023								2-8 May	Exam form filling for Regular & Supplementary Examinations
Week	SUN	MON	TUE	WED	THU	FRI	SAT	6 May	Display of Attendance, List of defaulter students and Letter dispatching
14		1	2	3	4	5	6	8-13 May	Guest Lecture/Industrial Visit/ Statutory Committee meeting
15	7	8	9	10	11	12	13	9-13 May	Exam form filling for Regular & Supplementary Examinations with late fees
16	14	15	16	17	18	19	20	20 May	No Vehicle Day
17	21	22	23	24	25	26	27	22-27 May	CA2 Objective and Descriptive Examination
18	28	29	30	31				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
Academic Days: 25								Probable Holidays: 1 May: Maharashtra Day, 5 May: Buddha Pournima	
June-2023									
Week	SUN	MON	TUE	WED	THU	FRI	SAT	29 May- 3 June	University Practical/ Project/ Seminar Examinations
18					1	2	3	31 May- 6 June	Uploading Internal, Mid Semester, Practical, Project & Seminar marks to University portal
19	4	5	6	7	8	9	10	5-10 June	Guest Lecture/Industrial Visit/ Statutory Committee meeting
20	11	12	13	14	15	16	17	8-30 June	End Semester & Supplementary Examination
21	18	19	20	21	22	23	24	21 June	Yoga Day
22	25	26	27	28	29	30		24 June	No Vehicle Day
Academic Days: 26									

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 5.5.6. Academic Calendar for the Academic Year 2022 – 23 (Even Semester)

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-रायगड-४०२ १०३ (महाराष्ट्र) Yidyavihar, Lonere - Raigad 402 103 (Maharashtra)
 Tel : (02140) 275142 Student Helpline : 02140-275212

Bhagwan F. Jogi
Registrar

डॉ. भगवान फ. जोशी
कुलसचिव

Dated: 11 / 11 / 2022

ATU Reg/DSY/2022/277

Notification:

Subject: Academic Calendar Direct Second Year Semester-III (AY 2022-2023)
Academic Calendar Direct Second Year Semester-III (AY 2022-2023)

Sr. No.	Activity	Commencement Date	Concluding Date	Total Days	Level
1	Commencement of Classes	14 th November 2022	20 th February 2023	86	Direct Second Year
2	Mid Semester Examination	19 th January 2023	21 st January 2023	03	Direct Second Year
3	End of Classes	-	28 th February 2023	--	Direct Second Year
4	Practical Examination	21 st February 2023	22 nd February 2023	02	Direct Second Year
5	End Semester Examination	06 th March 2023	11 th March 2023	06	Direct Second Year
6	Result Declaration	-	17 th April 2023	--	Direct Second Year
7	Commencement of Classes for Next semester	13 th March 2023	-	-	Direct Second Year
Holidays	<ul style="list-style-type: none"> 25th Dec. 2022 Christmas 26th Jan. 2023 Republic Day 18th Feb. 2023 Mahashivratri 19th Feb. 2023 Chhatrapati Shivaji Maharaj Jayanti 	<ul style="list-style-type: none"> 07th Mar. 2023 Dhulivandan 22nd Mar. 2023 Gudi Padwa 30th Mar. 2023 Ram Navami 04th Apr. 2023 Mahavir Jayanti 	<ul style="list-style-type: none"> 07th Apr. 2023 Good Friday 14th Apr. 2023 Dr. Babasaheb Ambedkar Jayanti 01st May 2023 Maharashtra Din 07th May. 2023 Buddha Pournima 		

* For Direct Second Year students all Saturdays (excluding Government Holidays) shall be considered as a working days.
 * Regular SY & DSY Exams will be conducted at the same time from 6th – 11th March 2023.
 * SY Regular students will have to complete their internship requirement before exams.

Copy Submitted to: Hon'ble Vice-Chancellor
 Copy to:

1. All Heads of Departments
2. Affiliated Institutes
3. Academic Section
4. Controller of Examinations

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

5.5.7. University academic calendar (Academic Year 2022 – 2023)

Amarth Education Trust's
Arvind Gavali College of Engineering
At- Panmalewadi, Post-Varye, Satara
DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2022-23

TIME CLASS	TIME TABLE			
	09:30 - 10:30	10:30 - 11:30	11:30 - 12:30	12:30 - 01:10
SY (SW002)	SM-I (JSS)	SM-I (JSS)	HYD-II(SSS)	Lunch break
TY (SW103)	DRS(JAV)/(KRA)	FE(KRA)	IWT(CSS)	
B.Tech	PROJECT STAGE-II/ INTERNSHIP			
SY (SW002)	WRE(NVS)	ENV(CSS)	HYD-II(SSS)	
TY (SW103)	IC(DDC)	IC(DDC)	TRE(DSJ)	
B.Tech	PROJECT STAGE-II/ INTERNSHIP			
SY (SW002)	HYD-II(SSS)TUT	EG(KRA)	WRE(NVS)	
TY (SW103)	DRS(JAV)/(KRA)	IWT(CSS)	FE (KRA)	
B.Tech	PROJECT STAGE-II/ INTERNSHIP			
SY (SW002)	SM-I (JSS)TUT	ENV(CSS)	EG(KRA) TUT	
TY (SW103)	BHR(DCC)		IWT(CSS)	
B.Tech	PROJECT STAGE-II/ INTERNSHIP			
SY (SW002)	EG(KRA)	C2C (KA) (SW303)		
TY (SW103)	IWT(CSS)	DRS(JAV)/(KRA)	BHR(DCC)	
B.Tech	PROJECT STAGE-II/ INTERNSHIP			

TIME TABLE		(Even Sem)	
01:10 - 02:10	02:10 - 03:10	03:10 - 04:30	04:30 - 05:10
BPD PR(RNS)		TPD (RNS) (WW321)	
TRE(DSJ)	TRE(DSJ)	MINI PROJECT(NVS)	
PROJECT STAGE-II/ INTERNSHIP		PROJECT STAGE-II/ INTERNSHIP	
APTITUDE (KAD) (WW321)		HYD-II LAB-S1(SSS)	
FE (KRA)	FE (KRA)TUT	SPORTS (SSS)	
PROJECT STAGE-II/ INTERNSHIP		PROJECT STAGE-II/ INTERNSHIP	
STATUTORY COMMITTEE /NSS/CULTURAL	WRE(NVS)	SPORTS (SSS)	
DRS(JAV)/(KRA)	IWT(CSS)	MINI PROJECT (SSS)	DRS(JAV)/(KRA)
PROJECT STAGE-II/ INTERNSHIP		PROJECT STAGE-II/ INTERNSHIP	
BPD(RNS)	BPD(RNS)	NCC/NSS/CULTURAL	
TRE PR(SSS) T-1		SDD PR(KRA) T-1	
SDD PR (KRA) T-2		TRE PR(SSS) T-2	
PROJECT STAGE-II/ INTERNSHIP		PROJECT STAGE-II/ INTERNSHIP	
ENV LAB(CSS)		LIBRARY	
LIBRARY		DRS(JAV)/(KRA)	FE (KRA)
PROJECT STAGE-II/ INTERNSHIP		PROJECT STAGE-II/ INTERNSHIP	



AMC Member



Verified by






HOD
(Dr. Ramesh P.R.)



Principal
(Dr. Parashram Kulkarni)

5.5.8. Department Time table 2022-23

<p style="text-align: center;"> Arvind Education Trust's Arvind Gavit College of Engineering At: Panshodwad, Post: Vayur, Satara DEPARTMENT OF CIVIL ENGINEERING TIME TABLE </p>														
Academic Year: 2021-22														
DAY	TIME CLASS	10:00 - 11:00	11:00 - 12:00	12:00 - 12:45	12:45 - 01:45	01:45 - 02:45	02:45 - 03:00	03:00 - 04:00	04:00 - 05:00	05:00 - 05:30				
MONDAY	SY (NW202)	WRE(CET)	ENV(ARM)	Recess	CIC(AAK)(NW321)		Recess	HYD(EVET)(NW101)	CET(CET)(NW101)	GFM				
	TY (NW202)	FE(ARM)	BPD(MSS)		T1: BPD LAB (MSS)(101)			FM (101)	WWT (CET)					
	B.Tech	PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP						
TUESDAY	SY (NW202)	SM (101)		Recess	S1(T1) SM (101)(NW201)		Recess	ENV(ARM)	WRE(CET)	GFM				
	TY (NW202)	T1: CT LAB(ARM)(NW201)			S2(T1) SM (101)(NW201)			WWT (CET)(NW101)	FM (101)(NW101)					
	B.Tech	PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP						
WEDNESDAY	SY (NW202)	T1(T1) ENV (ARM)(NW201)	HYD II (VET)	Recess	S1: ENV LAB (NW201)		Recess	CET(101)	BPD(MSS)	GFM				
	TY (NW202)	T2(T1) ENV (CET)(NW201)			S2: Hyd II Lab (CET)(NW201)			FE(ARM)(NW101)	WWT (CET)(NW101)					
	B.Tech	PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP						
THURSDAY	SY (NW202)	BPD(MSS)	BPD(MSS)	Recess	APT(ANK)(NW321)		Recess	S1: Hyd II Lab (CET)(NW201)		GFM				
	TY (NW202)	T1(T1) FE(ARM)(NW201)	T1(T1) FM(CET)(NW201)		BPD (MSS)			S2: Hyd II Lab (CET)(NW201)						
	B.Tech	PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP						
FRIDAY	SY (NW202)	WRE(CET)	HYD II (VET)	Recess	S1: Hyd II Lab (CET)(NW201)		Recess	CET(ANK)		GFM				
	TY (NW202)	DCH (AVG/PWR)			CIC(AAK)(NW321)			LIBRARY(NSS)						
	B.Tech	PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP			PROJECT I/ INTERNSHIP						
WEEKLY OFF														
WEEKLY OFF														
* B.TECH Semesters will be conducted in Online mode through google meet platform as per timetable.														
<p style="text-align: center;">  ANS Member (Ms. A.R. Mahajan)  HOD (Dr. Y.A. Thakare)  Principal (Dr. Y.A. Thakare) </p>														

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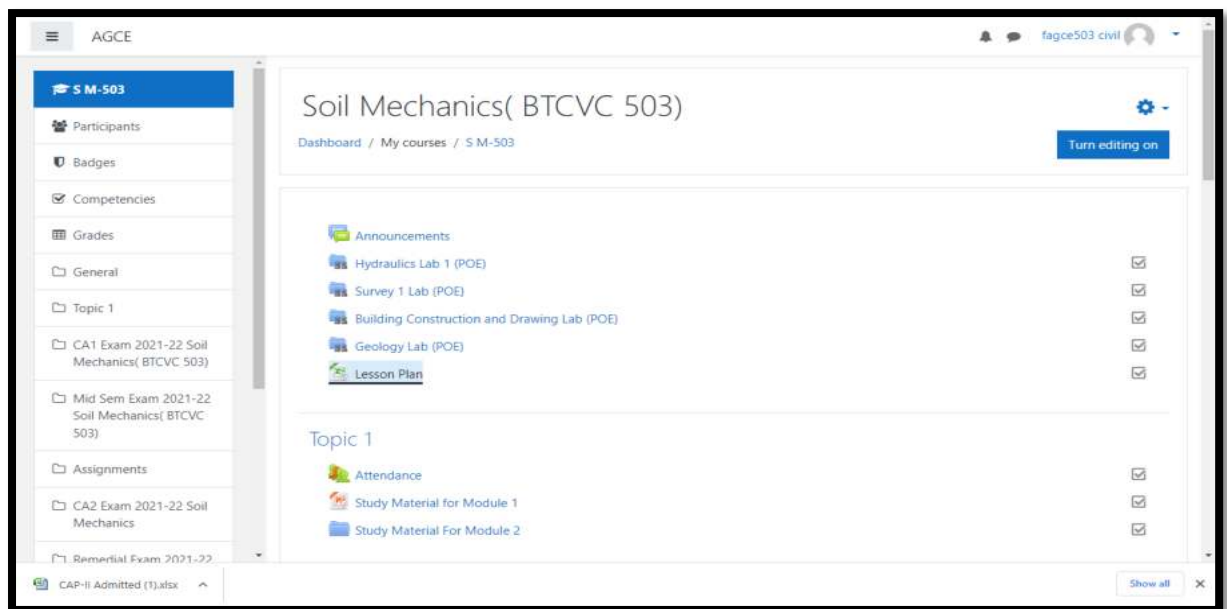
Scanned with CamScanner

5.5.9. Department Time table 2021-2022

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.

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



5.5. 10. Lesson plan uploaded on moodle

Arvind Gavali College of Engineering, Satara								
Teaching/Lesson Plan								
Branch: Civil Engg.			Class: BT			Academic Year: 2022-23 (Odd Sem)		
Subject: Surveying			Lectures/Week: 03 Hours			Faculty: Mr. Salunke R.N.		
Unit No.	Lecture No.	Planned Topics	Teaching Method	Teaching Aids	Planned date	Completion date	Faculty Sign	AMC/HOD Sign
1	1	Definition, principles of chain survey	L.	B	20/9/22	20/9/22	RS	[Signature]
	2	Classification, field work of chain survey	L.	B	21/9/22	21/9/22	RS	
	3	Scales, conventional sign of chain survey	L.	B	22/9/22	22/9/22	RS	
	4	Survey instruments, their care and adjustments	L.	B	23/9/22	23/9/22	RS	
	5	Ranging and Chaining	L.	B	26/9/22	26/9/22	RS	
	6	Reciprocal ranging, well-conditioned triangles	L.	B	27/9/22	27/9/22	RS	
	7	traversing plotting	L.	B	29/9/22	29/9/22	RS	
	8	Embarking & reducing figures	L.	B	30/9/22	30/9/22	RS	
2	9	Prismatic compass and surveyor's compass	L.	B	4/10/22	4/10/22	RS	[Signature]
	10	Local Attraction, Magnetic declination	L.	B	7/10/22	7/10/22	RS	
	11	Plane table instruments and accessories	L.	B	6/12/22	6/12/22	RS	
	12	meris and demeris, Radiation method	L.	B	7/12/22	7/12/22	RS	
3	13	Intersection, resection, traversing	L.	B	8/12/22	8/12/22	RS	[Signature]
	14	Level line Horizontal line-Levelling and Staves	L.	B	11/10/22	11/10/22	RS	
	15	Spirit level, Bench marks	L.	B	12/10/22	12/10/22	RS	
	16	Temporary & Permanent Adjustment of BM	L.	B	14/10/22	14/10/22	RS	
	17	Fly & Check levelling, Booking Reduction	L.	B	18/10/22	18/10/22	RS	
	18	Curvature and Refraction, Reciprocal levelling	L.	B	20/11/22	20/11/22	RS	
	19	Longitudinal and cross section - plotting	L.	B	10/11/22	10/11/22	RS	
	20	characteristics and uses of contours	L.	B	10/11/22	10/11/22	RS	
	21	plotting- Earth and volume	L.	B	11/11/22	11/11/22	RS	
	22	Planimeter- Types, Theory concept of zero circle	L.	B	14/11/22	14/11/22	RS	
	23	Study of Digital Planimeter	L.	B	15/11/22	15/11/22	RS	
	24	Computation of Area and Volume	L.	B	17/11/22	17/11/22	RS	
4	25	Introduction of theodolite	L.	B	24/11/22	24/11/22	RS	[Signature]
	26	importance, demand and supply,	L.	B	28/11/22	28/11/22	RS	
	27	Vernier and mirror optic	L.	B	28/11/22	28/11/22	RS	
	28	Temporary Adjustment of Theodolite	L.	B	29/11/22	29/11/22	RS	
	29	Permanent Adjustment of Theodolite	L.	B	29/11/22	29/11/22	RS	
	30	Permanent Adjustment of transit	L.	B	1/12/22	1/12/22	RS	
	31	Measurement of Horizontal Angles by using Theodolite	L.	B	1/12/22	1/12/22	RS	
	32	Measurement of Vertical Angle by using Theodolite	L.	B	2/12/22	2/12/22	RS	
	33	Measurement of Height and Distances	L.	B	2/12/22	2/12/22	RS	
	34	Traversing- Closing Error and Distribution	L.	B	5/12/22	5/12/22	RS	
5	35	Odley's Table- limited measurements	L.	B	6/12/22	6/12/22	RS	[Signature]
	36	Reconnaissance survey, Preliminary survey	L.	B	12/12/22	12/12/22	RS	
	37	Location survey for engineering survey	L.	B	13/12/22	13/12/22	RS	
	38	Setting out works	L.	B	13/12/22	13/12/22	RS	
	39	Route survey for Highway, Railways	L.	B	15/12/22	15/12/22	RS	
	40	Route survey for waterway- introduction of curve ranging	L.	B	15/12/22	15/12/22	RS	
	41	Mine surveying and Instruments Required	L.	B	19/12/22	19/12/22	RS	
	42	Tunnels - correlation of underground	L.	B	19/12/22	19/12/22	RS	
Barium			[Signature]					
TEACHING METHODS: 1.Lecture(L), 2. Cooperative Learning(C), 3. Group Discussion(D), 4. Q&A(Q), 5. Seminar(S), 6. Lab-Visit(V), 7. Industry Visit(I), 8. Case Study(CS)								

5.5. 11. Teaching/lesson plan 2022-23

ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA							
Teaching/Lesson Plan							
Branch: Civil Engineering		Class: SY (III rd Sem)		Academic Year: 2022-23 (EVEN Sem)			
Subject: Water Resource Engineering		Lecture/Week: 3 Hours		Faculty Name: Prof. Vikas Nikam			
Lecture No.	Planned Topics	Teaching Methods	Teaching Aids	Planned Date	Completion Date	Faculty Sign	AMC/HOD Sign
UNIT-I : Introduction							
1	Introduction, definition, scope, necessity, ill-effects of irrigation	L	MP	21-03-2023	21/3/23	NKR	
2	advantages, types of irrigation systems, methods of distribution of water	L	VF	23-03-2023	24/3/23	NKR	
3	Errors in Measurement, Types of Errors	L	B	28-03-2023	24/3/23	NKR	
4	Calibration, Standards and their classifications.	L	B	29-03-2023	24/3/23	NKR	
5	development of irrigation in India Water Requirement of Crops Water requirement of crops, base, delta and duty	L	B	31-03-2023	28/3/23	NKR	
6	methods of improving duty, types of soil, types of soil water	Q	B	31-03-2023	29/3/23	NKR	
7	soil moisture, consumptive use, irrigation frequency	L	MP	04-04-2023	4/4/23	NKR	
8	irrigation methods, crops season, crop pattern	L	VF	04-04-2023	11/4/23	NKR	
UNIT-II : Reservoirs							
9	Module 2: Reservoirs Planning of Reservoirs: Classification of Reservoir, Selection of site for Reservoir	L	B	05-04-2023	11/4/23	NKR	
10	Investigation works for Reservoir, Yield and Capacity of Reservoir	L	B	07-04-2023	18/4/23	NKR	
11	Mass Curve and Demand Curve, Storage Calculations	L	B	11-04-2023	18/4/23	NKR	
12	Control Levels, Useful Life of Reservoir	L	B	12-04-2023	19/4/23	NKR	
13	Siting of Reservoirs, Losses in Reservoirs	L	B	14-04-2023	25/4/23	NKR	

UNIT-III : Dams and Hydraulic structures							
14	Difference between weir, barrage and dam, Gravity Dams – Estimation of Loading	IV	B	18-04-2023	26/4/23	NKR	
15	Design Criteria, Causes of Failure of Gravity Dam, Precaution against Failure	L	B	19-04-2023	2/5/23	NKR	
16	Theoretical and Practical Profile, Stability Calculations	L	B	21-04-2023	3/5/23	NKR	
17	Galleries, Joints, and Earth Dams: Components and their Function	L	VF	25-04-2023	3/5/23	NKR	
18	Design Criterion, Inverted Filters, Downstream Drainage	L	B	26-04-2023	05/5/23	NKR	
19	Causes of Failure of Earthen Dam, Arch Dams – Types,	L	B	28-04-2023	7/5/23	NKR	
20	Forces on Arch Dam, Introduction and types of Spillway	L	B	02-05-2023	9/5/23	NKR	
21	Examples	L	B	03-05-2023	10/5/23	NKR	
UNIT-IV : Weirs and Canals							
22	Weirs on Permeable Foundations: Theories of Seepage	L	MP	05-05-2023	12/5/23	NKR	
23	Khosla's Theory, Piping and Undercutting Canals	L	B	09-05-2023	16/5/23	NKR	
24	Type, Alignment, Kennedy's and Lacey's Silt Theories	Q	B	10-05-2023	17/5/23	NKR	
25	Canal Losses, Typical Canal Sections,	L	B	12-05-2023	17/5/23	NKR	
26	Canal Lining: Necessity and Types	L	B	16-05-2023	19/5/23	NKR	
27	Canal Structures: Cross Drainage Works and Canal Regulatory Works	L	B	17-05-2023	23/5/23	NKR	
28	Examples	L	B	19-05-2023	25/5/23	NKR	
UNIT-V Hydrology							

29	Introduction to hydrology: hydrologic cycle, rain, surface and ground water	L	VF	23-05-2023	24/5/23	NVS	
30	measurement of rainfall, peak flow, base flow, precipitation and its measurement	L	B	24-05-2023	24/5/23	NVS	
31	average depth of precipitation, water losses	L	B	26-05-2023	26/5/23	NVS	
32	flood frequency, catchment area formulae, flood hydrograph	L	B	30-05-2023	30/5/23	NVS	
33	rainfall analysis, infiltration, run off, estimation of runoff	L	B	31-05-2023	31/5/23	NVS	
34	unit hydrograph and its determination, S-hydrograph	L	B	02-06-2023	2/6/23	NVS	
35	Examples	L	B	02-06-2023	6/6/23	NVS	
UNIT-VI Lift Irrigation							
36	Lift irrigation, wells and tube wells, introduction	L	B	06-06-2023	7/6/23	NVS	
37	classification of well, specific yield, deep and shallow wells	L	B	07-06-2023	9/6/23	NVS	
38	comparative advantage of well and canal irrigation, duty of well water	L	B	09-06-2023	9/6/23	NVS	
39	types of tube wells, types of strainers, boring methods	L	B	09-06-2023	13/6/23	NVS	
40	Darcy's law, permeability, safe yield of basin	L	B	13-06-2023	13/6/23	NVS	
41	Lift irrigation schemes: Various components and their design principles (Only concepts)	L	B	13-06-2023	14/6/23	NVS	
42	Water logging and drainage Causes of water logging, preventive and curative measures	L	MP	14-06-2023	16/6/23	NVS	
43	drainage of irrigation of lands, reclamation of water logged, alkaline and saline lands	L	B	16-06-2023	20/6/23	NVS	

44	Preventive and Curative Measures Water Conservation: Rain water Harvesting	L	B	21/6/23	20/6/23	NVS	
45	Ground Water Recharge, small scale techniques of surface water detention such as: Soil embankments, field ponds, concrete bandhara.	L	B	22/6/23	21/6/23	NVS	
PLAN TO TEACH TOPICS ADDITIONAL TO THE SYLLABUS							
Lecture No.	Planned Topics	Teaching Methods	Teaching Aids	Planned Date	Completion Date	Faculty Sign	AMC/HOD Sign
1	Different Types of Dam Structure video showing from the YouTube.	L	B	27/6/23	23/6/23	NVS	
2	Videos on Different Irrigation System	L	OHP	28/6/23	27/6/23	NVS	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>NVS Faculty</div> <div> AMC Member</div> <div> HOD</div> </div>							
TEACHING METHODS: 1. Lecture (L) 2. Cooperative Learning (C) 3. Group Discussion (GD) 4. Quiz (Q) 5. Seminar (S) 6. Lab Visit (LV) 7. Industrial Visit (IV) 8. Demo (D).							
TEACHING AIDS: 1. Video Films (VF) 2. Multimedia Presentation (MP) 3. Models (M) 4. Overhead Projectors (OHP)							

5.5. 12. Teaching/lesson plan 2022-23(Even sem)

In-house Internships:

In-house internships are 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 Yugam Course offered by civil department. The Guest lecturers organized by civil department during Yugam.

The department is organized by workshop on autocad to get knowledge of all command in drawing, this will helpful in future after graduation.



Figure 5.5. 13(a) and (b) Two Days Hands-on Workshop on Autocad software

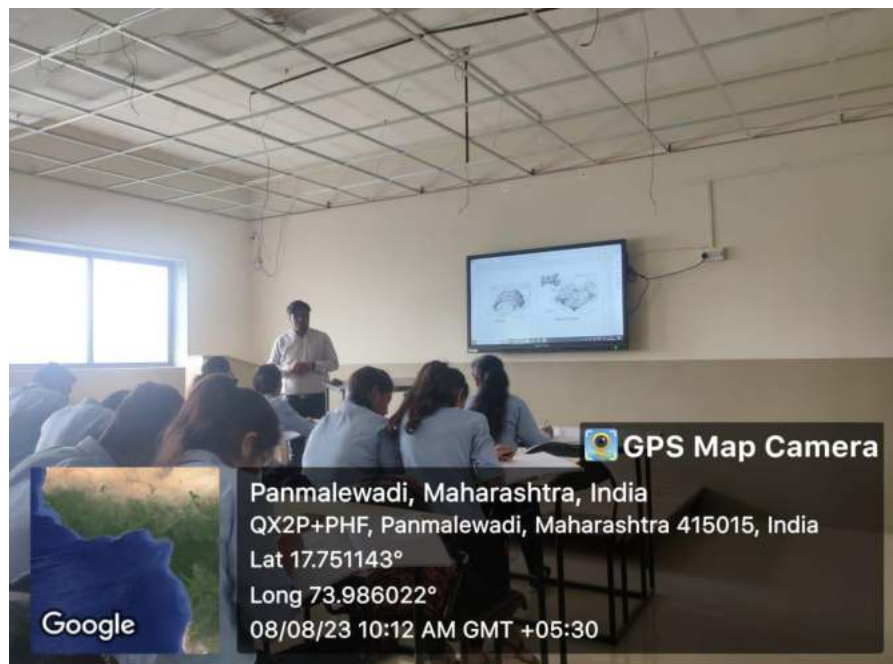
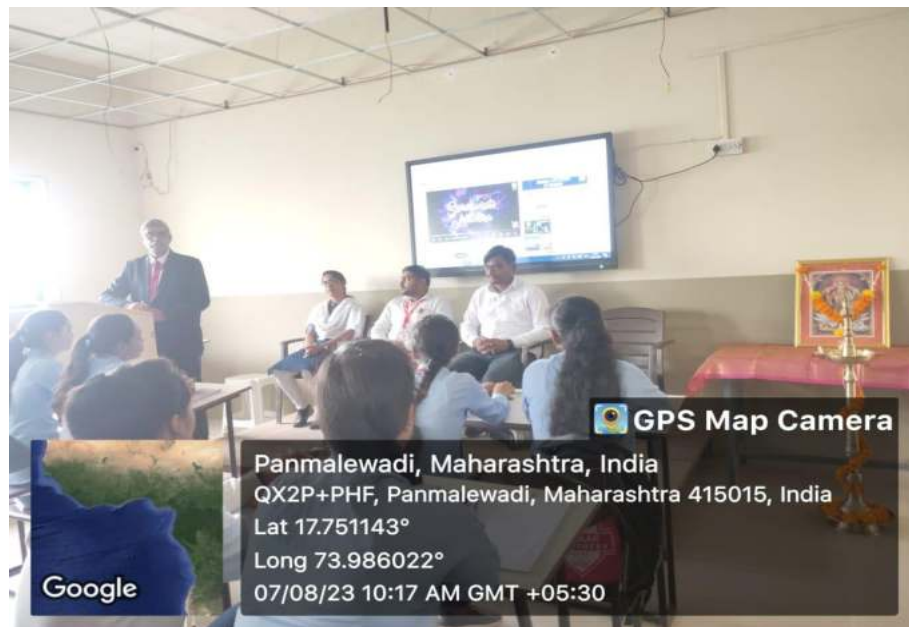


Figure 5.5. 13(c) and (d) Seven Days Hands-on Workshop Autocad sketchup of making building



Figure 5.5.14 Pamphlet of YUGAM 2020

Open Book Tests:

To improve the analytical skills of the students, open book tests are conducted during library hours by the individual faculty member. It allows analytical thinking and discourages rote learning.



Figure 5.5.15 Open Book Test

Interactive Panel :

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 5.5.16 Faculty Member of the Department Using Interactive Panel while Conducting the Lecture

Industrial Visits

Industrial visits are carried out to make students aware of current advances and requirements in the industry.



Fig.5.5.17. Industrial Visit to Krushnkunj Appartment, RMC plant (Kangralkar Associate)



Fig. 5.5. 18. Industrial Visit to Model Developers building



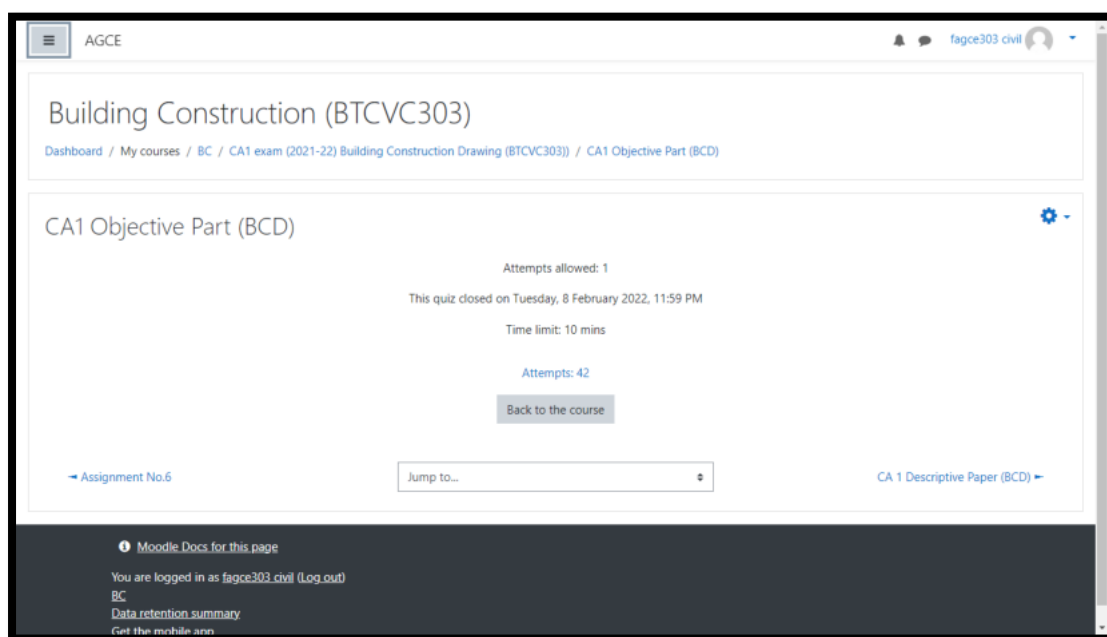
Fig. 5.5. 19. Industrial Visit to Chaitanya residence Satara.



5.5.20 . Industrial Visit to Water Treatment Plant in Pimpri Chinchwad

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.



5.5. 21. Screenshot of Quiz uploaded on Moodle of subject Building Construction

NPTEL Courses:

Students are encouraged to enroll 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 students are choosing the course as per our convenience.

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

Sr. No.	Timeline	Year	Courses Chosen by the Students
1	2022-23 Odd Semester	Final Year B.Tech (Civil)	1. Geotechnical Engineering Laboratory 2. Geotechnical Engineering-II 3. Housing Policy & Planning
	2022-23 Odd Semester	Final Year B.Tech (Civil)	1. Building Materials and Composites 2. Maintenance Repair & Concrete Structure 3. Soil Structure Interaction
2	2022-23 Even Semester	TY B.Tech (Civil)	1. An Introduction to Artificial Intelligence 2. Maintenance and Repair of Concrete Structures 3. Geographic Information Systems 4. Soil Structure Interaction 5. Introduction to Civil Engineering Profession 6. Environmental Impact Assessment 7. Applied Environmental Microbiology 8. Advanced Foundation Engineering 9. Artificial Intelligence: Knowledge Representation And Reasoning 10. Probability Methods in Civil Engineering
	2022-23 Even Semester	TY B.Tech (Civil)	1. Soft Skill Development 2. Development and Applications of Special Concretes 3. Advanced Computer Architecture

			4. Scheduling Techniques in Projects 5. Remote Sensing Essentials 6. Geosynthetics and Reinforced Soil Structures 7. Mechanical Characterization of Bituminous Materials
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Table 2. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (Civil) for 2021-22

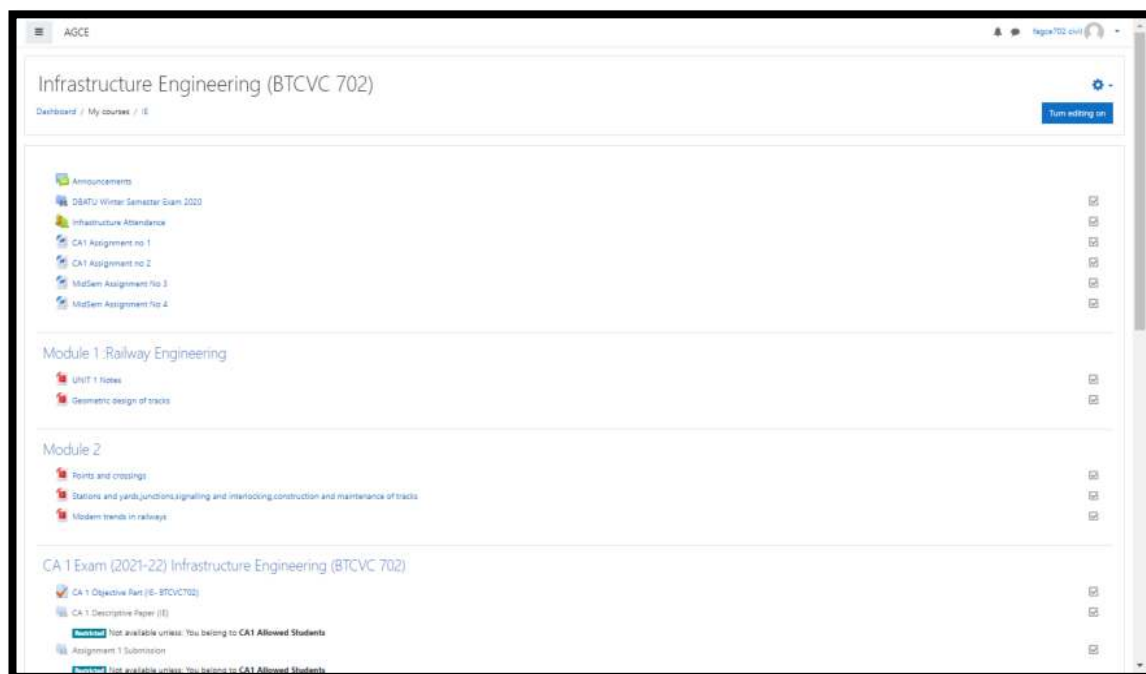
Sr. No.	Timeline	Year	Courses Chosen by the Students
1	2021-22 Odd Semester	Final Year B.Tech (Civil)	1. Basic construction materials 2. Maintenance and Repair of Concrete Structures 3. Mechanical Characterization of Bituminous Materials 4. Advanced Soil Mechanics 5. Advanced Foundation Engineering
	2021-22 Odd Semester	Final Year B.Tech (Civil)	1. Hydraulic Engineering 2. Geology and Soil Mechanics 3. Environmental Remediation of Contaminated Sites 4. Soil Structure Interaction 5. Enhancing Soft Skills and Personality
2	2021-22 Even Semester	TY B.Tech (Civil)	1. Soil Mechanics/Geotechnical Engineering I 2. Wastewater Treatment and Recycling 3. Foundation Engineering
	2021-22 Even Semester	TY B.Tech (Civil)	1. Design of Steel Structures 2. Design of Reinforced Concrete Structures 3. Fluid Mechanics



5.5. 22. Image of NPTEL online certification

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

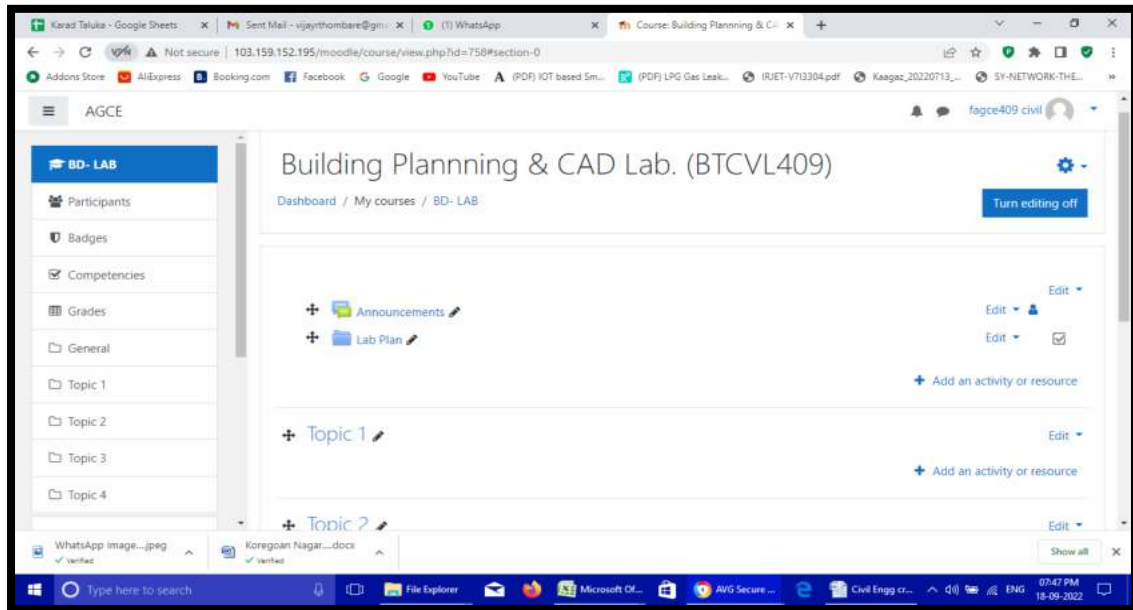
Reference books, notes, PowerPoint presentations, videos explaining concepts are uploaded by the faculty on MOODLE platform and made available to the enrolled students. Along with these, links to NPTEL course material are also provided on MOODLE.



5.5. 23. Screenshot of Notes/PPT's uploaded on Moodle of subject Infrastructure Engg.

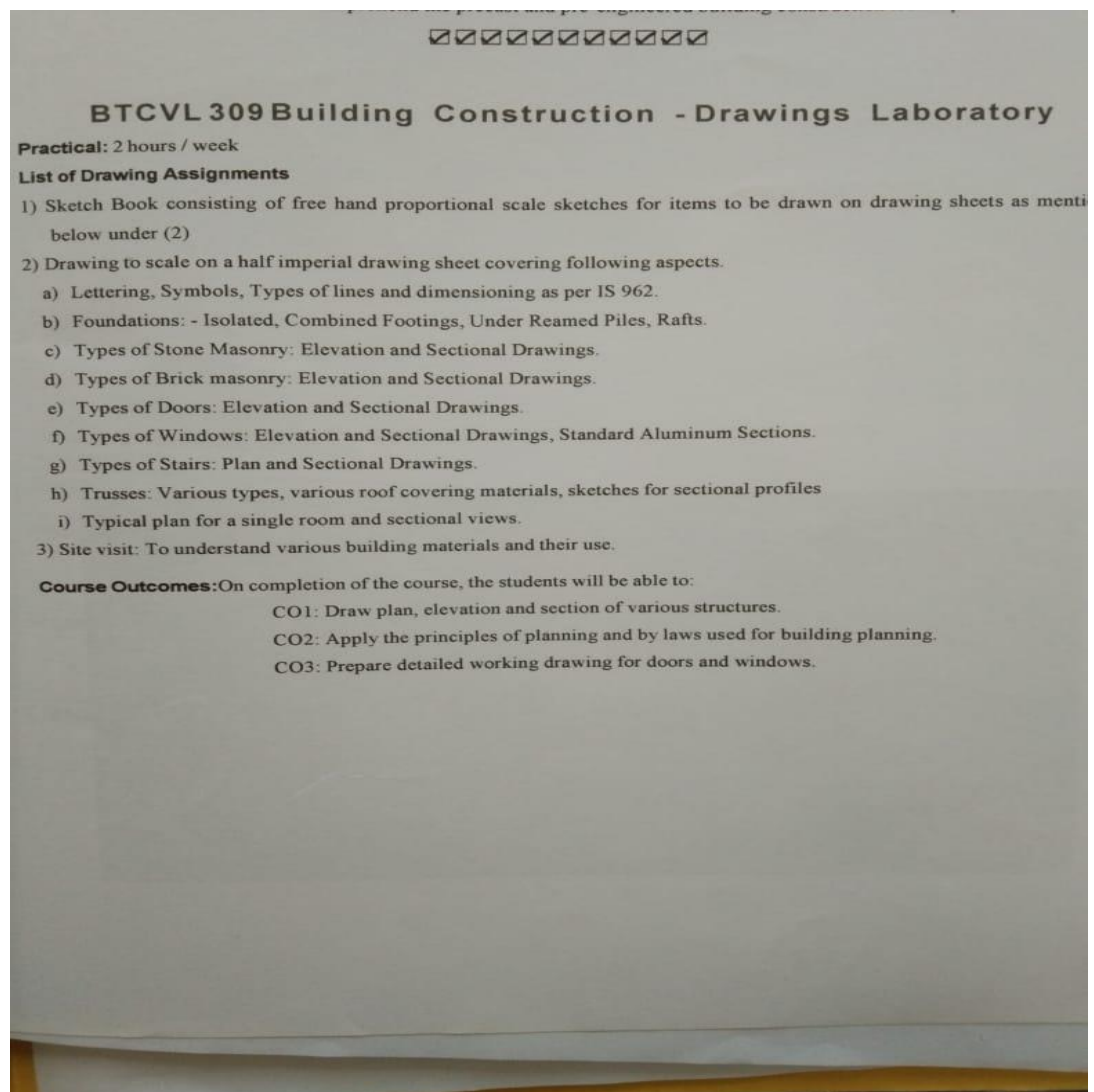
List of Experiments:

The list of experiments for the concerned subject as prescribed in the university syllabus is uploaded on the MOODLE platform by the concerned faculty member and made available to the enrolled students. The same list is also posted in student WhatsApp groups.



5.5. 24. Screenshot of list of experiments on MOODLE

List of experiments



5.5. 25. Image of list of experiments

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 counselling the students who have poor attendance, collecting feedback from the students for a difficult subject, etc.



Figure 5.5.26 Faculty conducting GFM Meeting with students(Btech Final year students)

AGCE

Dashboard / My courses / S M-503 / Topic 1 / Attendance / Report

Attendance for the course :: Soil Mechanics(BTCVC 503)

Sessions Add session Report Export Status set Temporary users

Page 1 of 3

All All past Months Weeks Days Below 100% Summary

First name / Surname	Email address	Sep 16 3PM All students	Sep 17 9AM All students	Sep 20 10:15AM All students	Sep 22 12:15PM All students	Sep 24 9AM All students	Sep 26 1:30PM All students	Sep 27 10:15AM All students	Sep 29 12:15PM All students	Oct 1 9AM All students
2065451191035 ADITYA SAWANTADITYA559@gmail.com	SAWANT	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)
2065451191017 AHIRE shridharahire01@gmail.com	SHRIDHAR MADAN	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)	P (2/2)	A (0/2)	A (0/2)	A (0/2)
1965451191033 BABAR aniketa103b@gmail.com	ANIKET ANIL	P (2/2)	P (2/2)	P (2/2)	P (2/2)	P (2/2)	A (0/2)	P (2/2)	P (2/2)	P (2/2)
2065451191051 Faislaibagalkot@gmail.com	Bagalkot Faisal	A (0/2)	A (0/2)	A (0/2)	A (0/2)	P (2/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)
2065451191014 sahilbagwan10@gmail.com	Bagwan Sahil Sameer	P (2/2)	A (0/2)	P (2/2)	P (2/2)	A (0/2)	A (0/2)	P (2/2)	P (2/2)	P (2/2)
2065451191026 Bandal aakashbandal96@gmail.com	Aakash Sanjay	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)	A (0/2)

a. 27. Moodle attendance

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 term work calculations.

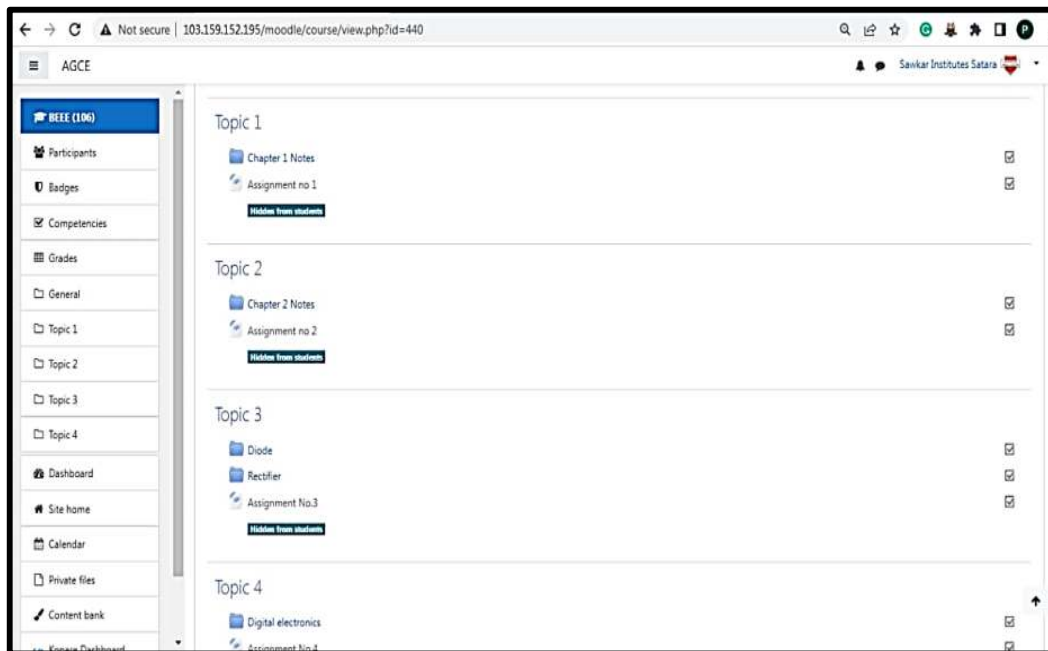


Figure 5.5.28 Screenshot of Assignment folders on Moodle

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
 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 : Tivani Pooja Class & Department : Civil - SY B-Tech
 Roll No. : 2053 Subject : WRE (Assignment)

Exp No.	Exp Name	Date of Conduction	Laboratory Assessment				Faculty Sign with Date											
			Timely submission (02)	Neatness (04)	Understanding (04)	Total (10)												
1)	Assignment No-1	17/5/22	2	3	3	8	<i>[Signature]</i>											
2)	Assignment No-2	18/5/22	2	3	3	8	<i>[Signature]</i>											
3)	Assignment No-3	26/5/22	2	3	4	9	<i>[Signature]</i>											
CA1			Average marks of laboratory experiment (10)															
4)	Assignment No-4	9/5/22	2	3	3	8	<i>[Signature]</i>											
5)	Assignment No-5	1/6/22	2	3	3	8	<i>[Signature]</i>											
6)	Assignment No-6	2/6/22	2	3	4	9	<i>[Signature]</i>											
CA2			Average marks of laboratory experiment (10)															
					<table border="1"> <thead> <tr> <th>Laboratory Assessment (10)</th> <th>Attendance (05)</th> <th>Practical Exam (10)</th> <th>Mock Oral (05)</th> <th>Total (30)</th> </tr> </thead> <tbody> <tr> <td>CA1</td> <td>8</td> <td>4</td> <td>9</td> <td>4</td> <td>25</td> </tr> </tbody> </table>			Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)	CA1	8	4	9	4	25
Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)														
CA1	8	4	9	4	25													
					<table border="1"> <thead> <tr> <th>Laboratory Assessment (10)</th> <th>Attendance (05)</th> <th>Practical Exam (10)</th> <th>Mock Oral (05)</th> <th>Total (30)</th> </tr> </thead> <tbody> <tr> <td>CA2</td> <td>8</td> <td>3</td> <td>9</td> <td>4</td> <td>24</td> </tr> </tbody> </table>			Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)	CA2	8	3	9	4	24
Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)														
CA2	8	3	9	4	24													

Student Sign. *[Signature]* Faculty Sign. *[Signature]*

Figure 5.5.29 Photograph of CAS Sheet for WRE assignment

Project-based and Self-learning:

Students are encouraged to group in various domains such as Structure, Environmental Engineering, Construction Management, etc. and work in the development of projects in that domain. Emphasis is given on industry-based projects, innovative ideas, and research-paper based projects.

The lists of the Final Year Projects B.Tech (Civil) for the assessment years, 2022-23, 2021-22, 2020-21 are as given below:

Arvind Gavali College of Engineering, Satara Btech Final Year Department of Civil Engineering Year-2022-23						
Sr. No.	PRN No.	Name of the Project Group Members	Contact number	Title of the Project	Domain	Name of Guide & Co-Guide
1	2065451191025	KATKAR SUCHITA BHAIASAHEB	9172367783.00	Seismic performance of multi-storey building with response spectrum method	Structure	Prern Jagtap Dr.P.R.Bansane
2	2065451191036	KALE MANOJ KISAN	9172367783.00			
3	2165451191001	MULANI SAMEENA SAYYAD	9420775966.00			
4	2065451191057	CHIKANE KIRAN SITARAM	9702996601.00			
5	2065451191029	SALUNKHE ANIKET BHASKAR	7057430234.00	Rain Water Harvesting	Environmental Engineering	Ketan Parmar Prof. Katkar R.A
6	2065451191035	ADITYA SAWANT	7758811100.00			
7	2065451191032	KETAN PARMAR	9156915658.00			
8	2065451191019	JAGTAP PRAVIN MOHAN	7385277806.00	Design of Modular Multistoried Steel Frame Building	Structure	Yogesh Fosal Prof. Sapkal Rajendra
9	2065451191027	KAMBLE VIKRANT TANAJI	8010240566.00			
10	2065451191044	GHORPADE PRAJWAL RAMCHANDRA	7276771821.00			
11	2065451191022	LOHAR KUNAL PRATAP	7378896007.00			
12	2065451191013	SHINDE SNEHAL ANAND	8625918119.00	Analysis and Design of sustainable water supply for rural water distribution network	Environment Engineering	Shardul saudagar Prof. Shinde S.S
13	2065451191054	YADAV NIKHIL VILAS	7283098605.00			
14	2065451191034	HUBALE KUMAR DILIP	7559335983.00			
15	2065451191021	DHAKAL NIRMALA KHADAKBAH	7219710156.00			
16	2065451191009	SHIBE SNEHA TANAJI	7219089531.00	Comparative Study of Multi-storied Building by using Analysis Software	Structure	Ganesh Deshpande Dr.P.R.Bansane
17	2065451191045	SALUNKHE SIDDHESHVAR VILAS	7716838323.00			
18	2065451191047	RUTUJA NARENDRA GUBAL	9921984145.00			
19	2065451191039	SAVANT GURUDATT JAYPRAKASH	9156891931.00			
20	1965451191008	PATIL JAYDIP JAYWANT	9975197850.00	Design of Paving Tiles using industrial waste carbon	Construction Management	Akshay Jadhav 9673735858 Prof. Katkar R.A
21	2065451191001	JADHAV PARTH CHANDRAKANT	8999330538.00			
22	2065451191012	MOHRE SAISH SANDEEP	70830225903.00			
23	2065451191023	JADHAV RAJAT SHIVAJI	7020845713.00			

24	2065451191015	MOMIN TALHA SHAHANWAJ	7057977666.00	Design and Estimate of Sewage Treatment Plant	Environment Engineering	Prashant Swant 9823702179 Prof. Sapkal Rajendra
25	2065451191024	PATHAN SHAJIMA ASLAM	8087982245.00			
26	2065451191046	MOHITE ANKITA ASHOK	7218975740.00			
27	1965451191033	BABAR ANIKET ANIL	9579896005.00	Experimental analysis on Green Concrete	Construction Management	Allanadin shaikh Prof. Shinde S. S.
28	1965451191034	GAIKWAD SUSHANT PARASHRA	8208578854.00			
29	1965451191030	SHAIKH GULSPAK ALLAUDDIN	8766929230.00			
30	2065451191048	RAUT ROHAN BAPURAO	9765127791.00	Water quality analysis and modelling for lower Koyana river	Environmental Engineering	Nandhad Shikalgir Prof. Sapkal Rajendra
31	2065451191028	CHOUDHARI OMKAR SARJERAO	9130122803.00			
32	2065451191011	SHELAR SAGAR MAHADEV	7063608587.00			
33	2065451191050	DEOKAR KIRAN ARUN	9970519921.00			
34	1965451191037	PRASHANT DHANAJI PATIL	9545709472.00	Marine pollution and its removal	Environmental Engineering	Eknath Dandhale Prof. Bendsure Shradha
35	1965451191035	JAGADALE SUSHANT BHARAT	7387530332.00			
36	1965451191032	KHARE OMKAR DILIP	9307604004.00			
37	2065451191008	ROMAN ANIKET RAMESH	7039861800.00			
38	2065451191058	KALBHOR AKSHAY ARUN	9975717401.00	Advanced Materials and Techniques used in construction	Construction Management	Vijay Matar Prof. Bendsure Shradha
39	2065451191056	PATIL PRATIK SATISH	7776012104.00			
40	2065451191059	PATIL SHUBHAM SANJAY	8425919906.00			
41	2065451191016	KADAM VISHWANATH RAJENDRA	9594160818.00			
42	1965451191012	PUJARI VISHAL VITTHAL	7843042628.00	Design of OPFD house and structure	Structure	Swaroop Jagdale 9823737417 Prof. Bendsure Shradha
43	1965451191020	LOKHANDE SHUBHAM BHIMRAO	7887336491.00			
44	2065451191010	LINGALE JEEVAN SHAHAJI	7756045175.00			
45	519545201811911004	PATIL ADESH DILIP	9730326390.00			
46	1965451191036	SAKUNDE NEHA JITENDRA	9322846508.00	Retrofitting of a RC structure	Structure	Mr. Shailesh jadhav Dr.P.R.Bansane
47	2065451191049	PATANKAR PRIYANKA DILIP	9284955681.00			
48	1965451191017	SHIRKE SANI RAJESH	9880088912.00			
49	2065451191055	PATIL SHUBHAM SHIVAJI	9890570556.00	A Use of glass and granite as an aggregate in concrete block for sustainable construction	Construction Management	vijaykant tandare Dr.P.R.Bansane
50	2065451191031	CHIKANE SHUBHAM SURESH	7263098605.00			

Samarth Educational Trust Arvind Gavali College of Engineering, Satara Project Report Submission Status Btech Final Year Department of Civil Engineering					
Sr. No.	Name of the Project Group Members	Title of the Project	Domain	Name of the Guide	Internship
10	Ravi Samrat	Manufacturing of Bricks by using foundry waste sand & its comparison with burnt clay brick	Environment	Prof. Jadhav Diksha	
	Madhav Shyam				
	Chavan Mahesh				
	Malavi Samparna				
11	Musale Harishada	Utilisation of Tier rubber CRUMB for water Proofing	Environment	Dr. Thombare V.R.	Yezar Geomatics pri.ltd,Pune
	Bhandare Akshay				Yezar Geomatics pri.ltd,Pune
	Patil Tejaswini				
12	Smrita Swami	Building Information Modelling	Structure	Prof. Jadhav Diksha	VNS Developers & Builders, Satara
	Bhagyashree Chavan				
	Shravanjan Khat				
	Adhik Jadhav				
13	Abhishek Sanjay	Effect of RERA on construction and GST on Construction	Construction Management	Prof. Shinde S.S.	
	Vikram Nalawade				
	Thorat Praywal				
	Abhijeet Dhanak (Shivaji to DBATU)				
14	Ajit Mane	Castilled Beam	Structure	Prof. Shinde S.S.	MAB Construction & Associates,Satara
	Neeraj Randive				MAB Construction & Associates,Satara
	Mahesh Gaidwad				MAB Construction & Associates,Satara
15	Ajdukya Desai	Road Power Generation by Mechanical mechanism	Transportation	Dr. Thombare V.R.	Mahendra Construction, Satara
	Ashwaj Jadhav				Mahendra Construction, Satara
16	Ramchandra Patil	Sewage Treatment Plant	Environment	Dr. Thombare V.R.	Aditya Construction, Solapur
	Ashutosh Patole				
	Suraj Kadam				
	Shubham Khalatkar				
17	Anurag Karadape	Movable Divider for Traffic Management	Transportation	Dr. Thombare V.R.	
	Siddhant Nalawade				
	Prashant Gavane				
	Pruthviraj Kale				
18	Vishvajit Pawar	Performance Evaluation of Conventional Brick With Sludge Brick	Construction Management	Prof. Shinde S.S.	
	Suryawanshi Vinayak				
	Krushna Pawar				
19	Chinchkar Manish	Eco-Bricks	Construction Management	Dr. Thombare V.R.	Nirmite Priorities, Satara
	Bhajanee Goutav				Nirmite Priorities, Satara
	Jadhav Mayur				Nirmite Priorities, Satara
	Kadam Nirvanjan				Nirmite Priorities, Satara

Figure 5.5.31(a,b,c) Final Year Project List for the Academic Year 2021-2022

Samarth Educational Trust Anand Gavali College of Engineering, Satara Civil Engineering Project Group Details AY 2020-2021					
Last Year Batch			Topic	Domain	Project Guide
Sr. No.	Name of Student	Contact No.			
1	Jadhav Nitin Ashok	8350069841	A case study of Kolimba river analysis	Hydraulics	Dr. Thombare V.R.
	Pharose Ashay Krishnat	8180986511			
	Madine Shantaram	9821195418			
	Randive Anil Sarjekar	9004849388			
	Kadam Aniket Tatyasa	7700445387			
2	Patil Vashantaji Vitai	9325105268	Structural audit of existing building	Structural Analysis and Design	Prof. Gujar A.V.
	Sankale Pooja Parashuram	7030902091			
	Parale Aboli Vilas	9119583173			
	Satunhe Supriya Sunag	7350181484			
	Jadhav Trupti Vijay	9889368158			
3	Patil Suchitra Vilas	9823766813	Planning and Distribution of Pipe Distribution Network	Environmental Engg.	Dr. Thombare V.R.
	Khandole Nikita Madhukar	7385562629			
	Kulkar Saurabh Shantkar	8793299430			
	Jadhav Saurabh Sunag	9788782110			
	Pyari Sachin Vitai	7028418244			
4	Phalke Shubham Vijay	9850494479	Experimental study on effect of glass fibre in glass powder cement concrete	Structural Analysis and Design	Prof. Gujar A.V.
	Bhosale Aniket Dadas	7387595359			
	Pawar Mayur Rajendra	7709064849			
	Mane Omkar Suryakant	7387107363			
	Chavan Jay Laxman	9552159499			
5	Mahale Bhushan Raghunath	7887796230	Retrofitting of R detailed beam column connection	Structural Analysis and Design	Prof. Gujar A.V.
	Gurav Vitai Eknath	8328417014			
	Jangam Sakal Abhijad	7068259199			
	Sethi Vashant Parashuram	7040785986			
	Chavan Mahesh Shankar	8600322928			
6	Lokare Pradyumn Ranam	7507359153	Utilization of plastic in manufacturing of paver block	Construction Management	Prof. Sapkal R.N.
	omkar kumbale	7218823872			
	Pawar Rushikesh Chandrakant	7350688548			
	Prasad Pharande	9762239573			
	Jamdade Ranjit Dhanaji	8830230199			
7	Vaidhav sapkal	9112912077	Ferro Cement Construction	Construction Management	Prof. Sapkal R.N.
	Kalyanshetti Shashil	8855940359			
	Kulkarni Aniket Subhash	9503887278			
	Mone Abhinav Mukund	9595225410			
	Gurav Pravin Sunag	7770060369			
8	Shinde Akshay Anurag	9158556503	Concrete blocks using waste material	Irrigation	Ms. Todkar S.S.
	Yadav Ashay Bhimrao	9604288604			
	Deshmukh Aniket Balrao	8483885598			
	Kadam Ketan Uday	8625829248			
	Awate Prateek Prashant	7028661444			
10	Ghadage Gurjan Santosh	7709250913	Experimental investigation of modified bitumen with plastic	Construction Management	Prof. Sapkal R.N.
	Jadhav Saket Shashikant	7058777007			
	Raut Chaitanya Shashikant	9561207820			
	Mane Swapnil Anil	9657970402			
	Mone Kalyani Sunil	9649804988			
11	Sutar Raji Harman	7219175446	Effect of granite and marble waste to enhance the properties of silty soil	Hydraulics	Dr. Thombare V.R.
	Shinde Prateek Pradyumn	9146488328			
	Sutar Omkar Sanjay	8237236337			
	Chavan Vikram Bhagavan	7218893084			
	Jadhav Rohit Sanjay	7757986961			
12	Chavan Pragati Sanjay	8806342171	Analysis and design of G+15 Building	Construction Management	Prof. Sapkal R.N.
	Jagtap Prayog Ramchandra	7776806464			
	Ghadage Satish Shivaji	9011198396			
	Tarde Vaidhav Abasa	9112614213			
	Kathole Sunarna Pandurang	7420019448			
13	Daphale Sayali Dattatray	7410587580	Reuse and recycle of construction and demolition of waste	Hydraulics	Dr. Thombare V.R.
	Kumbhar Rishi Manoj	8848015539			
	Chavan Prateek Dattatray	7083079474			
	Gurav Vashant Laxman	7057893039			
	Jadhav Kalyani Sunil	9119436157			
14	Desai Sunil Shiva	9370868285	Study of watershed management	Irrigation	Ms. Todkar S.S.
	Kodak Vikas Pandurang	9049420342			
	Sawant Sachin Subas	9675264951			
	Patil Abhijit Bhikaji	7261960641			
	Dhokare Vikas Jayyaji	9623690676			
15	Garkwad Vikram Laxman	8308270730	Palm Island Dubai	Hydraulics	Dr. Thombare V.R.
	Jadhav Parag Jadhav	8500918753			
	Trimbake Akshay Kishor	8329783845			
	Bhaidar Soab Dattaj	8888333641			
	Mali Aditya Kishor	9970779795			
16	Shinde Sunil Sunag	7558859953	Light gauge steel structure	Hydraulics	Dr. Thombare V.R.
	Vasat Rafat Sopan	7558859953			
	Lohar Rishi Namdeo	9130206374			
	Jagtap Nandkumar Narayan	7558555813			
	Kadam Arjun Sunag	9404357526			
17	Dhokate Ajay Hemant	8796376780	Rainwater harvesting	Hydraulics	Dr. Thombare V.R.
	Bichukale Suraj Nanasa	9294733612			
	Bansode Santosh Rajkumar	7559263677			
	Gulmankar Mayur Balu	7028777480			
	Mali Eknath Sadashiv	9130406938			
18	Mulla Adar Ashok	8530041656	Strengthening of beam and column by carbon fiber reinforced polymer	Construction Management	Prof. Sapkal R.N.
	Paramane Abhimanyu Vilas	8978207171			
	Aravale Mayur Balakrishnan	7872707457			
	Mane Dharmadree Dhanajay	9766434076			
	Jadhav Pratiksha Prakash	7387396905			
19			Future scope in construction industry	Construction Management	Prof. Sapkal R.N.
20			To study the effect of carbon lamination on the strength of concrete structures	Hydraulics	Dr. Thombare V.R.

Figure 5.5.32(a,b,c) Final Year Project List for the Academic Year 2020-2021

5.6 Faculty as Participants in Faculty Development/ Training Activities/ STTPs (15)

A faculty scores maximum five points for participation

Participation in 2 to 5 days Faculty Development Program: 3 Points

Participation > 5 days Faculty Development Program: 5 Points

Name of the Faculty	CAY	CAY _{m1}	CAY _{m2}
	2021 – 2022	2020 - 2021	2019 - 2020
Dr.PRASHANT RAMESH BAMANE	6	5	3
RAJENDRA NANDKISHOR SAPKAL	6	4	9
VIJAY RAMCHANDRA THOMBARE	0	1	1
PRIYANKA HANMANTRAO JAGDALE	0	1	4
DIKSHA SANJAY JADHAV	1	5	2
SHARAYU SHIVAJIRAO JEDHE	1	3	1
SNEHAL SHIVAJI TODKAR	0	1	1
ASMITA RAMCHANDRA MAHAJAN	0	1	1
Sum	14	21	22
RF= Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 5.1	9.75	9.70	10
Assessment = $3 \times (\text{Sum}/0.5\text{RF})$ (Marks limited to 15)	17.23	12.98	13.2
Average assessment over three years (Marks limited to 15) = 14.47			

Table B.5.6

5.7: Research and Development (30)

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

Number of quality publications in refereed/ SCI Journals, citations, Books/ Book Chapters etc. (06)

Ph.D. guided / Ph.D. awarded during the assessment period while working in the institute (04)

All relevant details shall be mentioned.

5.7.1 Academic Research:

Following is the list of research papers published by the faculty members in the reputed journals and conferences.

Academic Year 2022-23			
Sr. No	Faculty name	Title of paper	Name of the Journal /Conference
1	RAJENDRA NANDKISHOR SAPKAL	Review paper on design and estimate of sewage treatment plant	IJARSCT
		Watershed management in AGCE, Satara with special reference to Khodjaiwadi Karad	TROI
		Design Of Modular Multi-Storied Steel Frame Building	ICIRTES- International conference
		Study and suggestive measures of landslides	ICIRTES- International conference
		Utilization of plastic waste for making plastic bricks	ICIRTES- International conference

2	Dr.PRASHANT RAMESH BAMANE	Study paper on use of eco bricks	IJARSCT
		Review Paper on design of rain water harvesting system for new shirgao villlage	IJARSCT
		Study on an innovative time cost quality treadoff modelling of building construction project based on resource allocation	IJARSCT
		Review paper on Design and Estimate of sewage treatment plant	IJARSCT
		RETROFITTING OF RC STRUCTURE	ICIRTES- International conference
		A Research on Green Building's in India	ICIRTES- International conference
3	Mr. Suraj Shinde	Analyse and Design of Equitable Water Supply for Rural Water Distribution Network	ICIRTES- International conference
Academic Year 2020-21			
Sr. No	Faculty name	Title of paper	Name of the Journal /Conference
1	DIKSHA SANJAY JADHAV	Analysis of factors causing cost overruns in residential building construction project	IJRESM
		Effect of time and cost overrun on building construction project	IJCRT
		Factors Affecting on flooring labor productivity	IJRESM
		Influence of build ability factors on flooring labor productivity	IJRESM

Academic Year 2019-20			
Sr. No.	Faculty name	Title of paper	Name of the Journal /Conference
1	RAJENDRA NANDKISHOR SAPKAL	Watershed Management in arvind Gavali College of Engineering Satara with special reference to khodjaiwadi karad	International Journal of Current Engineering and scientific research
2	VIJAY RAMCHANDRA THOMBARE	A Study on hollow core foam concrete wall	International Journal of Scientific Research and Engineering Trends
3	Diksha Sanjay Jadhav	Impact of cost and time overruns on building construction project	ICACSE
4	Prof Ajay Bhimrao Kolekar	AGCE Amphitheatre	IJSRET

5.7.2 Sponsored Research**(05)****Funded research:**

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding amount (Cumulative during CAYm1, CAYm2, and CAYm3)

Amount > 20 Lakh

- 5 Marks

Amount >= 16 Lakh and <= 20 Lakh

- 4 Marks

Amount >=12 Lakh and < 16 Lakh

- 3 Marks

Amount >= 8 Lakh and < 12 Lakh

- 2 Marks

Amount >= 4 Lakh and < 8 Lakh

- 1 Mark

Amount < 4 Lakh

- 0 Marks

2022-23 (CAYm1)

Sr.No	Project Title	Funding Agency	Amount
1	Seismic performance of multistorey building with friction damper	Skyline Construction, Satara	20,000
2	Rain Water Harvesting	Ananda Constructin, Satara	10,000
3	Design of Modular Multistoried Steel Frame Building	Ananda Constructin, Satara	20,000
4	Analyze & design of equitable Water supply for rural water Distribution network	Skyline Construction, Satara	20,000
5	Analytical investigation on mitigation of short column effect in partia; infilled frame	Shresha Construction, Satara	15,000
6	Design and Estimate of	Skyline Construction, Satara	8,000

	Sewage Treatment Plant		
7	Experimental analysis on Green Concrete	Shresha Construction, Satara	15,000
8	Water quality analysis and modelling for lower koyana river	Ananda Constructin, Satara	20,000
9	Design of OPOD house and structure	Skyline Construction, Satara	20,000
10	A develop duel media filter model by usin pumic stone	Ananda Constructin, Satara	20,000
11	Retrofitting of RC structure	Shresha Construction, Satara	20,000
		Total Amount	Total Amount(X): 1,88000/-

2020-21 (CAYm2)

Sr.No	Project Tiitle	Funding Agency	Amount
1	Retrofitting of ill detailed beam column connection	All India Council for Technical Education,Mumbai	500000.00
2	Experiment on pervious concrete using titanium dioxide	Dhumal Construction,Pvt.Ltd. Satara	20000.00
3	Effect of granite and marble waste to enhance the properties of siltysoil	JW Infra Pvt. ltd Satara	15000.00
4	Strenghtening of beam and column by carbon fiber reinforced polymer	Innovative Construction Pvt. Ltd Satara	28000.00
			Total Amount(X): 563000.00

2019-20 (CAYm2)

Sr.No	Project Title	Funding Agency	Amount
1	A Study on Hollowcore foam Concrete Wall	JW Infra Pvt. Ltd. Satara, Maharashtra	25000.00
2	Beam Column Connection Under Monotonic & Cyclic Loading	Dhumal Construction Pvt. Ltd. Satara	32000.00
3	AGCE Rainwater Harvesting System	Arvind Gavali College of Engineering, Satara	35000.00
4	A Study on Hollowcore foam Concrete Wall	JW Infra Pvt. Ltd. Satara, Maharashtra	25000.00
			Total Amount(Y): 92000.00

Cumulative Amount (X + Y) = 843000/-

5.7.3 Development Activities

(10)

Product Development:

1) Innovative teaching aids:

A) Water Audit for Nagar Panchayat Koregoan”

Problem Statement: To provides convincing overview of the water use trends, effectiveness of conservation measures and potential cost and water savings.

Conclusion- This Water Audit report has been prepared under the Mazi Vasundhara Abhiyan 2.0 being implemented by the State Government to promote the five most important principles related to the Environment and their proper use and means, the report finds that:

Water audit is an essential part in saving and conserving your money and water and makes its essential for other water users.

Due to water audit, deep detail about the organization and its workings of water supply system was understood.

Nagar Panchayat’s network of water supply pipes has generally performed well to date.

The Koregoan Nagar Panchayat Building has taken proper care of the use of water being used properly. Water is not wasted anywhere.

Overall Water Consumption-:

Therefore, based on the Water Audit Report the **total water consumption for Nagar Panchayat building is 3551.6 liters per day** and the **per capita use is 32.17 lpcd**.

Suggestions-:

1. Use of automatic shut-off valves.
2. Use of flow control valves.
3. Use of Push tap in basins and bathrooms.

Instructional Material:

1. MOODLE System:

MOODLE is a learning platform designed to provide educators, administrators, and learners with a single robust, secure, and integrated system to create personalized learning environment.

In every course, a teacher can store the instructional materials like PowerPoint presentations, videos, animations, and lab manuals. The same is available to the enrolled students 24×7 .

Teachers can schedule quizzes and assignments for their subjects periodically. Quizzes are based on Multiple Choice Questions (MCQs) and assignments can be uploaded for assessment. The grades obtained by the students are visible immediately after the quiz is attempted.

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 and ANVESHAN are made available for study and presentation purposes.

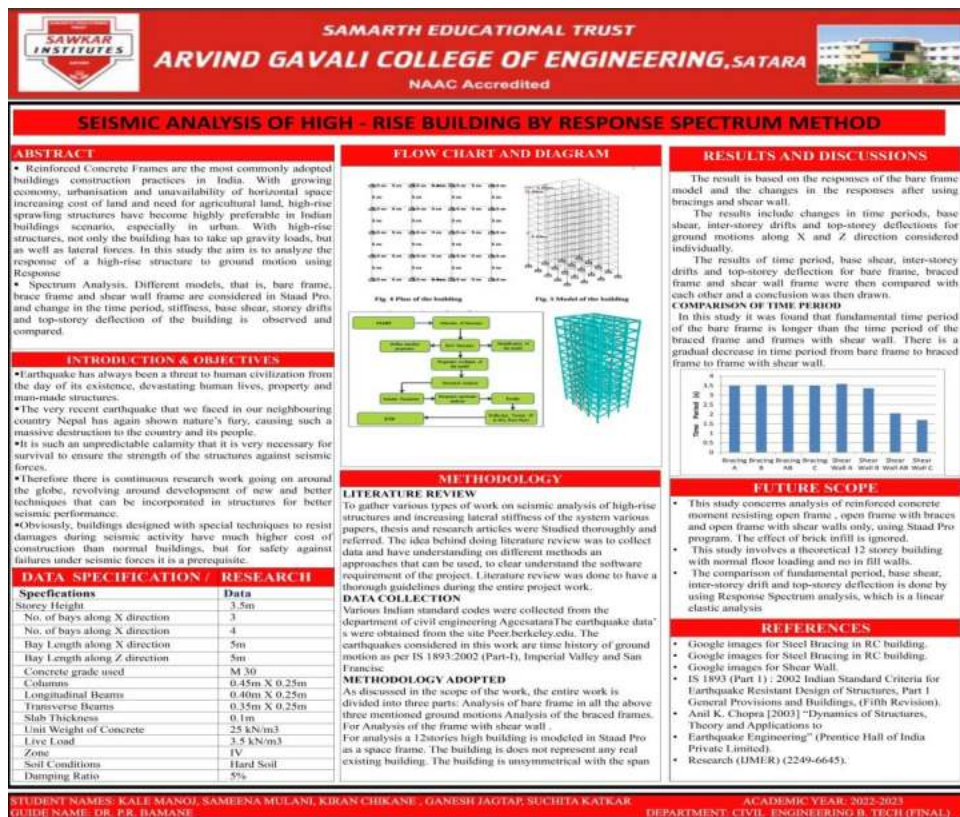


Figure 5.5.33 Project poster

5.7.4 Consultancy from industry

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
 NAAC Accredited

Approved by AICTE, New Delhi. Recognized by Govt. of Maharashtra & Affiliated to
 Group of Institutions, Mumbai & D. Y. Patil Marathwada Technological University (DYPTU), Nashik.
 Website - www.agcet.edu.in

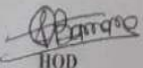
Ref No. AGCE/GN/2023/0201/354 Date: 22/04/2024

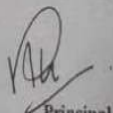
COMPRESSIVE STRENGTH TEST REPORT

Client - Mr. Supekar Vishal Rajendra
 Architect, Krishnanagar, Satara

Project Name - Yogesh Iad Residency,
 Karanje, satara

Cube No.	Date of Cube cast (R-20)	Date of testing	Age During Testing	Cube Weight (Kg)	Compressive strength (Mpa)	Avg. Compressive strength (Mpa)
C1	25/03/2023	31/03/2023	7 Days	8.28	14.75	15.97
C2	25/03/2023	31/03/2023	7 Days	8.58	15.56	
C3	25/03/2023	31/03/2023	7 Days	9.11	17.62	
C4	25/03/2023	7/04/2023	14 Days	8.25	18.22	18.52
C5	25/03/2023	7/04/2023	14 Days	8.25	18.45	
C6	25/03/2023	7/04/2023	14 Days	8.58	18.90	
C7	25/03/2023	21/04/2023	28 Days	9.00	22.30	22.54
C8	25/03/2023	21/04/2023	28 Days	8.58	24.22	
C9	25/03/2023	21/04/2023	28 Days	8.25	21.10	

Prepared By  HOD

 Principal

Scanned with CamScanner

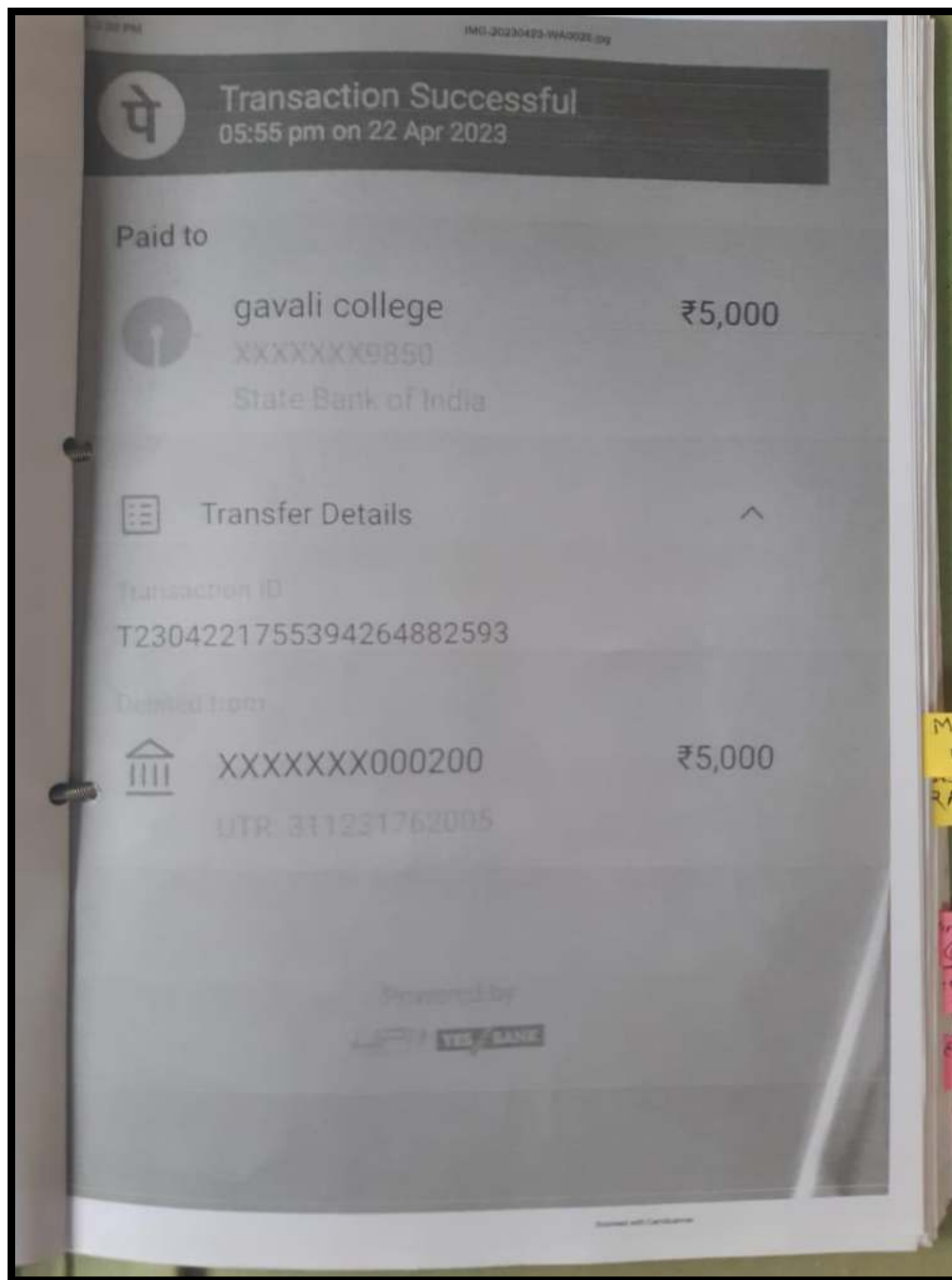


Figure 5.5.34 Consultancy bill

2022-23 (CAYm3)

Sr. No	Project Title	Duration	Funding Agency	Amount
1.	Retrofitting of RC structure	1 Year	Shresha Construction, Satara	20,000
2	Seismic performance of multistorey building with friction damper	1 Year	Skyline Construction, Satara	20,000
3	Design of Modular Multistoried Steel Frame Building	1 Year	Ananda Constructin, Satara	20,000
4	Analyze & design of equitable Water supply for rural water Distribution network	1 Year	Skyline Construction, Satara	20,000
5	Analytical investigation on mitigation of short column effect in partia; infilled frame	1 Year	Shresha Construction, Satara	15,000
6	Design and Estimate of Sewage Treatment Plant	1 Year	Skyline Construction, Satara	8,000
7	Experimental analysis on Green Concrete	1 Year	Shresha Construction, Satara	15,000
8	Compressive strength test report		Supekar Architect	5000
			Total =	123000/-

2021-22 (CAYm2)

Sr. No	Project Title	Duration	Funding Agency	Amount
1.	AICTE Margadarshan Mentor-Mentee Scheme	1 Year	AICTE	500000
2	Analysis and compression of RCC building at various zone factors	1 Year	Aditi Bildcon, Satara	10000
3	Constitutive properties of crush sand and PPC concrete	1 Year	Aditi Bildcon, Satara	12000
4	Utilization of tire rubber crumb for waterproffing	1 Year	PC Construction, Satara	11000
5	To develop a dual media filtering using pumice stone	1 Year	Rudhra builders, Satara	12000
6	Rain water harvesting	2 Months	Shresha Construction, Satara	13000
7	Stress ribbon bridge	1 Year	Gammon india, Delhi	10000
			Total	568000/-

2020 – 21 (CAYm1):

Sr. No	Project Title	Duration	Funding Agency	Amount
1.	A case study of Kolmba river analysi	1 Year	AICTE	20000
2	Structrual audit of exisiting building	1 Year	Shresha Construction, Satara	10,000
6	Rain water harvesting	2 Months	Shresha Construction, Satara	15,000
7	Stress ribbon bridge	1 Year	Gammon india, Delhi	15,000
			Total =	60000/-

Cumulative Amount (X + Y + Z) = 751000/-

5.8 Faculty Performance Appraisal and Development System (FPADS)

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 Govt. Of Maharashtra state vide GR dated 15th Feb 2011. Hence it is ensured that information on multiple activities is appropriately captured.

CATEGORY I: TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES

Based on the teacher's self-assessment, API scores are proposed (a) 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.

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

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. Performance appraisal system of the non teaching staff:

Annual assessment for the performance based appraisal system is adopted as per guidelines by

Government of Maharashtra. Hence it is ensured that information on multiple activities is appropriately captured.

The information includes

Part A (Self appraisal): General information and academic background, courses/training programs attended/ notable achievements during the year.

Part B (Appraisal by reviewing officer(s)): Performance in Technical work and administration related activities, Co curricular, extension, professional, development related activities, academic contributions, general conduct and qualities, aptitude.

For review of performance appraisal:

The Performance based appraisal system (PBAS) forms are submitted through Head of the Department to the staff academic committee which is also the review committee.

The outcome: The best part of the PBAS is that each faculty becomes aware of self weaknesses and tries to improve oneself in those areas so that he/she can score better in the next year.

Major decision taken: The score/ category obtained in the PBAS contribute to the decision about faculty appreciation. Faculty with low score is personally counseled by the Principal/Director.

Communication with stakeholders: PBAS score of faculty is available to stakeholders as per their requirement/ request.

APPRAISAL AND 360° FEEDBACK FORM

Name: **Sapkal Rajendra Nandkishor**
 Date of Birth: **02/04/1981**
 Highest Qualification: **UG / PG / Ph.D.**
 Designation: **Asst. Professor & TPO**
 Experience: Teaching **9 years** Industrial **8 years** Total **17 years**
 Program: **B.Tech**
 Mobile No.: **980388660**
 Email: **rajendrasapkal81@gmail.com**
 Permanent Address (with pin code): **A/P - Tukarwasti Nagar (Amanbham), Motwani Road, Post - 420203 Satara**
 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.

- Lectures, seminars, tutorials, practicals, contact hours undertaken taken as percentage of lectures allocated.
- Lectures or other teaching duties in excess of the UGC norms.
- Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students.
- Use of participatory and innovative teaching-learning methodologies; updating of subject content; course improvement etc.
- 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)
1A	Excellent course file for the subject, teaching plan displayed	20	Course file/teaching plan done Properly	19	18
1B	Conducting practical lab. / tutorials work nicely with lab innovations	20	Practical plan done	19	18
1C	Student Feedback outcome	10	Prepared given feedback form	9	9
2A	Remedial Classes OR Extra lectures for DSE students	4	Attendance record maintained	4	4
2B	Content beyond syllabus	6	Thorough Question bank	6	6
3A	Preparation and Imparting of knowledge / instruction as per curriculum	10	—	8	8
3B	Syllabus enrichment by providing additional resources to students	10	Arrange Extra work & assignment	8	8
4A	Number of ICT Based Teaching material	5	All the notes prepared	5	4
4B	Number of Interactive Courses	5	Reports prepared	4	4
4C	Effective use of MOODLE	10	Yes, online done	9	9
5A	At Institute Level	15	TPO work	14	14
5B	At University Level	10	Paper Assessment	10	10
Total Score		125		115	112
Minimum API Score Required		75			

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	Prepair report & given certificate	4	4
1.B	Industry tour / visit, Visit to technical Exhibition	4	Reports prepared	4	4
1.C	Arranged the invited talks / Expert lecturers at Department / Institute level	4	—	4	4
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		2	2
1.E	extension work through NSS/NCC and other channels, cultural activities	4	Prepair report	3	3
2.A	Institute level Responsibilities (Deans/COE: 05, Heads:3, other:02)	5		2	2
2.B	Event Coordinators (Institute Level: 05, Department Level: 03, Participation: 02)	5	National level Awardees over Co-ordinator in infra	3	3
2.C	Department Level Responsibilities: 05, Participation: 02	5	TPO, All reports certificate are done	5	4
3.A	Participation in short term training courses, curriculum development, training courses, talks, lectures	5	Reports are done	5	5
3.B	Membership of professional associations committees, Boards of Studies, editorial committees of journals / institutional publications.	5		—	—
3.C	Participation in subject associations, conferences, and seminars without paper presentation.	5		—	—
Total Score		50		50	50
Minimum API Score Required		20		32	31

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 *	20 / 2 publications			
1.B	Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers	10 / 2 Publications	Paper Published in JSSSR & JGER Journal	10	9
1.C	Conference proceedings as full papers, etc. (Abstracts not to be included)	5 / 2 publications	Certificate given	3	3
2.A	Text or Reference Books Published by International Publishers with an established peer review system	20 / 100 author's chapters in an edited book		—	—
2.B	Subject Books by National level publishers/State and Central Govt. Publications with ISBN/ISSN numbers	15 / 100 author, and 10 chapters in edited books		—	—
2.C	Subject Books by Other local publishers with ISBN/ISSN numbers	10 / 100 author, and 10 chapters 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		—	—
Sponsored Projects carried out/ ongoing					
3.A	a) Major Projects amount mobilized with grants in between Rs.10,000 to Rs.50,000/-	10 / 1 major project	2 major project certificate taken	10	9
	b) Minor Projects (Amount mobilized with grants upto Rs.10,000/-)	5 / 2 minor projects	Certificate taken	4	4
3.B	Consultancy Projects carried out / ongoing Amount mobilized with upto Rs.15,000/-	10 / consultancy	certificate taken	5	5
3.C	Completed projects Quality Evaluation: Completed project Report (Acceptance from funding agency)	5 / 1 major project and 5 minor projects	—	5	5
3.D	Projects Outcome / Outputs: Patent/Technology transfer/ Product/Process	5 / each major project and 10 minor projects (10 marks for regional level)		—	—

4.A	M.Tech/M.Phil. Degree awarded only	2 each	Certificate	2	2
	Ph.D.			—	—
4.B	a) Degree awarded	1 each		—	—
	b) Thesis submitted	1 each		—	—
5.A	a) Not less than two weeks duration	1 each		—	—
	b) One week duration	1 each		—	—
	Participation and Presentation of research papers (oral/poster) in				
5.B	a) International conference	8 each	Certificate	8	8
	b) National conference	6 each		—	—
	c) Regional/State level	3 each		—	—
	d) Local – University/College	1 each		—	—
5.C	a) National level	1 each		—	—
	b) State level	1 each		—	—
Total Score		175		47	16
Minimum API Score Required		70		70	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	115	32	47	194
Score by Screening/selection committee	112	31	46	189

Date: _____
Place: Satara

Signature of Faculty: [Signature]

Recommendation by screening team (Academic Monitoring Committee):

Member AMC: [Signature] Head of Department: [Signature] Registrar: [Signature] Principal: [Signature]

Figure 5.5.35 Faculty appraisal form

Annexure-I
API Performs for Professor/Associate Professor & Assistant Professor
ACADEMIC PERFORMANCE INDICATORS BASED ON PERFORMANCE BASED
APPRAISAL SYSTEM TO BE SUBMITTED BY EACH APPLICANT FOR APPOINTMENT
OF TEACHERS AND OTHER ACADEMIC STAFF
AS PER UGC REGULATIONS, 2010

Advertisement No.	
Name of the Applicant	Dr. Vijay A. Thombare
Date of Birth	01/01/1963
Post applied for and Subject	Professor
Name of the Department	Civil Engineering

SCORES FOR ACADEMIC PERFORMANCE INDICATORS (API) 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/courtesy participation in examination and evaluation, (c) contribution to innovative teaching, (d) research work. The minimum API score required by teachers from this category is 72. The self-assessment score should be based on substantively verifiable criteria whenever possible and will be finalized by the governing university committee.

S. No.	Details of Activity	Maximum Score	Self Assessment Score (to be filled by Applicant)	Weighted API Score (for other use)
1	Lectures, seminars, tutorials, practicals, workshops, course development, other assignments or lectures attended	20	11	22.4
2	Exercises or other teaching tools or books or in 100% form	20	18	37.7
3	Participation and reporting of knowledge / evaluation in all academic activities concerned in pursuing academic reputation in district	20	14	27.7
4	Use of e-learning and virtual reality, learning, methodology, updating of subject content, course development etc.	20	12	24
5	Examination, evaluation, computer, research paper writing, evaluation committee, or other period, as per subject	20	21	41.7
	Minimum API Score Required	72	54	71

* Supporting documents, whenever required, may be attached.

(Signature of Applicant)

[illegible]

Page 300

5.9: Visiting/Adjunct/Emeritus Faculty etc.**(10)**

Adjunct faculty also includes Industry experts. Provide details of participation and contribution in teaching and learning and/or research by visiting/adjunct/Emeritus faculty etc. for all the assessment years.

- Provision of inviting/having visiting/adjunct/emergitus faculty (1)
- Minimum 50 hours per year interaction with adjunct faculty from industry/retired professors etc.

(Minimum 50 hours interaction in a year will result in 3 marks for that year; 3 marks × 3 years = 9 marks)

The following are the details for the Visiting faculty in the department:

Academic Year	Name of Visiting Faculty	Class	Duration in Hrs
2022-23	Mr. Sohel Khan	Btech. (Civil Engg.)	54
2021-22	Snehal Prathamesh Pawar	SY Btech (Civil)	54
2020-21	Ms. Jayashree Khatal	SY & TY Btech (Civil)	54
2019-20	Mr. Ghanshyam Matkar	TY Btech (Civil)	54

CRITERION 06	FACILITIES AND TECHNICAL SUPPORT	80
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6.1 Adequate and well equipped laboratories, and technical manpower (30)**A. Adequate well-equipped laboratories to run all program-specific curriculum (20)**

Civil Engineering Department provides adequate & well equipped laboratories & technical manpower as per the norms. Some major equipment in each laboratories mentioned in table no. 6.1 & also mentioned technical staffs details

Table 6.1: Details of Laboratories, Equipment and Technical Manpower

Sr. No.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Important equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	Environment Engineering Lab	20	1.PH Meter, 2.BOD Incubator 3.Turbidity Meter 4. Jar Test Apparatus	SY(Sem-IV) ENV Lab – 6 hours Btech (Sem-VII) PP Lab 6 hours	Ms. Sankpale P.P.	Lab Assistant	BTech Civil
2	Mechanics of Solid lab	20	1.Universal Testing Machine, 2.Hardness Testing m/c 3. Impact Testing m/c,	SY (Sem-III) Mos- 6 hours Btech (Sem-VII) – 6 hours	Ms. Patil S.V.	Lab Assistant	BTech Civil
3	Transportation Engineering Lab	20	1.Abrasion Test Apparatus, 2.Softening Point	TY (Sem-V) TRE Lab - 6 hours Btech (Sem-VII) – DDRS	Ms. Sankpale P.P.	Lab Assistant	BTech Civil

			Test apparatus, 3.Flash & Fire Point Test apparatus, 4.Penetration Test Apparatus,	Lab hours 6			
4	Soil Mechanics Lab	20	1.Standard Proctor, 2.Direct Shear Test Apparatus 3.Unconfined Compression Test 4.Triaxial Test Apparatus	TY (Sem-V) Soil Mech Lab- 6 hours TY (Sem-V& VI) Seminar - 2 hours	Ms. Sankpale P.P.	Lab Assistant	BTech Civil
5	Concrete Technology Lab	20	1.Compression Testing Machine, 2.Compaction Factor Test Apparatus, 3.Vee-Bee Consistometer Test Apparatus,	TY (Sem-VI) CT lab - 6 hours	Ms. Hake S.V.	Lab Assistant	Diploma Civil
6	Hydraulics-II Lab	20	1. Calibration of V-Notch & Rectangular Notch 2. Centrifugal Pump 3.Pelton Wheel Turbine 4. Francies Turbine 5. Reciprocating Pump Apparatus	SY (Sem –IV)- Hydraulics lab II - 6 hours	Ms. Patil S.V.	Lab Assistant	Diploma Civil

7	Surveying & Building Planning Lab	20	1. Dumpy Level 2. Theodolite 3. Total Station 4. Auto Level	SY (Sem-III) Surveying lab - 6 hours TY (Sem-VI) Mini Project - 6 hours SY (Sem-IV) BPD Lab - 6 hours	Ms. Sankpale P.P.	Lab Assistant	BTech Civil
8	Engineering Mechanics Lab	20	1. Law of Polygon of forces 2. Jib Crane Apparatus 3. Support Reaction of Beam 4. Bell Crank lever apparatus	FY (Sem-I & II)=18 hours	Ms. Hake S.V.	Lab Assistant	Diploma Civil

6.2 Additional facilities created for improving the quality of learning experience in laboratories (25)

Civil Engineering Department provides extra facility beyond syllabus in some laboratories. These facilities provide service to the students & also help to the project work. The details of facilities are mentioned in table no. 6.2.

Table 6.2: Details of Additional Facilities Created for improving Quality of Learning Experience in Laboratories

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 with Bandwidth 300 Mbps and Wi-Fi of 3 Mbps/User is provided.	Seminar/Mini-projects/Assignments/Self Learning	36 Hours/Week	Courses specified in Curriculum, to access Moodle,	PO5, PO8, PO10 & PO12 PSO2
2.	Smart Class Room	Intelligent Interactive Panel & projector facility with the seating capacity of 32	<ul style="list-style-type: none"> Smart class room are utilized for animation and video lectures. These digital teaching learning is more effective than traditional teaching 	36 Hours/Week	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	<ul style="list-style-type: none"> • To keep student abreast with latest technology • To provide national level platform to student 	36 Hours/Week	To grasp important concept of various subjects and modern tools used in computer science and engineering.	PO 1, PO2, PO3, PO5 PSO2
4.	Digital Library	Del Net	<ul style="list-style-type: none"> • To keep student abreast with latest technology • To provide national level platform to student 	36 Hours/Week	Project work	PO1, PO2, PO3, PO5, PO12 PSO1
5.	Virtual Lab	Under Virtual Labs project, over 100 Virtual Labs consisting of approximately 700+ web-enabled experiments were designed for remote operation and viewing which is co-ordinate by IIT	Integrate class room learning with virtual experimentation	Virtual lab experiment conduction over wide range of parameters	Better Understanding of the subject, parametric analysis over wide range and knowledge beyond syllabus.	PO1, PO4, PO5 PSO1,

		Hyderabad & NITK Surathkal through the initiative of Ministry of Human Resource Development (MHRD)				
6	Surveillance Cameras for exam rooms	IP cameras	<ul style="list-style-type: none"> To enhance the security of the department 	36 Hours/Week	Security purpose	PO5 PSO1
7	Moodle Learning Management System	Institute having separate Moodle learning management system to provide digital content.	<ul style="list-style-type: none"> For online digital record maintenance like attendance, examination results, feedback For sharing digital study material	36 Hours/Week	Courses specified in Curriculum	PO5, PO8, PO10 PSO 1
8	Departmental Library	Program Specific text books and reference books	To provide additional support for students	36 Hours/Week	Courses specified in Curriculum	PO1, PO2, PO3, PO5, PO12 PSO 1

6.3 Laboratories: Maintenance and overall ambience**(10)****6.3.1 Maintenance and Records**

Department has Full furnished State of Art laboratories with well-equipped equipment which shall cater to UG course as per curriculum requirements. The central policy at institute level is followed for maintenance of laboratories and overall ambience as mentioned below:

1) Maintenance in Laboratories:-

1. All the equipment in the Laboratory is maintained on a regular basis by the concerned laboratory technicians under the guidance and supervision of the laboratory in charge
2. Equipment is marked with indelible ink marking to identify.
3. General servicing is done during summer vacation before commencement of academic year. Servicing is also done whenever necessary. Calibration is being done to the equipment whenever needed.
4. Electrical fitting is checked in on regular basis by electrician.
5. As per the requirement, minor repairs are carried out by the lab assistant.
6. Any equipment which is found defective or out of calibration shall be immediately Withdrawn from services.

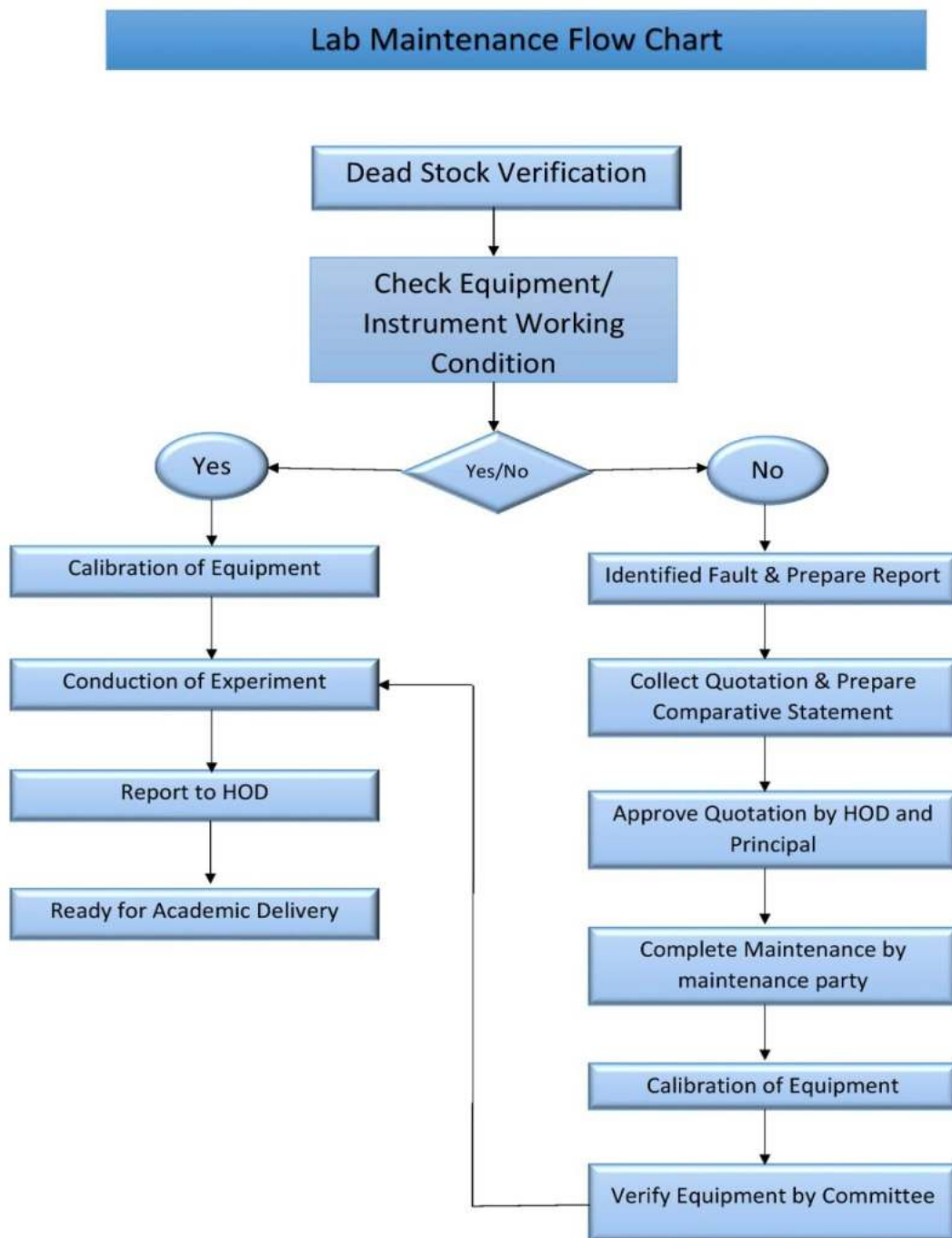


Fig. 6.3.1 a Flow Chart of Lab Maintenance Process

1) Records-:**A) Dead Stock Register-:**

- 1) To maintain inward record of all equipment, tools in proper way.
- 2) A register containing details of equipment, tools, suppliers with perspective with date, time, purpose & signature mentioned.

B) Laboratory Manual -:

- 1) Separate lab manual is available in every lab & maintain properly.
- 2) To provide a stepwise experiment procedure to conduct experiments safely and a written format to make a report of lab experiment.

C) Logbook-:

- 1) Logbooks are available in every lab & maintained regularly by lab in charge.
- 2) Experiment conduction details & lab user's details are mentioned in the logbook.

D) Laboratory time-table-:

- 1) Batch wise laboratory Time Table is displayed in every lab.
- 2) To know the engagement of the students as well staff and technical manpower concerned to the lab so the floating of the lab utilization can be managed time to time.
- 3) Lab utilization is done as per the laboratory timetable.

E) Purchase orders and bills-:

- 1) Purchase order Xerox copy & billing details of lab equipment every lab are maintained further contact and maintenance aspect.

F) Calibration Records-:

- 1) To regulate the calibration of equipment and facility for achieving desired accuracy, precision and performance.
- 2) Maintained calibration certificate in maintenance record file.

SAMARTH EDUCATIONAL
DEAD STOCK

Name of Item: PH Meter

Nonenditure: PH

Sr. No.	Bill No. & Date	Details of the supplier	Description of Material	Rate	Quantity Purchased	Cost (including taxes)
1.	EP/12-13/ 01467 (10-9-2016)	EFE Instrument PVT. LTD B-4, Zaveri Industrial Estate, opp. Shyam Vill, Singarva - Kathwada Road, Kathwada, Ahmedabad-382420 (079) (6640660)	PH meter	6000	1	5670
2.	'16-17/ 1086	am Enterprises D-49, Bhoirale Park opp. Vaibhav Theater, Hadapsar, Pune-411028 (09890903621)	PH meter	1800	1	

TRUST, SATARA
REGISTER

Room Number: SW002

Reference: _____

Dead Stock No	Indent No & date	Signature of Lab Assistant	Signature of Lab Incharge	Signature of HOD	Remarks
AGCE/2012-13/PH	05(253)/E-01/ 01-01	Nikar	[Signature]	[Signature]	
AGCE/2016-17/PH	05(253)/E-01/ 02-01	Nikar	[Signature]	[Signature]	

Dr. Vilas Pharande
Principal
Arvind Gawali College of Engineering
Pantnigwadi, Satara

Fig. 6.3.1 b Sample of Dead Stock Register

Arvind Gavali College of Engineering

Department of Civil Engineering

Lab No. 003

Lab Name:- Surveying Laboratory - II

LIST OF EXPERIMENT

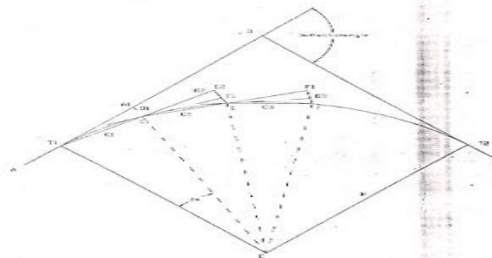
1. Tacheometry
 - a) Determination of tachometric constants, b) Determination of grade of a line.
 2. Use of subtense bar for distance measurement.
 3. Setting out of curves
 - a) Simple circular curves, b) Transition curves
 4. Study of topo sheets
 5. Study of Aerial Photographs under Stereoscope
 6. Traversing by Total Station.
- Projects: 1) Road Project 2) Radial Contouring. 3) Block Contouring Project 4) Theodolite Traversing

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Department of Civil Engineering

Experiment-3

Aim:- Setting out of simple circular curve by offsets from chord produced method
 Problem Two straight intersect at chainage (30+10), the deflection angle being 44° . Calculate the necessary data for laying out a curve by the method of offsets from the chord produced. The degree of the curve being 7° . The peg interval being equal to 20meters.



Procedure for setting out of curve

- 1) Locate the tangent points T1 and T2 on the straight AB and CB.
- 2) Cut T1D1 equal to the length of the first sub chord (C1) already calculated along the tangent T1B.
- 3) With T1 as centre and T1D1 radius, swing the chain or tape such that the arc D1D= calculated offset O1, thus fixing the first point D on the curve.
- 4) Keep the chain along T1D and pull it straight in the forward direction of T1D until the length DE1 becomes equal to second C2 (i.e. the length of normal chord).
- 5) With D as centre and DE1 as radius, swing the chain such that the arc E1E=calculated offset O2, thus fixing the point (a) and (e) until that end the curve is reached. The last point so fixed must coincide with the previously located points T2 (the last curve tangent point) if not, find out the closing error. If it is small (say with in 2m) it should be distributed to all the points by moving them sideways by

Survey-II

Department of Civil Engineering

an amount proportional to the square of their distances from the point T1, otherwise the whole curve should be set out again.

Solution:- Given degree of curve, $D=7^\circ$
 Deflection angle, $\phi=42^\circ$
 Radius of curve $R = \frac{1718.87}{7} = 245.55m$
 Tangent length $= R \tan \frac{\phi}{2} = 245.55 \times 0.4040 = 99.20m$
 Length of Curve $= l = \frac{\pi R \phi}{180^\circ} = 188.57m$
 Chainage at the point of intersection $= (30+10)$ chains $= 30 \times 20 + 10 = 610m$
 Chainage at 1st tangent point $= 610.00 - 99.20 = 510.80m$ $(25+10.80)$ chains
 Chainage at end of curve or second tangent point $= 510.80 + 188.57 = 699.37m$
 $(34+19.37)$ chains
 Note:- 20m chain used.
 Length of 1st Sub-chord $= (26+00) - (25+10.80) = 9.20m$
 Number of full chord $= 34 - 26 = 8$
 Length of last sub-chord $= (34+19.37) - (34+00) = 19.37m$
 Check: Length of Curve $= 1^{st}$ sub chord + Full chord \times last sub chord
 $= 9.20 + 8 \times 20 + 19.37 = 188.57m$
 Now from equation length of first offset, $O_1 = \frac{C_1^2}{2R} = \frac{9.20^2}{2 \times 245.55} = 0.77m$
 Length of second offset $O_2 = \frac{C_2(C_1 + C_2)}{2R} = \frac{20(9.20 + 20.00)}{2 \times 245.55} = 1.19m$
 Offsets from O3 to O8 are given by equation
 $O_3 \text{ to } O_8 = \frac{C^2}{R} = \frac{20^2}{245.55} = 1.63m$
 Last offset $O_n = \frac{C_n(C_{n-1} + C_n)}{2 \times R}$
 $O_{15} = \frac{19.07(20.00 + 19.37)}{2 \times 245.55} = 1.55m$


Results:- By offsets from chord produced method the simple circular curve was plotted on the ground

Survey-II

Fig. 6.3.1 c Sample of Lab Manual

Log		Book						
Sl. No.	Day & Date	Class & Batch	Name of students	Students sign	Subject & Practical covered	Time & Hours	Staff Sign	HoD Sign
1.	9/2/2023 Thursday	Td Batch TL	Ashay chonge Anant Thane Harshada Shinde Meghvi Sawant Saying Madam Pudish Jyoti Santosh Pawar Sandeep Desai Mayur Valskar Kulbhav Bhatnagar Ananta Patil Savan Pichai	 	Penetration Test of Bitumen	1.10-3.10	Dr. S. S. Patil	Dr. S. S. Patil
2.	15/2/2023 Wednesday	Td Batch T2	Pineesh Valskar Kadam Atul Prathmesh Thane Padmal Sawant Madhav Patil Ankur Patil Ankur Patil Ankur Patil Ankur Patil Ankur Patil Ankur Patil Ankur Patil Ankur Patil	 	Penetration Test of Bitumen	3.10-5.00	Dr. S. S. Patil	Dr. S. S. Patil

Fig. 6.3.1 d Sample Logbook



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.sats.edu.in

Address: At Panmalwad, Post - Varge,
 Tal & Dist - Satara - 415 015 (Maharashtra)
 Phone: 02162 - 261122, 260100
 e-mail: agceaggsatara@gmail.com
 Institute Code: Engg DTE EN-6545
 Poly Code: DTE DN-6545
 Poly MSBT-1617

Ref No.: _____ Date: _____

V.R. Engineering Works,
 Rajopadhye Complex,
 Near Ambabai Talim,
 Miraj-416410.

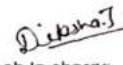
Subject:- Purchase order for maintenance of Hydraulics Lab. Equipments.


Respected Sir/Madam,

As per the above subject we need some instruments for Hydraulics Lab, so that we are placing this order for the following list of material required for maintenance.

Sr.No.	List of Materials	Quantity	Cost
1	Reciprocating Pump Test Rig :		
	A) Dimmer Set 4 amp.	1	3800
	B) Wiring and Gen. Mainte.	1	4100
2	Pelton Wheel Turbine :		
	A) Wet Set (Wet Balance)	2	1900
	B) Mercury	1	2100
	C) Petrol Pipe	1	500
	D) Gen. Maintenance and Labour Charges.	1	4700
3	Francis Turbine - Gen. Mainte.	1	6700
4	Impact of Jet Set- Gen. Mainte. and Wet	1	4800
5	Study of V Notch and Rectangular Notch App. (M.S. Tank with F.R.P. Lining) Recirculating Type New Set up	1	32900
TOTAL			61500/-
10% Discount			55350/-
30% Advance and against Delivery Material Cost			16605/-
Balance Payment			38745/-

So, kindly fulfil the same as earliest.


 Lab In charge


 Principal




 Secretary

Fig. 6.3.1 e Sample of Purchase Order



CASH / CREDIT MEMO Mob. 9850951120

V. R. ENGINEERING WORKS

"Rajopadhye Complex", Near Ambabai Talim, MIRAJ-416410.

Manufacturers of : Critical Jobs Machining, Fabrication & Engineering Equipment, Building Model's, Anatomy Model's & Traders

No. : **178**

TAX INVOICE

Date : **7-9-22**

M/s. ARVIND GAVALI COLLEGE OF ENGINEERING SATARA.

Sr. No.	Particulars	Quantity	Rate	Amount Rs.	Ps.
1]	Reciprocating Pimp Test Rig:				
	A] Dimmer Set 4 amp.	1		3800=00	
	B] Wiring and Gen Mente.	1		4100=00	
2]	Pelton wheel Turbine:				
	A] Wet Set (wet Balance)	2		1900=00	
	B] Mercury	1		2100=00	
	C] Petrol pipe	1		500=00	
	D] Gen. Maintenance & labour charges	1		4,700=00	
3]	Francis Turbine-Gen-Mainte & wet	1		6,700=00	
4]	Impact of Jet Set-Gen-Mainte & wet	1		4,800=00	
5]	Study of V Notch & Rectangular Notch	1		32,900=00	
	APP (M.S. Tank with F.R.P. Lining)				
	Recirculating Type New Set up				
	TOTAL			61,500=00	
	10% Discount			55,350=00	
	30% Advance & against Delivery material cos			16,605=00	
	Balance Payment Total			38,745=00	

IN WORDS Rs. Threety Eight thousand seven hundred Fourty Five only.

VAT TIN No. 27720213631 V
CST TIN No. 27720213631 C

* We hereby certify that my/our Registration certificate under the Maharashtra Value Added Tax Act 2002, is in force on the date on which the sale of goods specified in this Tax Invoice is made by me/us and that the transaction of sale covered by this Tax Invoice has been effected by me/us and it shall be accounted for in the turn over of sales while filing of return and the due tax, if any, payable on the sale has been paid or shall be paid.



V. R. ENGINEERING WORKS
MIRAJ-416410
For V. R. ENGINEERING WORKS

Fig. 6.3.1 f Sample of Purchase Bill






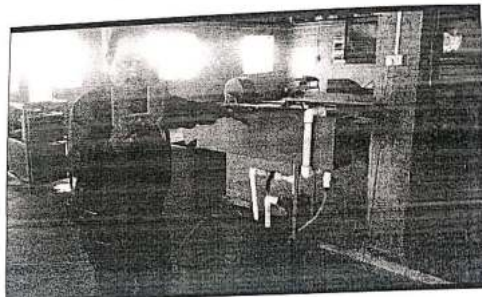














<div data-bbox="203 210 665 283">  <p>SAMARTH EDUCATIONAL TRUST ARVIND GAVALI COLLEGE OF ENGINEERING WASE, WASEGAON Approved by AICTE, New Delhi, Recognized by UGC, UPEMA, DTE, Mumbai & Affiliated to K. J. Somaiya Institute of Engineering & Technology, Vashi, Mumbai Website: www.agce.edu.in</p> </div> <div data-bbox="324 294 535 346"> <p>Report on Hydraulics Lab Maintenance</p> </div> <div data-bbox="186 378 316 430"> <p>Day:- Monday Date:- 14/11/2022</p> </div> <div data-bbox="186 430 292 457"> <p>Observations:-</p> </div> <div data-bbox="186 462 649 487"> <p>During demonstration of Hydraulics Lab following observation are done:</p> </div> <div data-bbox="203 493 690 730"> <ol style="list-style-type: none"> 1) Following Maintenance of reciprocating pump is done <ol style="list-style-type: none"> a) Dimmer Set 4 amp b) Wiring and Gen. Maintenance. 2) Following maintenance of pelton wheel turbine is done <ol style="list-style-type: none"> a) Wet Set b) Filling mercury c) Changing petrol Pipe d) General maintenance 3) General maintenance of Francis turbine is done. 4) General maintenance of Impact Test machine is done. 5) New V notch & rectangular notch apparatus (MS Tank with FRP linking) is given & now working regular. </div>	<div data-bbox="803 199 1299 273"> <p>Total No. Of Faculty Present during demonstration :- 1 Demonstration of UTM is carried out on today in presence of following faculty members:</p> </div> <div data-bbox="820 273 1023 304"> <p>1) Mr. V.S. Nikam <u>V.S.</u></p> </div> <div data-bbox="844 336 1274 598"> <p>Maintenance of reciprocating pump</p>  </div> <div data-bbox="844 598 1274 861"> <p>Maintenance of Pelton wheel turbine</p>  </div>				
<div data-bbox="243 1081 657 1365"> <p>Maintenance of Francis Turbine</p>  </div> <div data-bbox="235 1375 657 1659"> <p>Maintenance of Impact Jet</p>  </div>	<div data-bbox="860 1008 1356 1354"> <p>New V-Notch & Rectangular Notch Apparatus</p>  </div> <div data-bbox="812 1365 1388 1501"> <table border="0"> <tr> <td> Lab Incharge (Mr. Salunkhe R.N.)</td> <td> Infrastructure Co-ordinator (Mr. Nikam V.S.)</td> <td> HOD (Dr. Bamane P.R.)</td> <td> Principal (Dr. Pharene V.J.)</td> </tr> </table> </div> <div data-bbox="844 1585 1388 1701"> <p>checked and found in working condition.</p> <p></p> </div>	 Lab Incharge (Mr. Salunkhe R.N.)	 Infrastructure Co-ordinator (Mr. Nikam V.S.)	 HOD (Dr. Bamane P.R.)	 Principal (Dr. Pharene V.J.)
 Lab Incharge (Mr. Salunkhe R.N.)	 Infrastructure Co-ordinator (Mr. Nikam V.S.)	 HOD (Dr. Bamane P.R.)	 Principal (Dr. Pharene V.J.)		

Fig. 6.3.1 g Report of Equipment Working after Maintenance



**Phinitek
Engineers**

Pramod Patel Building,
Factory Road, Kabnur,
ICHALKARANJI - 416 115 Dist. Kolhapur (Mah.)
09326010774 09422600774
Website : www.phinitek.com

CALIBRATION TEST RESULT OF UNIVERSAL TESTING MACHINE
(As per IS: 1828 (part - 1): 1991 for Universal Testing Machine)

Machine Model - MUTC-100	Machine SR. NO: 111206035
CAPACITY - 1000 KN	


PROVING RING DETAILS	NAME OF CUSTOMER
INSTRUMENT SR.NO - 1000 kN.9914	<u>ARVIND GAVALI COLLEGE OF ENGG.</u> Gat. No. 247, Panmalewadi, Pune Satara Road <u>Satara - 415015</u>
CAPACITY: 1000 kN	ROOM TEMPERATURE: 26°C
DIAL GAUGE NO.- F 3848 BAKER MERCER	DATE OF M/C CALIBRATION- 10/03/2022
PROVING RING CALIBRATED BY- FIE Research Institute, Ichalkaranji, Maharashtra. Accreditation No. NABL CC - 2029	NEXT CALIBRATION DUE DATE- 09/03/2023

INSTRUMENT NO. - 1000 kN.9914

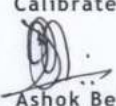
Sr. No	Load kN	Std. Reading	Temp corrected reading	Observed Reading			Average	Diff	% Error
				I	II	III			
1.	100	58.8	58.83	59.0	59.5	59.0	59.16	0.33	0.55%
2.	200	118.5	118.56	118.5	119.0	119.0	118.83	0.27	0.22%
3.	400	239.8	239.92	240.5	240.5	241.3	240.76	0.84	0.34%
4.	500	298.3	298.46	299.5	300.0	300.0	299.83	1.37	0.45%
5.	600	356.9	357.09	358.5	358.5	358.0	358.33	1.43	0.39%
6.	800	476.7	476.95	478.9	479.0	479.0	478.96	2.01	0.41%
7.	1000	596.9	597.22	599.0	599.5	599.0	599.16	1.94	0.32%

Manf. of

- Universal Testing M/Cs.
- Impact Testers, Hardness Testers.
- Dynamic Balancing M/Cs.
- SPMS.



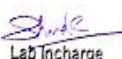
Calibrated By




Ashok Benadi
PHINITEK ENGINEERS

Fig. 6.3.1 h Sample of Calibration Certificate

Arvind Gavali College of Engineering Satara									
Department of Civil Engineering									
Lab Timetable (Even Sem)2022-23									
Sem-Even					Year- 2022-23		Class-TY		
Day/Time	9.30-10.30	10.30-11.30	11.30-12.10	12.30-01.10	1.10-2.10	2.10-3.10	3.10-3.30	3.30-4.30	4.30-5.30
Monday					Mini-Project(TY)				
Tuesday									
Wednesday								TRE PR (SSS) T-2	
Thursday					TRE PR (SSS)T-1				
Friday									


 Lab Incharge


 AMC Co-ordinator

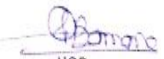

 HOD
 Head Engineering Civil Department
 ARVIND GAVALI COLLEGE OF ENGINEERING SATARA
 Panmolewadi (Varve)

Fig. 6.3.1 j Laboratory Timetable

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
 NAAC Accredited
HISTORY CARD Card No. 01

Name of Department: Civil Engineering Laboratory: Solid Mechanics (009)
 Name of Equipment: Impact Testing Machine Date of Purchase: 22-09-2011
 Total Cost: 96,187/- Name & Address of Supplier: Universal Motion Inc. 208, R. cube, Atul Nagar, Warje, Pune.
 Dead Stock No.: AGCE/2011-12/ITM-05(185)/CE-11/01-01

Sr No.	Bill No. & Date	Nature of Maintenance	Particulars of Maintenance	Name of the Maintenance Party	Expenditure (Rs.)	Sign. of Concerned Staff	HOD Sign
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	188 10-4-23	Regular Maintenance	a) Load Pointer b) Load/Unload lever c) Load striker d) T-spanner e) Load centre gage f) Break Assembly g) Zero calibration	V.R. Engineering Works, Miraj.	16,900/-	Kuldeep	Amro
2							
3							
4							
5							
6							

Fig. 6.3.1 k Maintenance History Card

2) Overall Ambiance:**Equipment:**

1. All laboratories are well furnished with all equipment/ instruments as per requirements of curriculum of courses and to meet the correct performance of the test and measurements.
2. All equipment are maintained in good working condition.

Accommodation and Environment:

1. The laboratories are provided with adequate working space.
2. Do's and Don'ts and Safety measures rules are displayed in each laboratory.
3. Required amount of seating arrangement are provided in instructional area.
4. Laboratory manuals are available in the all laboratories.
5. Sufficient numbers of windows are available for ventilation.
6. Lighting system is very effective, along with the natural light in every laboratory.
7. It is maintained with cleaning, sweeping and washing.

6.4 Project laboratories**(5)**

The project laboratory offers the opportunity to gain valuable hands-on experience with adequate facilities and equipment. Separate Space is provided for project lab & some different equipment are provided for the project work.

a) Advanced Construction Material Laboratory :

Recent trends in construction demands the use of new and sophisticated materials in building construction, road construction and in bridge construction etc. Like variety of tiles which is used for flooring that accommodate the environment conditions like cool in summer days are available in market. Students are need to aware about all this advanced construction materials. Advanced construction material laboratory give access to students to get hands-on experience of all these materials. This laboratory consists of various advanced construction materials. In addition to this students are made to be aware of types of bricks and other construction materials. This laboratory is also helpful in understanding of construction materials which are useful in on site generally.

b) Micro Irrigation Laboratory

1. Field Capacity Kit Fe212 A-field capacity (C_c) corresponds to the superior limit of available water and represents the moisture of the soil after drainage of the water contained in the macropores by gravity action
2. Permanent Wilting Point Kit Fe12 B - The permanent wilting point is the point when there is no water available to the plant.
3. Falling Head Permeability Measure Instrument osk 2796- The falling head permeability test involves flow of water through a relatively short soil sample connected to a standpipe which provides the water head and also allows measuring the volume of water passing through the sample.
4. Slant infiltrometer infiltration Frame Osk 2821-An infiltrometer measures the infiltration of water into a substrate such as soil. Or another definition for an infiltrometer is a measure of the movement of water into, and through, soils.
5. Dielectric automatic Soil Moisture Measuring Instrument Osk 2801- measure the water content in the soil and can be used to estimate the amount of stored water in the soil horizon.

6. Sprinkler Irrigation System Sk 10 L- water is carried is through a network of pipes under medium to high. Pressure and is forced through a nozzle of small diameter and sprayed on the ground or crop. Like a rain.
7. Drip Irrigation System T170-Drip irrigation is the most efficient water and nutrient delivery system for growing crops. It delivers water and nutrients directly to the plant's roots zone,

c) Plumbing Laboratory

1. Hand Drill Machine- Widely used in construction, carpentry, metalworking, assembly, and maintenance
2. Slide Wrench-It used to hold or turn pipes or circular bars.
3. Parrot Plier - to eliminate nut and bolt failure, patented reinforcing edge to minimize stress breakage and laser-hardened teeth to provide a better, longer lasting grip.
4. Wheel Pipe cutter - A wheel pipe cutter (also known as a tubing cutter) is a circular-shaped pipe cutter that utilizes a cutter wheel to cut pipes.
5. CPVC Pipe Cutter- Pipe cutters are tools used for slicing or cutting pipes.
6. Allen Key set - placing one of the ends inside a fastener with a hexagonal socket head and turning it.

d) Safety Laboratory

1. Safety goggles- Safety goggles are the ideal form of lab safety gear for your eyes because they shield both sides of your face to prevent materials from entering your eyes.
2. Safety showers- In the case of hazardous chemicals coming into contact with your skin, it is extremely important to have a way to promptly rinse off the substances. As such, all laboratories should include a safety shower.

3. Lab coat- Long white coats help prevent dangerous liquids and particles from contacting your skin. For ideal protection, lab coats should always be buttoned closed.
4. Protective gloves- When you're working in a lab, your hands are often at the most risk for coming into contact with hazardous chemicals. By wearing suitable protective gloves, you can reduce your risk of injury.
5. Fire extinguishers- Fires can occur whenever electrical equipment and flammable materials are being handled, so a fire extinguisher is a very important piece of lab safety equipment.



Fig.6.4 a Project Demonstration

6.5 Safety measures in laboratories**(10)**

The department has followed all safety rules & regulations as per the norms. The lab In charges & Lab assistant are responsible for providing safety policy in our lab. General safety measures in each lab are mentioned in table no.6.4.

Table 6.4: Details of Safety Measures in Laboratories

Sr. No.	Laboratory Name	Safety Measures
1	Environmental Engineering Lab	<ol style="list-style-type: none"> 1. Do's & Don'ts are displayed in lab. 2. First aid box, are kept in the lab. 3. Safety Postures displayed in the lab. 4. Safety gloves are kept in lab.
2	Building Planning & Design Lab	<ol style="list-style-type: none"> 1. Do's & Don'ts are displayed in lab. 2. First aid box, are kept in the lab. 3. Safety Postures displayed in the lab. 4. Good condition drawing table are kept in lab.
3	Mechanics of Solid Lab	<ol style="list-style-type: none"> 1. Do's & Don'ts are displayed in lab. 2. First aid box, are kept in the lab. 3. Safety Postures displayed in the lab. 4. Wear proper safety shoes in concrete/materials labs. 5. Fire extinguishers are placed in lab. 6. Electrical Safety Instructions are displayed.

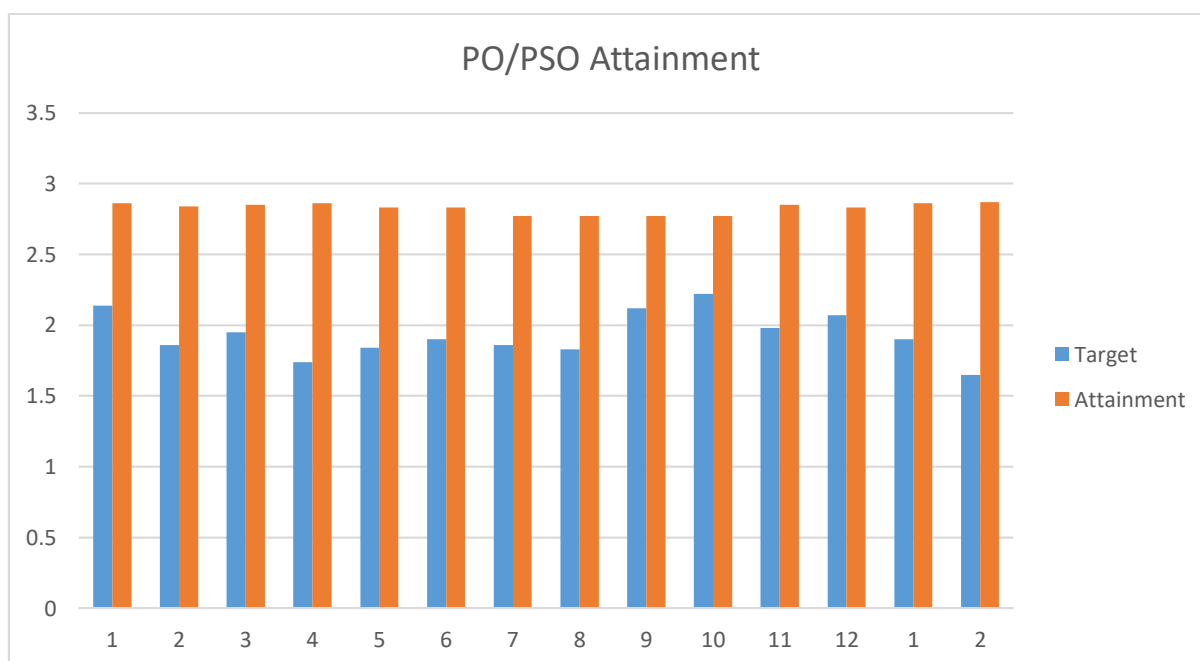
4	Transportation Engineering Lab	<ol style="list-style-type: none"> 1. Do's & Don'ts are displayed in lab. 2. First aid box, are kept in the lab. 3. Safety Postures displayed in the lab 4. Fire extinguishers are placed in lab. 5. Bitumen are handled carefully.
5	Soil Mechanics Lab	<ol style="list-style-type: none"> 1. Do's & Don'ts are displayed in lab. 2. First aid box, are kept in the lab. 3. Safety Postures displayed in the lab 4. Wear proper safety shoes in concrete/materials labs. 5. Fire extinguishers are placed in lab. 6. Hand gloves are kept in lab.
6	Concrete Technology Lab	<ol style="list-style-type: none"> 1. Do's & Don'ts are displayed in lab. 2. First aid box, are kept in the lab. 3. Safety Postures displayed in the lab. 4. Wear proper safety shoes in concrete/materials labs. 5. Hand gloves are kept in lab.
7	Hydraulics Lab	<ol style="list-style-type: none"> 1. Do's & Don'ts are displayed in lab. 2. First aid box, are kept in the lab. 3. Safety Postures displayed in the lab 4. Fire extinguishers are placed in lab

8	Surveying Lab	<ol style="list-style-type: none">1. Do's & Don'ts are displayed in lab.2. First aid box, are kept in the lab.3. Safety Postures displayed in the lab
9	Engineering Mechanics Lab	<ol style="list-style-type: none">1. Do's & Don'ts are displayed in lab.2. First aid box, are kept in the lab.3. Safety Postures displayed in the lab4. Labeling is done on every equipment.

CRITERION 07	CONTINUOUS IMPROVEMENT	50
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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: 2021-22**

	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Target	2.15	1.85	1.99	1.82	1.91	1.95	1.89	1.92	2.14	2.24	2.07	2.09	1.90	1.66
Attainment	2.21	2.03	1.93	1.79	1.83	1.82	1.74	1.76	1.74	1.90	1.97	2.04	2.00	1.68

**Fig. 7.1a PO Target vs. PO Attainment for year 2021**

7.1. Actions taken based on the results of evaluation of each of the COs, POs & PSOs POs Attainment Levels and Actions for improvement (2021-2022)

POs	Target Level	Attainment Level	Observations
PO-1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.			
PO 1	2.15	2.21	<ol style="list-style-type: none"> 1. The technical knowledge acquired by the students in the subject need to be enhanced further. 2. After analyzing results and interacting with students, it was attributed that still they need more practice on design related problems with the help of fundamental knowledge of mathematics and science.
Action Taken: <ol style="list-style-type: none"> 1. Additional guest lectures were conducted to address the technical knowledge required as prerequisite for the subject. 2. Extra classes were conducted to give thorough practice in problem solving. 3. Arrangement of site visit for improvement of technical knowledge. 			

POs	Target Level	Attainment Level	Observations
PO-2. 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.			
PO 2	1.85	2.03	<ol style="list-style-type: none"> 1. Target was reached. 2. Able to understand mix proportioning techniques for field applications.
Action Taken: <ol style="list-style-type: none"> 1. Additional classes were conducted on mix proportioning techniques. 2. Additional workshops were conducted for field applications. 			

POs	Target Level	Attainment Level	Observations
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PO-3. 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.

PO 3	1.99	1.93	1. Difficulty was observed in preparing the drawings and documents for client that details the project scope, quality, and design.
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Action Taken:

1. More number of classes/tutorials were conducted for the courses that contribute the design and development of solutions.
2. Importance was given in the selection of projects that include drawings and design part.

POs	Target Level	Attainment Level	Observations
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PO-4. 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.

PO 4	1.82	1.79	1. Target was exactly reached but needs improvement.
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Action Taken:

1. To improve practical knowledge, hands-on sessions/demonstration classes were conducted before executing the experiment.
2. Conducted industrial visit on new innovative technology in construction field.

POs	Target Level	Attainment Level	Observations
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PO-5. 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.

PO 5	1.91	1.83	<ol style="list-style-type: none"> 1. Target achieved. 2. Usage of additional software's, latest testing tool
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Action Taken:

1. Hands-on session were conducted to learn new tools.
2. Conducted Extra practical session.

POs	Target Level	Attainment Level	Observations
PO-6. 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.			

PO 6	1.95	2.80	1. Target was reached 2. Profession Practice attainment is improve
Action Taken: 1. Expert session on Professional practice were arranged. 2. Students were suggested to emphasize more on social issues in their project work designed to serve society.			

POs	Target Level	Attainment Level	Observations
PO-7. 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.			
PO 7	1.89	1.74	Following is the observation for the difference between attainment and target 1. Students should pay special attention while applying principles of preventive engineering and sustainable development to an engineering activity during lab works and project works
Action Taken: 1. Students were advised to select final year projects that develop an ability to apply principles of sustainable design and development. 2. Use principles of preventive engineering in laboratories to enhance sustainability.			

POs	Target Level	Attainment Level	Observations
PO-8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
PO 8	1.92	1.76	Following are the observations for the difference between attainment and target: 1. A constructive approach of students is required to be developed toward ethical practices in engineering education. 2. Students should pay special attention to ethical practices while doing project works
Action Taken: 1. Additional classes on professional ethics and norms of the engineering practice were conducted. 2. Maximum care was taken to include professional ethics during the execution of project work.			

POs	Target Level	Attainment Level	Observations
PO-9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
PO 9	2.14	1.74	1. Courses like seminar, miniproject, and projects involve individual and team work.
Action Taken: 1. Continues presentations were kept for seminar and project to enhance individual and team work. 2. Students were encouraged to participate more in the activities like NSS and industrial visits etc.			

POs	Target Level	Attainment Level	Observations
PO-10. 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.			
PO 10	2.24	1.90	1. After interacting with students, it was identified that additional focus required on development of communication skills.
Action Taken: 1. Communication Soft Skills (CSS) classes were conducted. 2. Student Association activities were carried out.			

POs	Target Level	Attainment Level	Observations
PO-11. 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.			
PO 11	2.07	1.97	1. It was observed that still few courses are required to be improved.
Action Taken: 1. Focus was given to motivate the students by explaining the importance of doing internship and project work. 2. Awareness on project management was created by forming project assessment and evaluation committee.			

POs	Target Level	Attainment Level	Observations
PO-12. 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.			
PO 12	2.09	2.04	1. Target was reached 2. Through the analysis reports, it is observed that many of the students need to be improved in the knowledge base of the country's engineers and our capacity for innovation and competition.
Action Taken: 1. Pre-requisite topics to ensure the continuity in learning for analytical courses were conducted. 2. Along with the course notes, the video contents were developed to enhance learning experience. Use of online media was encouraged.			

PSOs	Target Level	Attainment Level	Observations
PSO1: Capability of collaborative learning to provide optimal solution to various onsite problems keeping sensitivity towards society and environment.			
PSO 1	1.90	2.00	1. Target was reached 2. It was observed that still few courses required improvement.
Action Taken: 1. More number of classes /tutorials were conducted to strengthen the courses. 2. Conducted workshop on MS office.			
2.			

PSOs	Target Level	Attainment Level	Observations
PSO2: Acquire art of effective communication to pursue lifelong learning and leadership skill at workplace.			
PSO 2	1.66	1.68	1. Target was reached 2. It was observed that still few courses required improvement.
Action Taken: 1. Expert lectures on business communication, and training on software like Primavera (for planning, managing and executing of project work) were conducted. 2. Students were motivated to learn design and analysis software's like STAD PRO and Ansys to work on real life problems during their project work.			

Academic audit and actions taken thereof during the period of assessment (10)

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

I. 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 with HOD 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

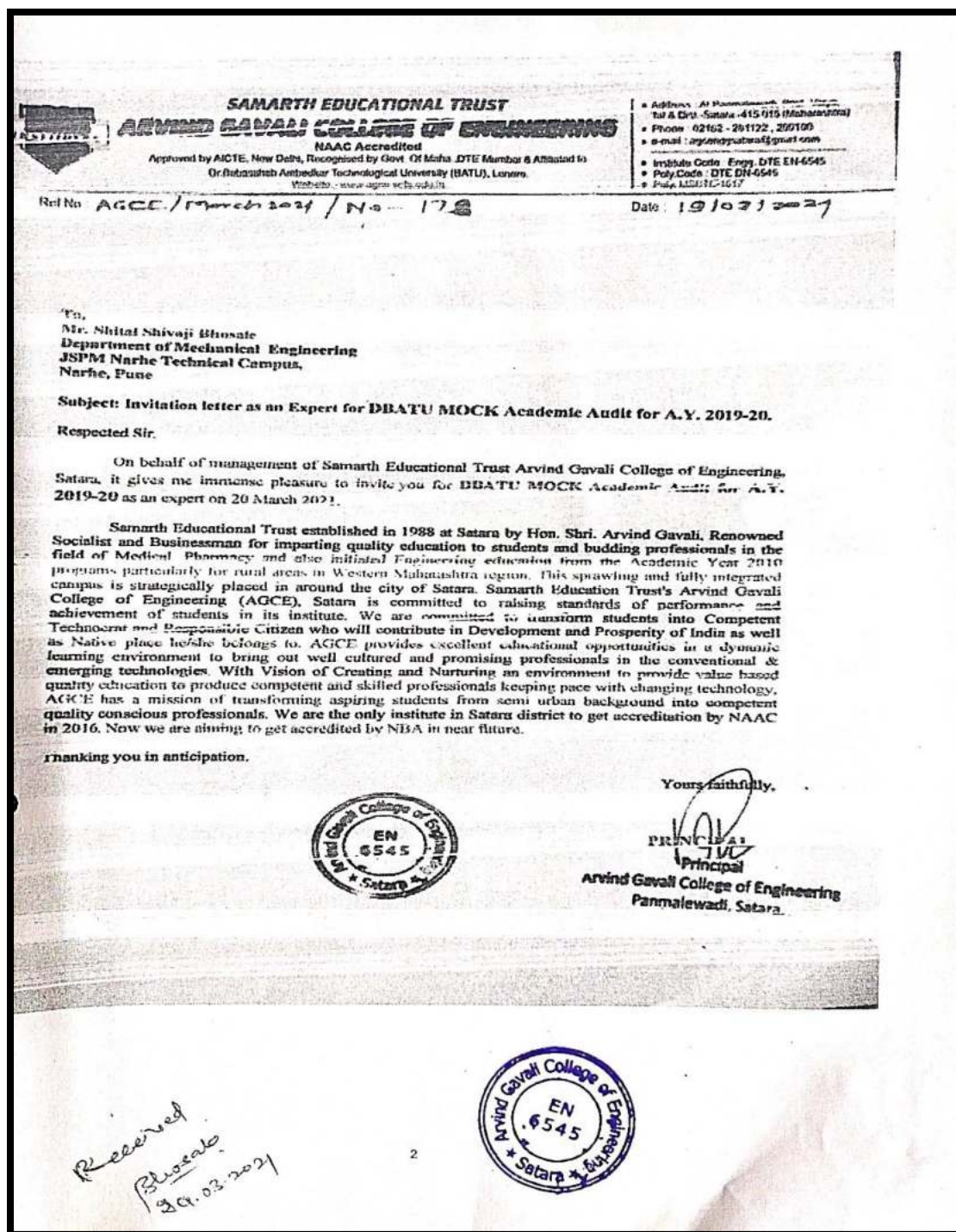


Figure 7.2.a Sample Invitation Letter for External Academic Audit

Dr. Babasaheb Ambedkar Technological University
Academic Audit of Engineering Colleges
Format - II (To be filled individually by Faculty Member)

District: _____

Centre/SubCentre: _____

1	Name of the College and Address	Arvind Gavali College of Engineering, Panmalewadi, Post Varye.		
2	Name of the Faculty Member	DR. R. N. Salunke		
3	Name of the Subject taught during academic year	Surveying (2022-23)		
4	Date of Joining in Degree College / Date of Joining in the present Institution	2022	Date of Retirement:	
S.No.	Activity	Status (Give Details, not just Yes/No)	Supervision of Academic Activities along with grade A/Good/B/ Satisfactory/No (If any) other Observation	Recommendation/Suggestions by Academic Advisors
Curricular Aspects				
5	Annual Curricular plan	Academic calendar attached	A	
6	Curriculum enrichment / Value addition	No	-	
7	Whether conducting Add on Courses & role in conduct of course	NPTEL Record attached	B	
8	Feedback from students	Feedback attached	A	
Teaching, Learning and Evaluation				
9	Teaching Diary & Teaching Plan	Teaching Plan attached	A	
10	Coverage of syllabus so far (%)	Syllabus Report	A	
11	Record of students' attendance	Attendance sheet	A	
12	Use of ICT - PPT & Audio-video Aids	Usage Record attached	B	
13	Record of students assignments	Assignments attached	B	
14	Record of field trips	Field trip Report	A	
15	Record of student seminars conducted	No	-	
16	Record of academic competitions conducted if any (Quiz, Role play)	No	-	
17	Other Student centric learning Methods	No	-	
18	Record of Extension Lectures given	No	-	
19	Record of invited lectures arranged	Guest Lecture Report attached	B	
20	Record of internal examinations and University Exams	Exam Paper & Answer sheet	B	
21	Pass percentage of University Exams / Semester in respective subject for the last three years (paper wise)	University Result attached	A	
22	Record of remedial classes conducted for slow learners	No	-	
Research, Extension and consultancy				
23	Record of Research work (Paper publication, Book publication, Articles)	Research paper attached	B	
24	Record of Student Projects	Project report attached	A	
25	Record of seminars / workshops attended / organized / Papers presented	No	-	
26	Record of extension work undertaken	No	-	
27	Record of MoU's, if any	MoU attached	B	
28	Record of Consultancy work	No	-	

S.No.	Activity	Status (Give Details, not just Yes/No)	Supervision of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (Poor) other Observations	Recommendation/Suggestions by Academic Advisors
Infrastructure and learning Resources				
29	Utilization of Departmental Library	Utilization Record attached	A	
30	Availability of CDs/Videos	No	-	
31	Virtual labs / Open Educational Resources (OERs)	No	-	
	Development of any educational resource	No	-	
Student support and progression				
32	Record of Activities conducted to contribute to the students' career opportunities	No	-	
33	Mentoring / Counselling to students for curricular and co-curricular activities	Gpm Record attached	A	
34	Newspaper clippings or other materials as additional resource	No	-	
	Any Student team project for Technology Development	No	-	
Governance and Leadership				
35	Record of additional administrative responsibilities performed	No	-	
36	Record of innovative practices	No	-	
37	Any outstanding contribution	No	-	
38	Whether above related activities entered in into Departmental Activities Register	No	-	-
39	Maintenance of Departmental Activities Register	Maintained	B	
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 along with documentary Evidences 5. Faculty wise API formats along	Yes. attached.	B.	
	Signature of the Faculty member			Signature of the Principal
	Note: the Format is to be filled by all the faculty and certified by the Principal and submitted to the Academic Audit Team. Head Engineering Civil Department ARVIND GAVALI COLLEGE OF ENGINEERING, Satara Panmalewadi (Varve)			

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

[Signature]
18/11/2022

[Signature]
10/11/22

**Figure 7.2.b Sample Audited Course File Record**

This audit ensures smooth conduction of academics as per targeted plan. Suggestions and corrective actions are given to faculty members as per the check lists. Academic summary report is prepared by departmental academic coordinator and discussed in HOD meeting for further corrective actions. Following are audit outcomes:

- i. Quality assurance in academic monitoring system
- ii. Uniformity in policy implementation throughout the Institution

Areas for improvement are identified and fulfilled

Academic Audit Summary Sheet

Institution/University Department: Arvind gavli College of Engineering, Satara

Program Title: Engineering

Degree Level: Undergraduate

Academic Audit Status: _____ First Academic Audit _____ Second Academic Audit

Evaluation Results

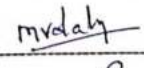
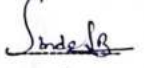

		Met/not met	% achieved
1	LEARNING OBJECTIVES AND RESOURCES		
1.1	The Faculty member has prepared Course Files as per the learning objectives of the program	Met	60
1.2	The Faculty member has shared his course file with the students of the class through Intranet/ Social media or any other means	Met	60
1.3	The faculty member documented specific benchmarks of his course to account for learning objectives	Met	45
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	50
2.2	The faculty member documented a plan for analyzing the course content in terms of achieving program objectives.	Met	55
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	45
3	TEACHING AND LEARNING PROCESSES		
3.1	The faculty member analyzed his/her own methods for improving teaching and learning throughout the program and practiced them.	Met	60
3.2	The faculty member developed and promoted effective instructional methods, other than lecturing, so that student achieve the learning objectives.	Met	65
	The faculty member developed materials for achieving student mastery of learning objectives.	Met	60
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	65
4.2	The faculty member developed techniques, other than written test, for the student learning assessments to improve the program.	Met	60
4.3	The faculty member has documented assessments of student learning	Met	65
4.4	The faculty member has developed measurable indicators of student learning success	Met	60
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	50
4.6	The Student has put in his/her own efforts in the learning process from resources outside the Institute.	Met	55
4.7	The students are challenged enough to use their knowledge creatively	Met	55
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	65
5.2	There is an initiative to understand the parameters of quality of teaching and learning processes, if not existing.	Met	60


1



5.3	There is commitment to making continuous quality improvements in the program a top priority	Met	60
5.4	The performance of students in Internal Assessment and University Examinations is comparable.	Met	60
5.5	There is sufficient feedback obtained from stakeholders in development of academic processes in the College.	Met	60
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	55
6	OVERALL ASSESSMENT		
6.1	The Academic Audit process was Faculty driven.	Met	60
6.2	The Academic Audit process (self-study and visit) included descriptions of the program's quality processes including all five focal areas.	Met	55
6.3	The Audit resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Met	55
6.4	There is openness and thoroughness of the faculty members in completing the academic audit of this program.	Met	60
6.5	The Academic Audit process included involvement of and inputs from stakeholder groups identified by the program's faculty members	Met	65
7	FOLLOW-UP OF PREVIOUS AUDIT		
7.1	An action plan was developed as a result of the previous Academic Audit.		-
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.		-
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.		-
8	SUPPORT		
8.1	The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources.	Met	65
8.2	The program's operating budget is consistent with the needs of the program.	Met	60
8.3	The program has a history of enrolment rates sufficient to sustain high quality and cost-effectiveness.	Met	55
8.4	The program has a history of graduation rate sufficient to sustain the quality of the program.	Met	60
8.5	The program has a history of placement rate sufficient to sustain high quality of program outcome.	Met	45
8.6	The Program has a history of generating support from industries and alumni to sustain itself.	Met	50

Signatures of Academic Advisors

1. Dr. M.V. Dalavi (JSPM Narhe Technical Campus, Pune) 
2. Dr. Sagar Bhilaji Shinde (JSPM Narhe Technical Campus, Pune) 
3. Mr. Shital Shivaji Bhosale (JSPM Narhe Technical Campus, Pune) 


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




Figure 7.2.c Sample Academic Audit Summary Sheet



Fig 7.2d Academic Audit 2021-22 Committee interaction and document



Fig 7.2e Academic Audit 2021-22 Committee visit to the laboratory



Fig 7.3f Academic Audit 2021-22 Committee visit to the laboratory

7.3 Improvement in Placement, Higher Studies and Entrepreneurship**(10)**

☐ 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 construction 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, and TOEFL are available in the library.

In addition, with T&P Cell, institute has initiated Campus to Corporate Activity to help students to 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 entrepreneur development cell (EDC), institute has organized sessions to motivate and guide students to work on ideas in commercial aspect.

Placements, Higher studies and entrepreneurs for academic year 2021-22 to 2018-19 as shown in Table 7.3a.

Items	CAY (2021-22)	CAY (2020-21)	CAYm1 (2019-20)	CAY m2 (2018-19)
No. of final year students (N)	61	63	17	32
No. of students placed (x)	39	62	17	31
% Placement	67%	98%	100%	97%

Table 7.3a Data for Placements, Higher studies and entrepreneurs

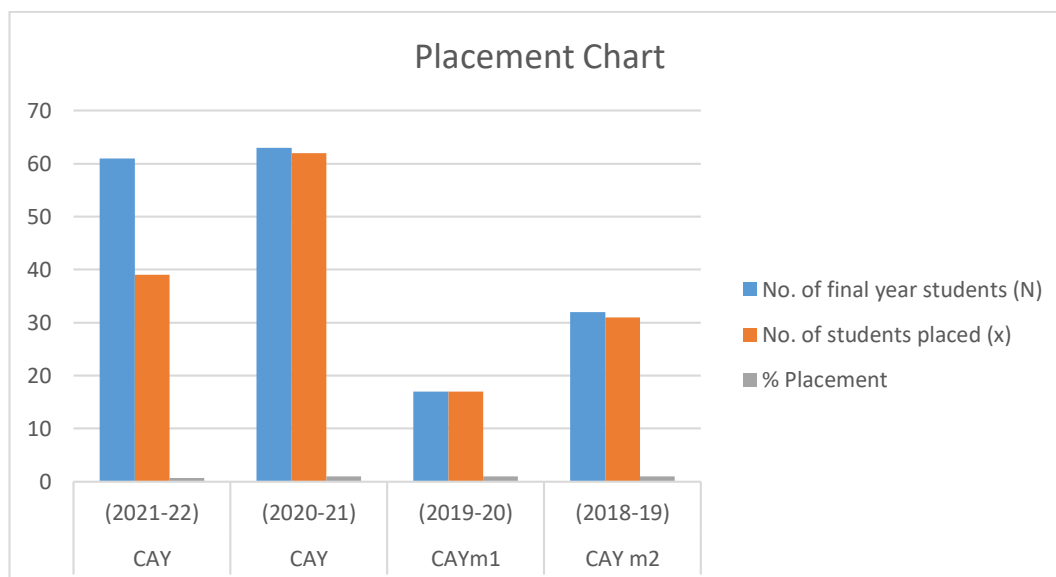


Fig. 7.3a Placement, Higher studies and Entrepreneurs data analysis

Table 7.3.1: List of Companies visited in 2018-19

Sr.No	Name of Company	Number of students Placed
1	Infosys Ltd. Banglore	1
2	Consulting Engineer Group Ltd. Jaipur Rajsthan	1
3	G.S. Group, Karad	1
4	Viraj, TNT, Mumbai	1
5	FEAT Technology Mumbai	1
6	Vistas Corporation, Mumbai	1
7	Jai Kumar, Navi Mumbai	1
8	Alfa Level, Pune	1
9	Rail Vikas Nigam Ltd. Mumbai	1
10	BMC magrpatta, Mulund	1
11	Shriganesh Construction, Satara	1
12	Nirmal Green, Baner, Mumbai	1
13	D.R. Construction, Sangali	1
14	B.J. Shirke, Mumbai	1

15	Infosys, Hingwadi, Mumbai	1
16	Sree Construction, Mulund, Mumbai	1
17	Ramchya Construction, Satara	3
18	ShashikantDhumal, Surveyers, Satara	3
19	Sawant Construction, Satara	2
21	Om Sai Construction, Mumbai	1
22	BMC Mumbai	2
23	Innovative Construction, Satara	1
25	JW Infra, Satara	1

Table 7.3.2: List of Companies visited in 2019-20

Sr.No	Name of Company	Number of students Placed
1	ICICI Bank, Mumbai	1
2	NSIC Developers, Pune	1
3	Shradha Construction, Pune	1
4	Spectrum Industry, Pune	1
5	Rajesh Deshmukh& Associate, Satara	1
6	PanditJawadekar Associate, Pune	1
7	Pharande Spaces, Pune	1
8	P.H. Infra Wakad, Pune	1
9	Om Chidanand Developers Pune	1
10	B.G. Shirke, Hadpsar	1
11	S.D.S. Component design, Pimpri, Pune	1
12	ShashikantDhumal, Surveyers, Satara	1
13	Innovative Construction, Satara	1
14	JW Infra, Satara	1
15	Dhumal Construction, Satara	1

Table 7.3.3: List of Companies in which students placed in 2020-21

Sr.No	Name of Company	Number of students Placed
1	Dimension Construction, Satara	1
2	Utkarsh Pvt. Ltd., Baramati	1
3	Tata Computer Consultancy	1
4	Rigal College, Chiplun	1
5	Dhumal Construction, Satara	1
6	Sathe Group, Pune	1
7	Tricon Infra Build Tech, Ltd.	1
8	Mahesh Patil Construction, Satara	1
9	Infosys Ltd. Pune	1
10	Trimurti Construction, Ashta	1
11	Sugar Mill, Phalton	1
12	Suyog Development Corporation, Satara	1
13	YesarGeomastic Pvt. Ltd. Pune	1
14	Owner Design Studio, Dharwad	1
15	KiranPawar Construction, Ichalkaranji	1
16	SatheConcerteConstrution, Pune	1
17	Buyoji Co. Ltd. Solapur	1
18	Akshai Katkar Associate, Satara	1
19	Stepron Technology, Pune	1
20	Goal Ganga Construction, Pune	1
21	K.B. P. Civil Engg. Services Pune.	2
22	MitraEngg. & Contractor Pune	1
23	SukhvaniChavala Developers, Pune	1
24	Strand Rebar Pune	1

25	Shrinath Construction, Satara	1
26	Max Construction, Mumbai	1
27	Mali Construction, Kavtemahakal	1
28	S.S. Sathe Construction, Pune	1
29	Rail VikasNogma Ltd. Pune	1
30	T&T Infra Ltd. Pune	1
31	Intelligent Design, Pune	1
32	Om Construction Pvt. Ltd. Katraj Pune	1
33	Shrinath Construction, Phalton	1
34	Samarth Construction, Chakan	1
35	Aqua Food Exim Dapoli	1
36	Gaitri Construction, Pune	1
37	PanchyatSamitiKarad	1
38	Rachana Construction Lonawala	1
39	VIT Group, Hingwadi, Pune	1
40	Lodha Group, Mumbai	1
41	Swapnputi Construction, Wai	1
42	Dhumal Construction, Satara	4
43	Innovative Construction, Satara	3
44	JW Infra, Satara	3
45	Ramchaya Construction, Satara	3

Table 7.3.4: List of Companies in which students placed in 2021-22

Sr. No	Name of Company	Number of students Placed
1	Skyline Construction, Satara	11
2	Aerial Mappers, Pune	6
3	A.R. Kulkarni Associate, sangali	2
4	A.S.DESAI INFRA. PVT LTD. SATARA	1
5	S.P. Infra karad prin Pend	1
6	Yessar geomatics Pvt. Ltd, Pune	4
7	Integrum Property Services	1
8	Space Designer, Satara print	1
9	V.S.R. CONSTRUCTION, KAWATEMAHAKAL	1
10	Shankar Kumbhar Interior, satara	1
11	Model Developers, satara	1
12	Meera construction Boriwali print remain	1
13	Delia Decorators, Pashan Pune	1
14	Shiv Construction, Gargoti	1
15	Das Associate, Wai	1
16	Shahikant Dhumal, Surveyer, satara	1
17	Utkarsh Pvt. Ltd.	1
18	Aishwarya Interors Pvt. Ltd.	2
19	A. R. Constructions, Satara print	1

Table 7.3.4: List of Entrepreneurs:

Sr.No	Academic Year	Name of student
1	2018-19	More Pratik Ananda
2		Patil Dnyaneshwar Raghunath
4	2019-20	Mane Sourabh Bajirao
5		Shinde Anupsinh Virsinh
6	2020-21	Kadam Arjun Suresh
7		Lohar Rohit Namdeo
8		Jadhav Rohit Sanjay
10		Mali Eknath Sadashiv
11		Bichukale Suraj Nanaso
12		Randive Amol Sarjerao
13		Jadhav Sanket Shashikant
14		Kadam Arjun Suresh

7.4 Improvement in the quality of students admitted to the program**(10)**

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.

Table 7.4.a Quality of students admitted to the program

ITEM		CAY (2022-23)	CAY (2021-22)	CAY m1 (2020-21)	CAY m2 (2019-20)
National level entrance examination (JEE)	No. of students admitted	--	--	--	--
	Opening score/rank	--	--	--	--
	Closing score/rank	--	--	--	--
State/University level examination /others (MH-CET)	No. of students admitted	3=1+0 Aca+2 EWS	18=5+10Acap +3 EWS	20=14+5 Acap+1EWS	12=10+2cap
	Opening score/rank	38.17/93342	34.27/78145	76.49/33159	80.48/32115
	Closing score/rank	12.75/114757	30.67/80709	58.15/95152	0.59/86958
Name of entrance examination for lateral entry (Direct Second Year: MSBTE Diploma Final Semester)	No. of students admitted	15=(12+3Acap) p)	55=49+6Acap	53=44+8Acap+ 1 EWS	58=56+2cap
	Opening score/rank	73.47/34526	89.37/10166	80.21/25545	82.55/7053
	Closing score/rank	61.41/49218	66.69/62362	55.03/60719	70.42/25985
Average CBSE/Any other board result of admitted students (Physics, chemistry, Maths)		--	--	--	--

CRITERION 08	FIRST YEAR ACADEMICS	50
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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	CJPS9748B	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	Assistant 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	Assistant Professor	01-06-2019	0	100	100	Yes	
Namita Pratik Mahajan	ETRPB8924A	M.Sc	06-06-2019	Chemistry	Assistant	01-11-	0	0	0	Yes	

					nt Pro fess or	202 0					
Priya Yashwant Kuthe	HPUPK34 10K	B.E	21-08- 2017	Chemical	Ass ista nt Pro fess or	12- 10- 202 1	100	100	0	Yes	
Mrs.Rohini Bhosale	ENPPB25 33D	M.Sc	30-07- 2017	Chemistr y	Ass ista nt Pro fess or	21- 07- 202 2	100	0	0	yes	
Tejaswini Dnyaneshwar Jadhav	BUIPJ124 3D	M.Sc	24-10- 2020	Physics	Ass ista nt Pro fess or	17- 03- 202 1	0	100	0	No	31/06/2 022
Kanchan Sanjay Mahamuni	EHFPM55 40B	M.Sc	24-10- 2020	Physics	Ass ista nt Pro fess or	17- 03- 202 1	100	100	0	No	31/06/2 023
Ashwini Ankush Babar	AQSPB85 46L	M.Sc	11-06- 2010	Physics	Ass ista nt Pro fess or	01- 06- 201 9	0	0	100	No	31/10/2 021
Dr. Nitin Ramchandra Jadhav	AGSPJ22 78D	M.A	07-03- 2020	ENGLIS H	Ass ista nt Pro fess or	02- 07- 202 0	100	100	100	Yes	
Nikita Sanjay Bhilare	FBDPB77 35Q	M.A SET	09-07- 2019	English	Ass ista nt Pro fess or	16- 03- 202 1	100	100	0	Yes	
Thoravi Rahul Yadav	BLVPM6 822M	MA	10-07- 2008	ENGLIS H	Ass ista nt Pro fess or	01- 06- 201 9	0	0	100	No	30-04- 2021
Aanand Sudhir Shivde	CCLPS61 18J	M.E.	30-09- 2014	Mechani cal	Ass ista nt Pro fess or	06- 01- 201 9	0	0	100	No	31-07- 2021
Kamlesh Kumawat	ENEPK18 12H	M.E.	20-10- 2016	Mechani cal	Ass ista nt Pro f.	03/ 07/ 201 7	0	0	100	No	31/3/20 21
Mr.Amol Ghorpade	BTDPG59 46C	M.E.	10/10/2 017	Mechani cal	Ass ista nt	1/1 0/2 1	100	100	0	No	2/5/202 3

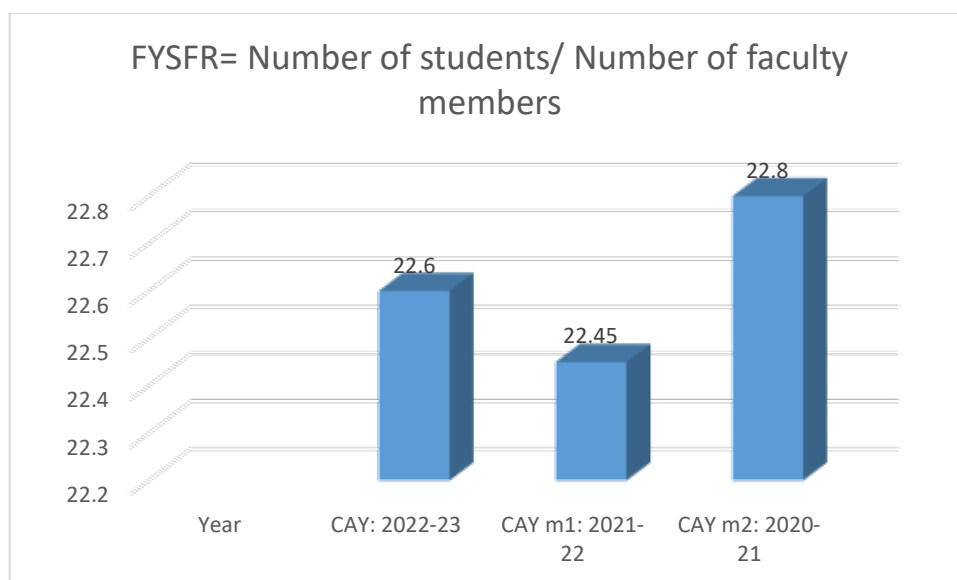
					Pro f						
Pratik Manohar Tambe	AXPPT2681Q	M.E	31-07-2017	Mechanical	Ass ista nt Pro fess or	01-07-2019	100	100	0	No	31-12-2022
Pranav Avinash Pathak	BFAPP7243G	M.E.	20-10-2016	CSE	Ass ista nt Pro fess or	22-08-2011	22	35	38	Yes	
Gujar Vijay Bhanudas	AMEPG4168K	M.E.	22/02/2011	CSE	Ass ista nt Pro fess or	1/11/2020	15	0	0	Yes	
Suraj Shivaji Shinde	EKQPS2010J M.E/M.Tech	M.E.	12-12-2018	Civil	Ass ista nt Pro fess or	02-12-2021	55	50	0	No	31/05/2023
Abhay V.gujar	ABPPG5152M	M.E.	26-06-1994	Civil	Ass ista nt Pro f.	25/06/2010	0	0	75	Yes	
Sapkal Rajendra	BNHPS3023E	M.E.	25/06/2013	Civil	Ass ista nt Pro fess or	1/06/2016	50	0	0	Yes	
Diksha Sanjay Jadhav	BGXPI6890B	M.Tech	01-06-2019	Civil	Ass ista nt Pro fess or	22-07-2019	0	0	19	Yes	
Kolekar A.B.	GDSPK1558L	M.Tech	18/01/2019	Civil	Ass ista nt Pro fess or	1/06/2019	0	0	86	No	1/05/2021
Dr. Prashant Ramesh Bamane	BHXPB5112K	PhD.M.E.	24-12-2014	Civil	Ass oci ate Pro fess or	01-09-2021	81	72	0	Yes	
Vishal Sharad Hingmire	AEBPH8372K	M.E.	23-11-2013	E & TC	Ass ista nt Pro fess or	12-02-2011	17	13	0	Yes	
Dr.Shinde Deepali	CBQPS4461N	PhD	24/09/2015	E & TC	Ass oci ate Pro	15/02/2023	20	0	0	Yes	

					fess or						
Rahul Prakash Sakhare	FCOPS84 16K	MTech	05-06- 2017	E & TC	Ass ista nt Pro fess or	07- 01- 201 9	0	0	29	Yes	

8.1 First Year Student-Faculty Ratio (FYSFR)**(05)**Assessment = $(5 \times 20) / \text{Average FYSFR (Limited to Max. 5)}$

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 = $(05 \times 20) / \text{Average FYSTR}$			4.42

Graphical Presentation of First Year Student Faculty Ratio



8.2. Qualification of Faculty Teaching First Year Common Courses (05)

Assessment of qualification = $(5x + 3y)/RF$,

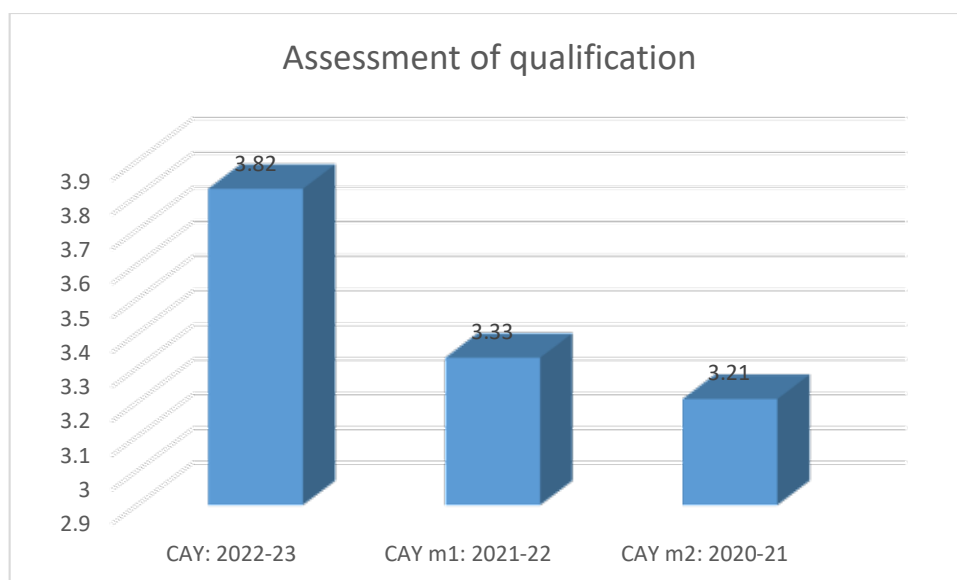
x = Number of Regular Faculty with Ph.D,

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				Average Assessment of Qualification

Graphical Presentation of Assessment of Qualification:



8.3. First Year Academic Performance

(10)

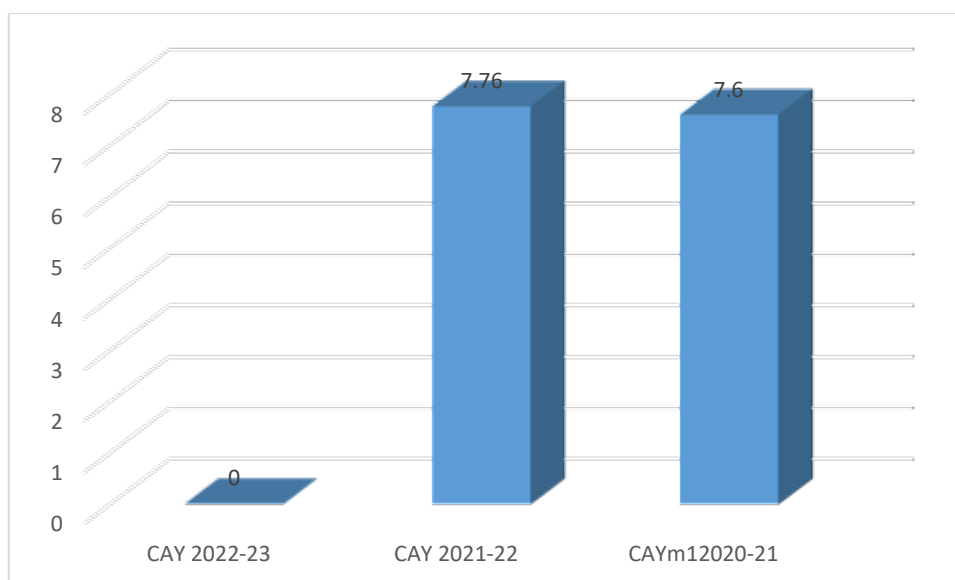
Academic Performance (AP) = (Mean of the percentage of marks in First Year of all successful students/10) x (number of successful students/number of students appeared in the examination)

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 (E & TC)	Mean of the % marks of successful student X	X/10	Total Successful students y	Total Appeared Students Z	AP	AVE. API
2021-22	0	0	1	3	0	5.12
2020-21	77.6	7.76	9	9	7.76	
2019-20	76	7.6	13	13	7.6	

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 (05)

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 (05)

For Electronics and Telecommunication 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->67 - 100% student score Level 2- 55 - 66% student score Level 1- 40 - 54% student score
2	CA Test	Level 3->67 - 100% student score Level 2- 55 - 66% student score Level 1- 40 - 54% student score
3	MSE	Level 3->67 - 100% student score Level 2- 55 - 66% student score Level 1- 40 - 54% student score
4	LAB	Level 3->80 - 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 (Civil)

Course Code	Course	CO1	CO2	CO3	CO4
BTBS101	Engg. Mathematics-I	0.70	0.75	0.75	0.60
BTBS102	Engg. Physics	0.90	0.85	1.02	1.10
BTES203	Engg. Graphics	2.70	2.80	2.78	2.70
BTHM104	Communication Skill	2.10	2.15	2.20	2.20
BTES105	Energy and Environment Engg.	1.60	1.70	1.53	1.50
BTBS102L	Engineering Physics lab	2.00	1.40	2.00	1.40
BTES106	Basic Electrical and Electronics Engg. (Audit sub)	2.80	2.40	2.70	2.70
BTES108L	Engineering Mechanics Lab	2.00	2.00	2.60	2.60
BTES108L	Engineering Graphics Lab	2.00	2.00	2.00	2.00
BTHM109L	Communication Skills Lab	2.00	2.00	2.00	2.00
BTBS201	Engg. Mathematics-II	0.70	0.70	0.80	0.80
BTBS202	Engg. Chemistry	0.90	1.00	0.47	1.00
BTES203	Engg. Mechanics	1.00	0.90	0.75	0.50
BTES204	Computer Programming in C	1.00	0.92	0.95	0.70
BTES205	Workshop Practice	2.00	2.00	2.00	2.00

BTES206	Basic Civil and Mechanical Engineering(audit sub)	2.90	2.90	2.80	3.00
BTBS107L	Engineering Chemistry Lab	2.60	2.00	2.00	1.40
BTES210S	Seminar	2.00	2.00	2.00	2.00

Core Science and Engineering CO-PO Attainment 2021-22 (Civil Engineering)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
M1	0.35	0.81	0.72	0.65		0.33					0.75	0.56	0.56	0.34
CHEM	0.90	0.22				0.11	0.44		0.22					
MECHANICS	1.75	2.00	2.67	1.67	1.00	2.50	1.67					2.25	1.25	1.33
Comp Prog In C	1.30	1.08	1.30	0.87	1.08							0.87		
BEEE	1.80					1.36	1.14						0.28	
Engg Chem Lab	1.68	0.71				0.18	0.79		0.36					
Engg Mech Lab	1.33	1.66	2.13				1.28					1.73	0.94	1.00
Workshop	1.05				1.61				0.70	0.35			0.17	
M2	0.56	0.84	0.75	0.76		0.38					0.75	0.55	0.55	0.39
Phy	0.77	0.77	0.77	1.15		1.15	1.15					0.77	0.38	
Graphics	2.71	2.71	1.60	1.80	2.74		2.03		1.89	1.81	1.82	1.13	2.71	0.90
Comm skills					0.73			1.14	1.89	2.04		1.46		
EEE	1.40		1.40		1.19		1.78		1.27	1.17		1.55	1.27	
BCME	0.73	1.41	0.94	0.94	0.63					1.32	0.97	0.98	1.46	0.96
Phy lab	1.43	1.43	1.43	2.14		2.14	2.14					1.43	0.71	
Gaphics lab	0.52	1.38	0.69			0.17			0.69	0.69		0.69	1.03	0.69
Comm skills lab					0.71			1.06	1.78	1.95		1.43		
Seminar									1.89	1.89		1.23	0.71	0.70

PO levels set and achieved Attainment:

	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	1.26	1.14
year 21-22	1.22	1.25	1.31	1.25	1.21	0.92	1.38	1.10	1.19	1.40	1.07	1.19	0.93	0.79

8.5.2. Actions taken based on the results of evaluation of relevant POs (05)**Academic Year-2021-22****POs Attainment Levels and Actions for Improvement- (2021-22)**

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.00	1.22	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	1.25	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	2.82	Target is not attained <ul style="list-style-type: none"> ● 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	2.14	1.31	Target is not attained <ul style="list-style-type: none"> ● 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 1. 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	2.44	1.25	Target is not attained <ul style="list-style-type: none"> ● 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	0.92	Target is not attained <ul style="list-style-type: none"> ● 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	1.38	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	1.10	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	1.19	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	1.40	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	1.07	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	1.19	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
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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 in securities about their abilities as an engineering student and encouraged them to prepare for the next steps in their academic program and career.

ENGINEERING EN 6545 B.Tech.		
Choice Code	Course Name	Intake
654561210	Mechanical Engineering	90
654537210	Electronics & Telecommunication Engg.	30
654524210	Computer Science & Engineering	120
654529310	Electrical Engineering	30
654519110	Civil Engineering	60

POLYTECHNIC EN 6545 Diploma		
Choice Code	Course Name	Intake
654561220	Mechanical Engineering	60
654537220	Electronics & Telecommunication Engg.	60
654524210	Computer Science & Engineering	60
654599910	Computer Engineering	60
654519110	Civil Engineering	60

ENGINEERING EN 6545 M.Tech.		
Choice Code	Course Name	Intake
654559610	Mechanical Heat Power Engineering	18

B. VOCATIONAL DEGREE PROGRAMS (B.Voc)		
Course Name	Data Science	Industrial Automation
	Software Development	Industrial Tool Mfg.

SCIENCE COLLEGE (11th & 12th)
PCMB + Computer Science Course (IT)

PERSONAL DETAILS (2022-23)

Name of Student :- Gaikwad Sayali Anil
 Address :- A1 Post - Kondave
 Tal - Dist - Satara
 Student Mobile No:- 9850435204
 Parent Mobile No:- 9881660598
 Parents Occupation:-
 E-mail:- gaikwad.sayali.2017@gmail.com
 Branch :- Civil
 Blood Group:- B+ve
 Class :- TY
 Roll No:- 8029
 GFM Name :- Mr. Tambali
 GFM Mob No:- 97716874816

Note: ♦ Students having attendance more Institute Scholarship.
 ♦ Laptop / Tablets are allowed during purpose.



9.1 a: GFM Diary

Institute Vision	
To be prominent institution by imparting value added quality education that creates professional technocrats as well as entrepreneurs through lifelong learning to accomplish socio-environmental needs.	

Institute Mission	
To enrich competency among technocrats by imparting technical, innovative and managerial skills.	
To educate students for effective problem solving and continual progress for dynamic careers.	
To create social & environmental awareness among students and public at large.	

Institute Core Values	
<ul style="list-style-type: none"> • Global competence. • Excellence. • Professional Ethics. • Social Responsibility. • Accountability & Transparency • Use of Technology 	

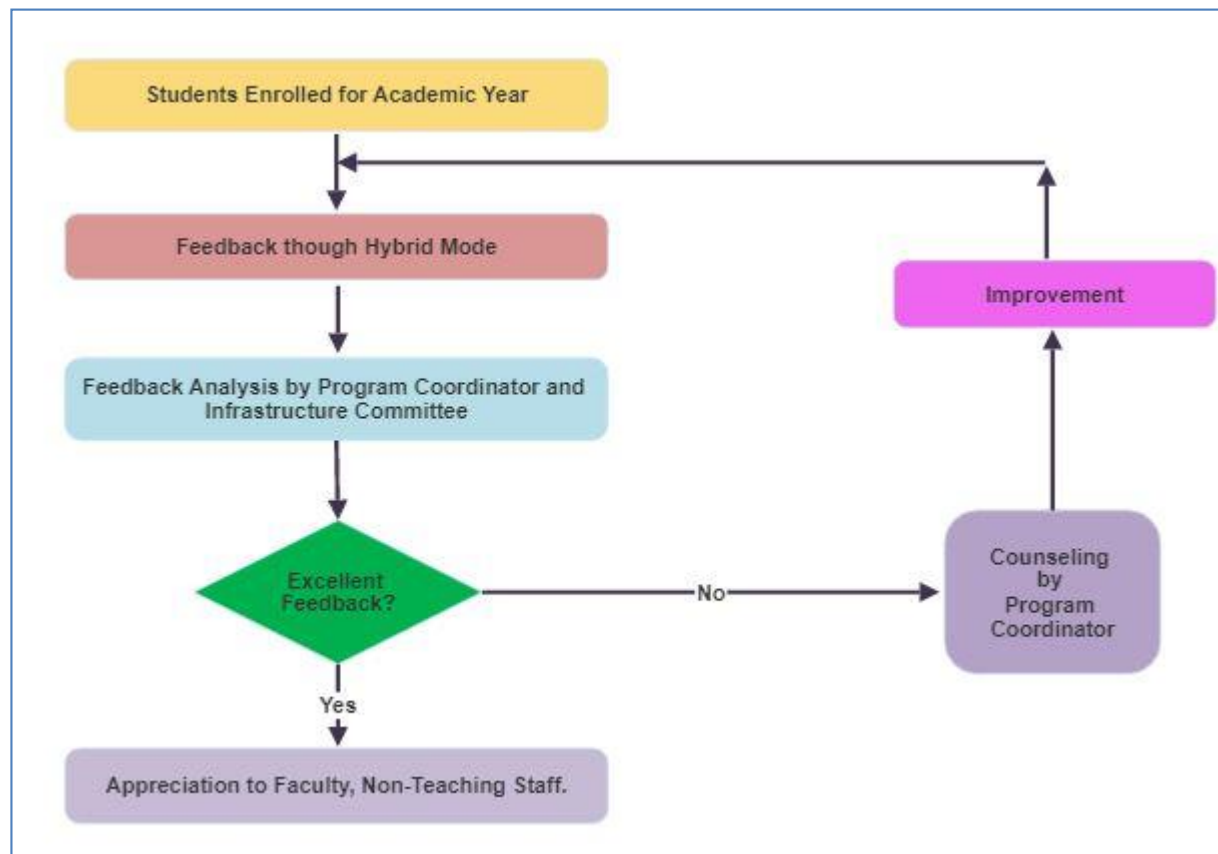
SWOC Analysis	
Strength 1) - good at 2) understanding 3) - good at 4) drawing 5)	Weakness 1) Speaking 2) English 3) Confidence 4) 5)
Opportunities 1) want to 2) get government 3) job or 4) 5)	Challenges 1) - Complete 2) degree 3) - Learn almost 4) all software 5) used in civil engg

GFM Remark: *Butt...* Sign: _____

Fig. 9.1.b: 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:**Fig.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 / GoogleForm) 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

Arvind Gavali College of Engineering, Satara Department of Civil Engineering

Final Year Feedback

Month- Nov/Dec 2022-23

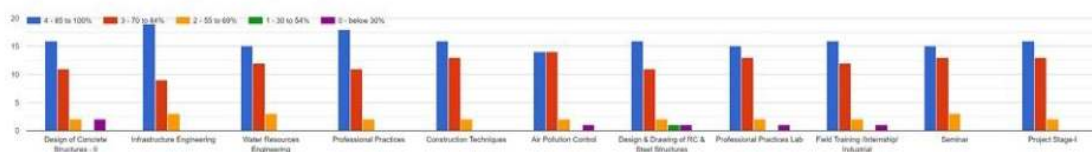
Total Responses:-35

Total Class Strength-65

Feedback Percentage:-54%

1. How much syllabus was covered in the class?

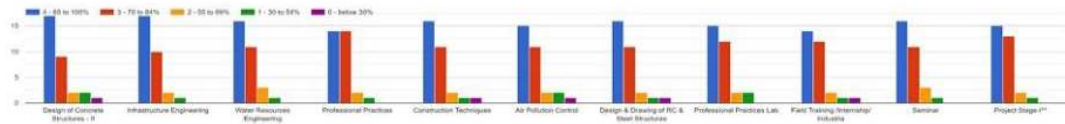
1. How much of the syllabus was covered in the class:



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	16	19	15	18	16	14	16	15	16	15	16	55.31
70 to 84%	11	9	12	11	13	14	11	13	12	13	13	41.49
55 to 69%	2	3	3	2	2	2	2	2	2	3	2	7.86
30 to 54%	2	0	0	0	0	1	1	1	1	0	0	1.89
below 30%	0	0	0	0	0	0	1	0	0	0	0	0.31

2. How well teachers are prepared for the classes?

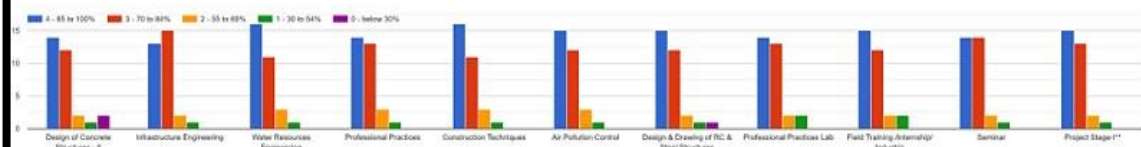
2. How well did the teachers prepare for the classes?



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	17	17	16	14	16	15	16	15	14	16	15	53.74
70 to 84%	9	10	11	14	11	11	11	12	12	11	13	39.29
55 to 69%	2	2	3	2	2	2	2	2	2	3	2	7.54
30 to 54%	2	1	1	1	1	2	1	2	1	1	1	4.40
below 30%	1	0	0	0	1	1	1	0	1	0	0	1.57

3. How well were the teachers able to communicate

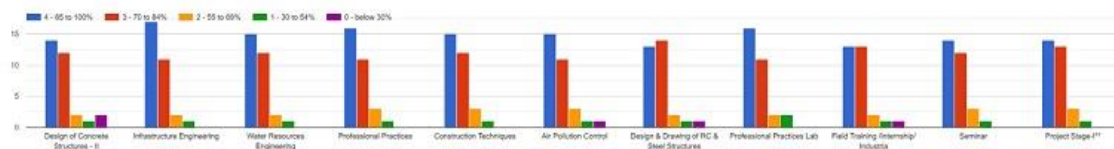
3. How well were the teachers able to communicate



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	13	16	14	16	15	15	14	15	14	15	50.60
70 to 84%	12	15	11	13	11	12	12	13	12	14	13	43.37
55 to 69%	2	2	3	3	3	3	2	2	2	2	2	8.17
30 to 54%	1	1	1	1	1	1	1	2	2	1	1	4.09
below 30%	2	0	0	0	0	0	1	0	0	0	0	0.94

4. The teachers' approach to teaching can best be described as:

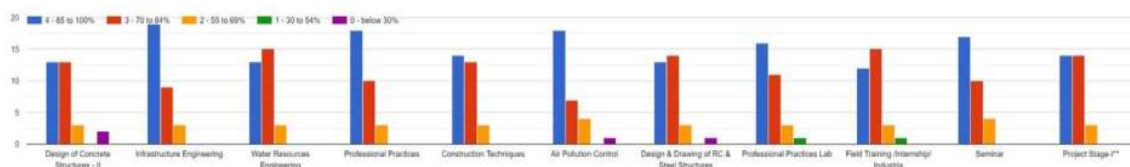
4. The teachers' approach to teaching can best be described as:



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	17	15	16	15	15	13	16	13	14	14	50.91
70 to 84%	12	11	12	11	12	11	14	11	13	12	13	41.49
55 to 69%	2	2	2	3	3	3	2	2	2	3	3	8.49
30 to 54%	1	1	1	1	1	1	1	2	1	1	1	3.77
below 30%	2	0	0	0	0	1	1	0	1	0	0	1.57

5. Fairness of the internal evaluation process by the teachers

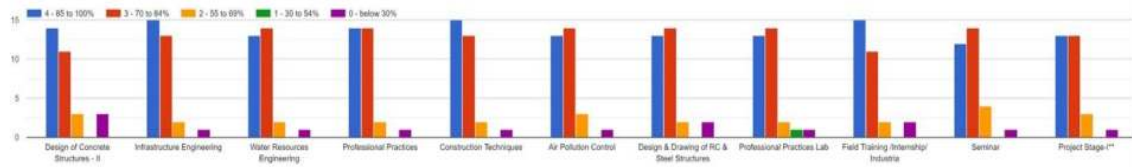
5. Fairness of the internal evaluation process by the teachers:



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	19	13	18	14	18	13	16	12	17	14	52.49
70 to 84%	13	9	15	10	13	7	14	11	15	10	14	41.17
55 to 69%	3	3	3	3	3	4	3	3	3	4	3	11.00
30 to 54%	2	0	0	0	0	1	1	1	1	0	0	1.89
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

6. Was your performance in assignments/extra practice test discussed with you?

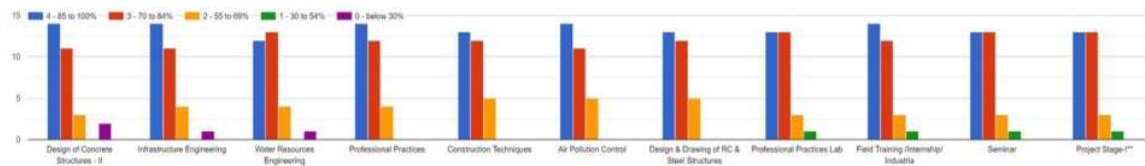
6. Was your performance in assignments/extra practice test discussed with you?



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	15	13	14	15	13	13	13	15	12	13	47.14
70 to 84%	11	13	14	14	13	14	14	14	11	14	13	45.57
55 to 69%	3	2	2	2	2	3	2	2	2	4	3	8.49
30 to 54%	3	1	1	1	1	1	2	1	2	1	1	4.71
below 30%	0	0	0	0	0	0	0	1	0	0	0	0.31

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

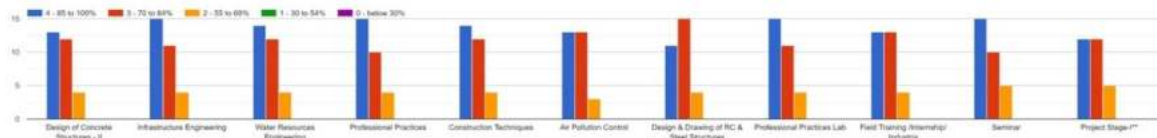
7. The faculty takes active interest in promoting internship, student exchange, field visit opportunities for students. *



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	14	12	14	13	14	13	13	14	13	113	77.63
70 to 84%	11	11	13	12	12	11	12	13	12	13	13	41.80
55 to 69%	3	4	4	4	5	5	5	3	3	3	3	13.20
30 to 54%	2	1	1	0	0	0	0	1	1	1	1	2.51
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

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

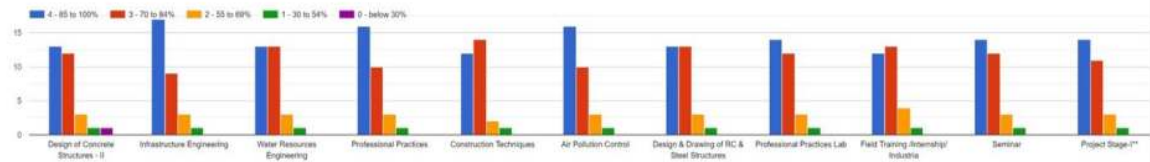
8. The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	15	14	15	14	13	11	15	13	15	12	47.14
70 to 84%	12	11	12	10	12	13	15	11	13	10	12	41.17
55 to 69%	4	4	4	4	4	3	4	4	4	5	5	14.14
30 to 54%	0	0	0	0	0	0	0	0	0	0	0	0
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

9. The institute provides multiple opportunities to learn and grow

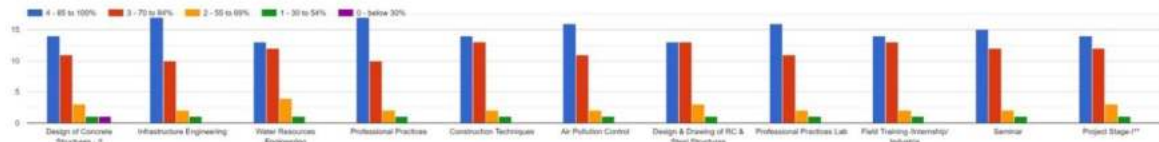
9. The institute provides multiple opportunities to learn and grow



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	17	13	16	12	16	13	14	12	14	14	48.40
70 to 84%	12	9	13	10	14	10	13	12	13	12	11	40.54
55 to 69%	3	3	3	3	2	3	3	3	4	3	3	10.37
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	0	0	0	0	0	0	0.31

10. Teachers inform you about your expected competencies, course outcomes, and program outcomes

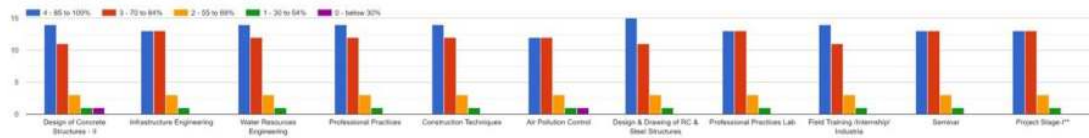
10. Teachers inform you about your expected competencies, course outcomes, and program outcomes



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	17	13	17	14	16	13	16	14	15	14	51.23
70 to 84%	11	10	12	10	13	11	13	11	13	12	12	40.23
55 to 69%	3	2	4	2	2	2	3	2	2	2	3	8.49
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	0	0	0	0	0	0	0.31

11. Your mentor does a necessary follow-up with as assigned task to you

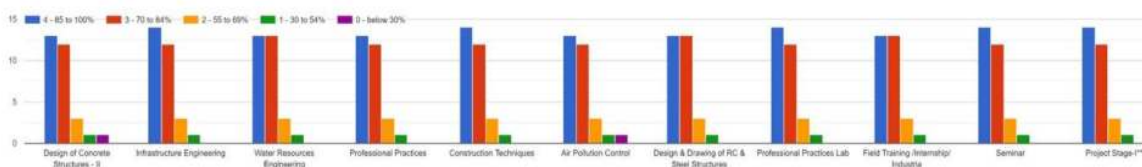
11. Your mentor does a necessary follow-up with as assigned task to you



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	13	14	14	14	12	15	13	14	13	13	46.83
70 to 84%	11	31	12	12	12	12	11	13	11	13	13	47.46
55 to 69%	3	3	3	3	3	3	3	3	3	3	3	10.37
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	1	0	0	0	0	0	0.63

12. The teacher illustrates the concepts through examples and applications

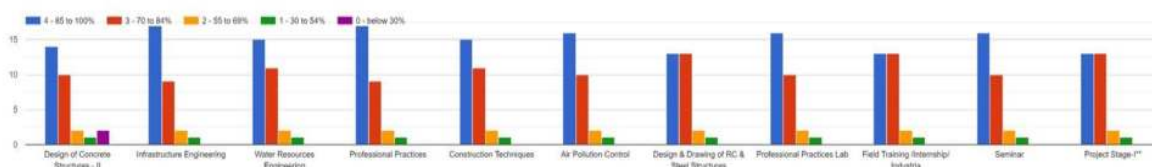
12. The teacher illustrates the concepts through examples and applications



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	14	13	13	14	13	13	14	13	14	14	46.51
70 to 84%	12	12	13	12	12	12	13	12	13	12	12	42.43
55 to 69%	3	3	3	3	3	3	3	3	3	3	3	10.37
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	1	0	0	0	0	0	0.63

13. The teacher identifies your strengths and encourage you with providing right level of challenges

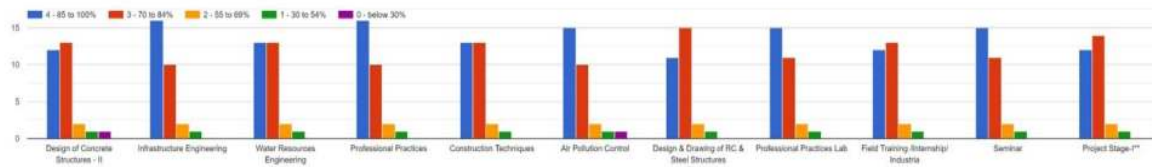
13. The teacher identifies your strengths and encourage you with providing right level of challenges



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	17	15	17	15	16	13	16	13	16	13	51.86
70 to 84%	10	9	11	9	11	10	13	10	13	10	13	37.40
55 to 69%	2	2	2	2	2	2	2	2	2	2	2	6.91
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	2	0	0	0	0	0	0	0	0	0	0	0.63

14. Teachers are able to identify your weaknesses and help you to overcome them

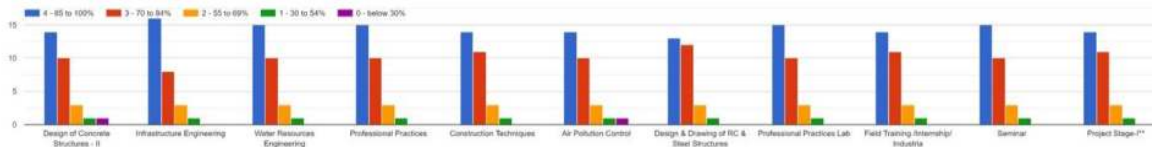
14. Teachers are able to identify your weaknesses and help you to overcome them



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	12	16	13	16	13	15	11	15	12	15	12	47.14
70 to 84%	13	10	13	10	13	10	15	11	13	11	14	41.80
55 to 69%	2	2	2	2	2	2	2	2	2	2	2	6.91
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	1	0	0	0	0	0	0.63

15. The institution makes effort to engage students in the monitoring, review and continuous quality

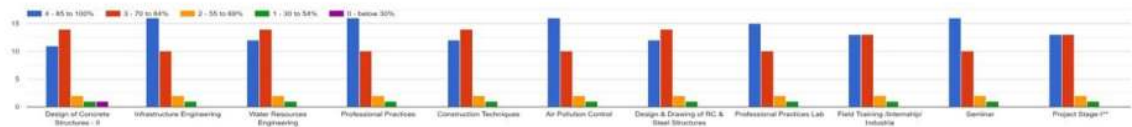
15. The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	14	16	15	15	14	14	13	15	14	15	14	49.97
70 to 84%	10	8	10	10	11	10	12	10	11	10	11	35.51
55 to 69%	3	3	3	3	3	3	3	3	3	3	3	10.37
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	1	0	0	0	0	0	0.63

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

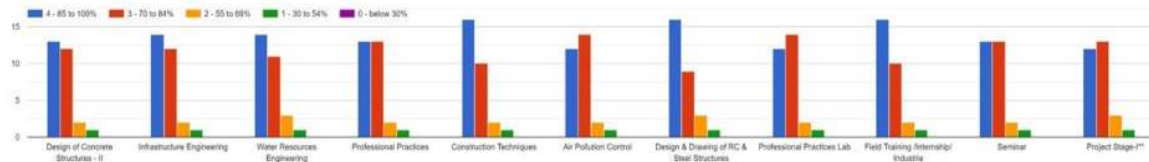
16. The institute/ teachers use student-centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	11	16	12	16	12	16	12	15	13	16	13	47.77
70 to 84%	14	10	14	10	14	10	14	10	13	10	13	41.49
55 to 69%	2	2	2	2	2	2	2	2	2	2	2	6.91
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	0	0	0	0	0	0	0.31

17. Teachers encourage you to participate in extracurricular activities.

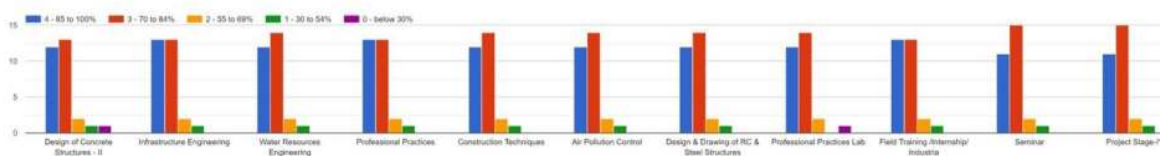
17. Teachers encourage you to participate in extracurricular activities.



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PRO12	%
85 to 100%	13	14	14	13	16	12	16	12	16	13	12	47.46
70 to 84%	12	12	11	13	10	14	9	14	10	13	13	41.17
55 to 69%	2	2	3	2	2	2	3	2	2	2	3	7.86
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

18. Efforts are made by teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work

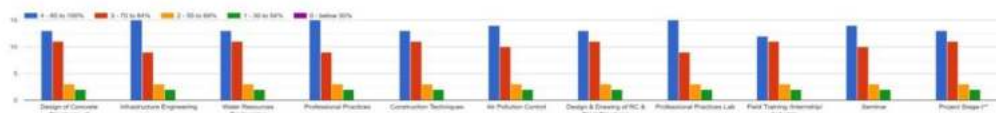
18. Efforts are made by teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work



Subject	DCS-II	INFR A	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	12	13	12	13	12	12	12	12	13	11	11	41.80
70 to 84%	13	13	14	13	14	14	14	14	13	15	15	47.77
55 to 69%	2	2	2	2	2	2	2	2	2	2	2	6.91
30 to 54%	1	1	1	1	1	1	1	1	1	1	1	3.46
below 30%	1	0	0	0	0	0	0	0	0	0	0	0.31

19. What percentage of teachers use ICT tools such as LCD projector, Multimedia, etc while teaching

19. What percentage of teachers use ICT tools such as LCD projector, Multimedia, etc while teaching



Subject	DCS-II	INFRA	WRE	PP	CT	APC	DDSS Lab	PP Lab	INTER	SEMI	PROJ	%
85 to 100%	13	15	13	15	13	14	13	15	12	14	13	47.14
70 to 84%	11	9	11	9	11	10	11	9	11	10	11	35.51
55 to 69%	3	3	3	3	3	3	3	3	3	3	3	10.37
30 to 54%	2	2	2	2	2	2	2	2	2	2	2	6.91
below 30%	0	0	0	0	0	0	0	0	0	0	0	0

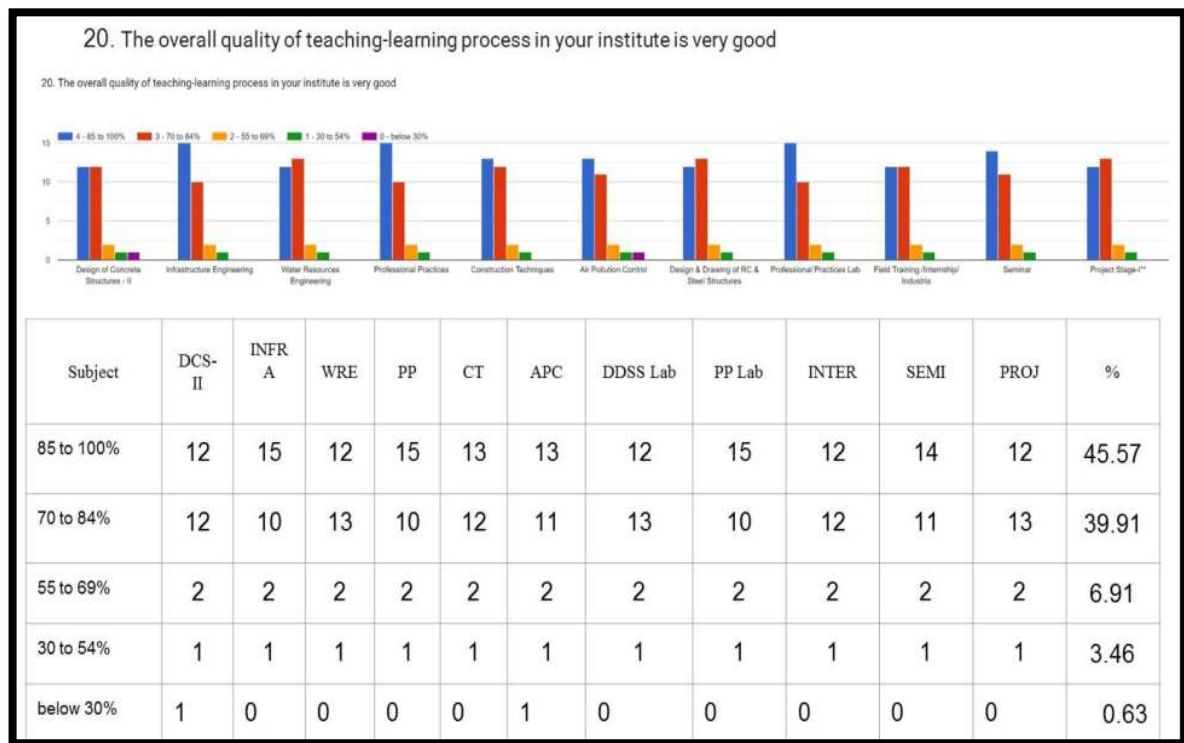


Fig. 9.2.b: Feedback Collection

Students Feedback Analysis procedure

The staff appraisal committee members at program level collect 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.

Overall Analysis				
Subject	Faculty	Avg. %	Appreciation	Suggestion for Improvement
Design of Concrete Structures - II	Dr.P.R.Bamane	86%	Satisfactory design examples given to students	Provide notes on time
Infrastructure Engineering	Ms. D.S. Jadhav	86%	Explanation method and providing notes on time	Provide important questions
Water Resources Engineering	Mr. M.S. Shikalgar	87%	Syllabus Coverage	Provide information according to competitive exam
Professional Practices	Mr.R.N.Sakpal	86%	Teaching Method	Provide PPT and Videos
Construction Techniques	Mr.R.N.Sakpal	86%	Concept clearance	Explain future scope of subject to students


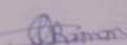
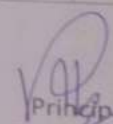

 Head Engineering Civil Department
 ARVIND GAVALI COLLEGE OF ENGINEERING, Satara
 Panmalewadi (Vasra)

Fig. 9.2.c: Feedback Analysis

Action Taken				
Subject	Faculty	Suggestions for improvement	Action	Remark of HOD
DCS-II	PRB	Provide more notes	material is uploaded on mobile	Faculty uploaded notes on mobile
INFRA	DSJ	—	—	—
WRE	MSG	—	—	—
PP	RNS	use of ICT tools	Should provide PPTs	PPTs should give & show videos
CT	RNS	—	—	—
APC	DSJ	Provide notes on time	material should upload on mobile	Faculty must upload notes on mobile
DCS-LAB	MSG	—	—	—
PP LAB	DSJ	—	—	—


 HOD


 Principal
 Dr. Vilas Pharande
 Principal
 Arvind Gawali College of Engineering,
 Panmalewadi, Satara




Fig. 9.2.d: Corrective Action Taken

Corrective Measures:**Table9.2.a:Year-wise corrective measure data**

Academic Year	Suggestion recognized through Feedback Process	Corrective actions taken
2022-23	Students Demand Internship for second year & third year students	<ul style="list-style-type: none"> ● Institute provide the industry for various Company
2021-22	Students demand for Practical based Learning.	<ul style="list-style-type: none"> ● Emphasis is given on Project Based Learning (IOT Projects + Projects involved for Seminar Course)
2020-21	Organize soft skill development program	<ul style="list-style-type: none"> ● Separate Slot for Soft skill Session (Campus to Corporate) is allotted in Timetable.
2019-20	Technical Training Program should be organized.	<ul style="list-style-type: none"> ● 4 Weeks Industry Training Program(Yugam Event) conducted for CNC,UG NX,SUPRA BAJA Designing Domains.
2018-19	More Usage of ICT TOOLs for Teaching Learning Process.	<ul style="list-style-type: none"> ● 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.

9.3 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 Maharashtra, DTE Mumbai & Affiliated to
 Shivaji University, Kolhapur & Dr. Babasaheb Ambedkar Technological University (BATU), Lonere.
 Website: www.agce.sets.edu.in

Address : Al Panvel Road, Post-Narye,
 Tal & Dist-Satara-415 015 (Maharashtra)
 Phone : 02162-200100
 Tele Fax : 02162-261122
 e-mail : agceengg@sets.edu.in

Institute Code : Engg. DTE EN-6545
 Poly Code : DTE DN-6545
 Poly MSBTE-1617 (2nd Shift)

Facility/Services Feedback Form

Academic Year: 2022-23 Semester: VI

	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
 Sports should be more.

ARVIND GAVALI COLLEGE OF ENGINEERING
 EN-6545
 SATARA

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, Unacademy.
- 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: Students Participating In Online Certification Courses



Fig. 9.4.b: DELNET Web portal



Fig. 9.4.c: Practical on Virtual Lab

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

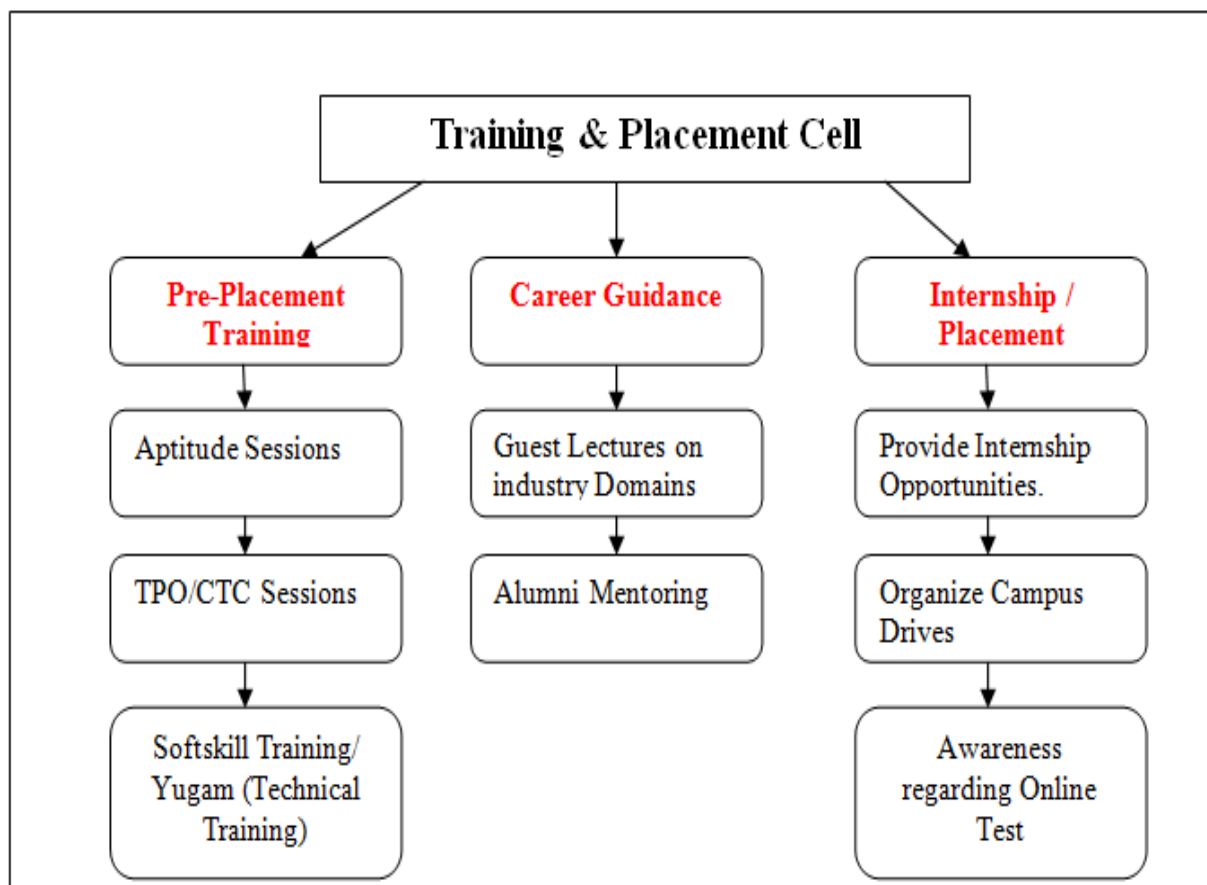


Fig. 9.5.a: Institute training and placement cell procedure

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 in IT Industry and Japan	Mr. Bipin Kadam (Thinksmart Soft, Tokyo, Japan)	03/05/2023
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 - 30/06/2022
2021-22	CDAC Preparation, Opportunities	Mr. Ashish Nalawade	31/05/2022

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) by	Mr. Shekhar Bidwai, Director Chinmay Educational Consultancy, Pune	26/11/2020
2019-20	Higher Education Opportunities in Abroad	Mr. Nik Kowels EU Business School, Germany (In association with CEC, Pune)	9/02/2020
2019-20	Opportunities after M.B.A.	M.I.R.M., Pune	4/10/2021
2019-20	Orientation Program on GATE by ACE Academy	ACE Academy, Pune	19/09/2019
2018-19	MBA CET Entrance Orientation	K.B.P.I.M.S.R., Satara	11/03/2019
2018-19	GATE Orientation Program	R.I.T. ,Sakharale	24/09/2018
2018-19	GATE Examination Awareness	Dr. Nayak B.M. (A.G.C.E., Satara)	21/09/2018

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
2022-23	Workshop on PCB Designing and Manufacturing	Mr. Pravin Mohite (Aprontech, Satara)	7/08/2023 To 18/08/2023

Academic Year	Details	Speaker/Expert	Date
2022-23	Workshop on C,C++ and Python	Mrs. Pranali Nalawade (Squirrel's Infotech)	7/08/2023 - 18/08/2023
2022-23	Workshop on Automation in IOT	Tushar Inamdar (Squarewave Automation Pvt Ltd, Satara)	1/08/2023 - 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 - 19/06/2023
	Five days Workshop on Introduction to Python, AI and ML	Mr. Abhiraj Ubale (Software Developer, Code Culture, Pune)	22/05/2023 - 26/05/2023
2022-23	Developing Softskills	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 - 13/04/2023
2021-22	English Speaking Session	Mr. Kale A.A. (A.G.C.E., Satara)	1/05/2022-30/06/2022
2021-22	Workshop on CATIA,CEO, SolidWorks for Mechanical Engineering Students.	Mr. Sathe Mahesh (Design Solution, Pune)	1/03/2022-31/05/2022
2021-22	Campus To Corporate Activity	Ms. Bhilare N.S. Mr. Kale A.A. (A.G.C.E., Satara)	1/05/2022-30/06/2022
2021-22	Aptitude Sessions	Mr. S.P.Patil Mrs. A.D. Kasture (A.G.C.E., Satara)	1/03/2022 - 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

Academic Year	Details	Speaker/Expert	Date
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 Communications, Pune) 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)	29/7/2020-4/8/2020
2019-20	Yugam – Four Week Training Program on PCB Design (Electrical Engg. & E&TC Engg.)	1) Mr. Santosh Chavan (A S M Tracks, Shirwal) 2) Prof. Venkatasai shreenath (BVSR,Ongol, AP) 3) Prof. Sameer Bagwan (ADCET, Ashta) 4) Dr. Dhanashree Gawali (Singhgad,Pune) 5) Prof. Vishal Ambhore(VIIT, Pune) 6) Mr. Shridhar Dudam (Smart Logic Technologies, Pune) 7) Prof. Niraj Kapse (Electrowing Services, Ichalkaranji) 8) Mr.Prafull Bagade (AutoTech, Nashik) 9) Mr.Tejas Shilamkar (VertivEnergy Pvt Ltd) 10) Ms. Vinaya Kadam (Free Lancer)	29/06/2020-24/07/2020
2019-20	Personality Development Program by Rubicon Skill Development Pvt Ltd(10 th Sept to 12 th Sept, 2019)	Mr. Amar Shinde, Mr. Satya S.	10/9/19 - 12/9/19

Academic Year	Details	Speaker/Expert	Date
2019-20	Workshop on Introduction to Arduino and Basic Electronics	Mr. Vishwajit Kulkarni, AGCE, Satara	9/9/19-14/9/19
2019-20	Aptitude Sessions (40 Sessions)	Asst. Prof. S. P. Patil Asst. Prof. S.D. Pawar Asst. Prof. A.D. kasture	1/9/2019-13/3/2020
2019-20	Yugam – Four Week Training Program for Civil Engineering	1) Dr.R.R.Sorate (J.S.P.M.Bawadhan) 2) Prof.A.P.Khatr (J.S.P.M.Narhe) 3) Prof.Kakade Sir (COE,Pune) 4) Prof. Chafalkar Sir (J.S.P.M.Tathawade) 5) Prof. Ban Sir (Raisoni, Nagpur) 6) Prof.Mule Sir, (J.S.P.M.Narhe) 7) Mr.Milind Vasudev (Lax Academy) 8) Dr.Minde Sir (MIT,Kothrud) 9) Mr. Jojo Mathew, (HIT,Nidasoshi) 10) Prof. Khandekar Sir (PVPIT, Pune) 11) Dr. Wagh Sir (Zeal College, Pune) 12) Prof. Vipul Naidu (PVPIT,Pune)	29/6/2023-24/7/2020
2019-20	Yugam – Four Week Training Program on PCB Design (Electrical Engg. & E&TC Engg.)	1) Mr. Santosh Chavan (A S M Tracks, Shirwal) 2) Prof. Venkatasai shreenath (BVSr,Ongol, AP) 3) Prof. Sameer Bagwan (ADCET, Ashta) 4) Dr. Dhanashree Gawali (Singhad,Pune) 5) Prof. Vishal Ambhore (VIIT, Pune) 6) Mr. Shridhar Dudam (Smart Logic Technologies, Pune) 7) Prof. Niraj Kapse (Electrowing Servies, Ichalkaranji) 8) Mr.Prafull Bagade (AutoTech, Nashik) 9) Mr.Tejas Shilamkar (Vertiv Engergy Pvt Ltd) 10) Ms. Vinaya Kadam (Free Lancer)	29/6/2020-24/7/2020

Academic Year	Details	Speaker/Expert	Date
2018-19	Softskill Development Program (under lead College Activity.)	Mr.Pulkit Singh Ms. Sylviya Johnson (Eka Training)	11/3/2019- 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- 27/1/2019



Fig.9.5.b: Yugam CNC Participant Certificate



Fig.9.5.c:English Speaking Session By Mr. A.A. Kale

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%	63%
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.
4. **Entrepreneurship Development Program** by MITCON Consultancy & Engineering Services on 18th and 19th January, 2019.
5. Organized session on **Entrepreneurship Awareness delivered** by Mr. Rohit Bhole (Founder 3Star IT Solutions) to spread awareness among the students on 24th April 2021.
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.

Aravind Gavali College of Engineering (C-11245)
 IIC ID: IC201912756
 Star Ratings (AY 2023-22): ★★★★★

The deadline for report submission has been extended until September 11, 2023.

+ Add Teaching/Non teaching Members

Roles	Name & Details	Department	Designation	Qualification	Experience in Years	Action
President	Dr. Vilas Pharende vilaspharende@gmail.com 8806661729		Director, Innovation, Incubation, and Linkages			
Innovation Activity	Mr. Suhas Patil iamsuhaspatil@gmail.com 9800928844	Mechanical Engineering	Assistant Professor	Post Graduate	10	
Convener/PR Activity Coordinator	Dr. Gayatri Mirajkar gayatrimirajkar@gmail.com	Electronics and Telecommunication Engineering	Professor	Doctorate	15	
Start up Activity Coordinator	Mr. Arjun Kadam arjunkadamfonu@gmail.com 9790177047	Mechanical Engineering	Assistant Professor	Post Graduate	8	
Social Media	Mr. Vishnu Khade vishnukhade9453@gmail.com 9545405775	Electronics and Telecommunication Engineering	Assistant Professor	Post Graduate	6	
ARISA Coordinator	Mr. Vijay Gujar gujarvijay@gmail.com 7972059171	Computer Science and Engineering	Assistant Professor	Post Graduate	20	
NIRF Coordinator	Mr. Ankur Kamble ankkam@gmail.com 9067493289	Mechanical Engineering	Assistant Professor	Post Graduate	7	
Internship Activity Coordinator	Dr. Manali Shah shah.manali1@gmail.com 9822610618	Computer Science and Engineering	Associate Professor	Doctorate	22	

Fig.9.6.a: Under ED Cell, institute has registered for Institute Innovation Course





स्वावलंबी भारत अभियान
 (पश्चिम महाराष्ट्र प्रांत)
आणि
 अखिल भारतीय विद्यार्थी परिषद, सातारा जिल्हा
 समर्थ एज्युकेशन सोसायटीचे, अरविंद गवळी कॉलेज ऑफ इंजीनियरिंग
 यांच्या संयुक्त विद्यमाने
उद्योजकता विकास यात्रा
 दिनांक - ३१/०८/२०२३ ते १२/०९/२०२३

उद्घाटन समारंभ

दिनांक, ३१/०८/२०२३ रोजी सकाळी ११ वाजता संपन्न होत आहे.

उद्घाटक
श्री. समीर शेख
(ज्य. जिल्हा पोलीस अधीक्षक सो. सातारा जिल्हा)

प्रमुख बक्ते
डॉ. द्विपक शिकारपूर
(प्रसिद्ध संलग्नक तज्ञ)

प्रमुख पाहुणे
श्री. निशांत गवळी
(सेक्टरल सगर्व प्रोजेक्शन सोसायटी सातारा)

कार्यक्रम अध्यक्ष
डॉ. विलास फरांदे
(प्राचार्य अ. म. कॉलेज ऑफ इंजीनियरिंग)

प्रमुख उपस्थिती
श्री. मिलिंद देशपांडे (प्रांत समन्वयक स्वावलंबी भारत अभियान, पश्चिम महाराष्ट्र)
श्री. उमेशचंद्र दंडगव्हाळ (ज्य. व्यवस्थापक, जिल्हा उद्योग केंद्र, सातारा)
श्री. अनिल ठोंबरे (प्रदेश मंत्री, अखिल भारतीय विद्यार्थी परिषद, पश्चिम महाराष्ट्र)

यांची प्रमुख उपस्थिती लाभणार आहे.
आपले विनित

श्री. श्रीराज दिक्षित
(जिल्हा समन्वयक, स्वावलंबी भारत अभियान, सातारा)

श्री. योगेंद्र सातपुते
(जिल्हा सह समन्वयक, स्वावलंबी भारत अभियान, सातारा)

प्रा. डॉ. सरिता बनशेटवार
(जिल्हा प्रमुख, अखिल भारतीय विद्यार्थी परिषद, सातारा)

श्रीनाथ सालुंके
(जिल्हा संयोजक, अखिल भारतीय विद्यार्थी परिषद, सातारा)

स्थळ - अरविंद गवळी कॉलेज ऑफ इंजीनियरिंग, वर्ये, सातारा

Fig. 9.6.b: Udyojakata Vikas Yatra organized at Institute- 31 Aug 2023.

Table No.9.6.a list of entrepreneurs

Sr. No	Name of Student	Program	Name of Organization
1	Randive Amol Sarjerao	CIVIL	A A Enterprizes, Ghatkopar
2	Kadam Arjun Suresh	CIVIL	Mahalakshmi Construction, Satara
3	Mane Sourabh Bajirao	CIVIL	Shree Datta Construction, Mhaswad
4	Shinde Anupsinh Virsing	CIVIL	Ratnaprabha Construction, Bhujinj
5	Patil Raj	CIVIL	M/S Raj Constro Corporation India
6	Lohar Rohit Namdev	CIVIL	The Engineer's Caffee
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	Kalbhori Shivraj	ELECTRICAL	Gurudatta Electricals and Engineers, Satara
12	Jambhale Sandesh Subhash	ELECTRICAL	M. Sani Sandesh 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

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	Shubhamdhane	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	AtharvDhane	University	Chess	Participant
10	OmkarMiraje			
11	Anniruddha Kadam			
12	Hasan Shaikh			
13	OmkarMiraje			
14	AkankshaMatkar	University	Kabaddi	Participant
15	AishwaryaPanvelkar			
16	Arati Gaikwad			
17	Sanjana Jadhav			
18	Vaishnavi Kamble			
19	Shreya Chavan			
20	Pragati Ghadge			

21	Amruta Deshmukh			
22	Avishkar Kadam			
23	SawantOmkar	District	Badminton (Men's Single)	Runner-up
24	Surve Swaraj	University	Interzonal Wrestling	Winner

Academic Year 2021-22				
17	Abhay Sanjay Chorage	University	Tug Of War	Participant
18	Akash Anandrao Thorat			
19	Avdhut Ashok Mane			
20	Chaitanya Siddheshwar Wagh			
21	Harshada Kishor Shinde			
22	Mandhare Pratiksha Somnath	University	Kabbadi	Participant
23	Dagade Kshitija Sunil			
24	Kumbhar Aadarsh Rajendra			
25	Kanase Abhishek Bapuso			
26	Patil Akshada Ashok			
27	Katkar Akshali Dilip			
28	Malusare Ankita Jagannath			
29	Shirke Atharva Chandrakant			
30	Surve Swaraj	State	Wrestling	Participant
Academic Year 2020-21				
31	Jadhav Ayush Dattray	University	Chess mania 2K21	Participant
32	Attar Mustan Nisar			
33	Gaikwad Rushikesh Dilip			
34	Pustake Utkarsh Ravindra			
35	Jaddhav Abhishek Mohan			
36	Shinde Kavita Mohan			
Academic Year 2019-20				
37	Swaraj Surve	Inter college	Wrestling -57kg (By KBPCOE, Satara)	Runner Up
38	Omkar Mahadik	University	Kabaddi (By DBATU, Lonere)	Participant
39	Shinde Akshay			
40	Mali Kishor			
41	Bhoite Aryan			
42	Shirke Sani			
43	Gaikwad Sushant			
44	Sutar Pratik			
45	Kalkundrikar Rahul			

Academic Year 2019-20				
46	Pawar Rushikesh	University	KHO-KHO (By DBATU, Lonere)	Participant
47	Pawar Mahesh			
48	Pawar vaibhav			
49	Chavan Prathmesh			
50	Anande Mahesh			
51	Korade Shubham			
52	Sawant Sachin			
53	Mulik Akash			
54	Nagargoje Krishna			
55	Kadam Vaibhav			
56	Jadhav Atul			
57	Khatte Avishkar			
58	Waghmode rohit			
59	Mulla Altaf			
60	Chavan namrata	University	KHO-KHO (By DBATU, Lonere)	3 rd Prize
61	Gurav Kanchan			
62	Sawant Shital			
63	Dalvi Pranita			
64	Katkar Arati			
65	Vedpathak Poonam			
66	Ingawale pratiksha			
67	Yadav Priyanka			
68	Shinde Rutuja			
69	Sakunde Neha			
70	Shingate Mayuri			
71	Chavan Sakshi	University	Kabaddi (By DBATU, Lonere)	Winner
72	Patil Snehal			
73	Patil Karishma			
74	Chavan pooja			
75	More Shubhangi			
76	Pawale Hrituja			
77	Velapure Divya			
78	Daphale Sayali			
79	Bhosale Priyanka			
80	Tarade Priyanka			
81	Abhishek katkar		Shot Foot (By DBATU, Lonere)	Participant
82	Jadhav Akash			
83	Katkar Abhishek		Relay 4*100 meter (By DBATU, Lonere)	Participant
84	Jadhav Omkar			
85	Mali Kishor			
86	Mahadik Omkar			

Academic Year 2018-19				
87	Abhishek Katkar	University	Shot Foot (By DBATU, Lonere)	Winner
			Running 100m & 200m(By DBATU, Lonere)	Participant
88	Vaibhav kadam		Running 800m & 1500m (By DBATU, Lonere)	Participant
89	Avishkar khatte		Running 2000m (By DBATU, Lonere)	4rth Winner



Fig.9.7.a: Abhishekh Katkar : Football Competition (DBAT University)

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
 NAAC Accredited - Since 2017
 Panmalewadi, Varye, Satara Ph.(02162) 200100

SAWKAR TROPHY-2K23

(State level competition)

05 to 07 April 2023

TUG-OF-WAR
 Entry Fee: 50/-
 05th April, 2023
 Venue : AGCE GROUND
 Last date of registration : 04 April 2023
 Student Co-Ordinator :
 Sudhanshu Kulkarni (Poly Mech) : 9862771421
 Pavan Pawar (Poly Mech) : 930713019

VOLLEYBALL
 Entry Fee: 140/-
 05th April 2023
 Venue : AGCE Ground
 Last date of registration : 04 April 2023
 Student Co-Ordinator :
 Kunda Wadkar (TY.E.E.) : 9411840718
 Varsha Kumbhar (TY.E.E.) : 7820178118

KABBADI
 Entry Fee: 160/-
 05th April 2023
 Venue : AGCE Ground
 Last date of registration : 04 April 2023
 Student Co-Ordinator :
 Sagar Shinde (Mech.) : 0870707893
 Akanksha Wadkar (Mech.) : 9857818800

ATHLETICS
 Entry Fee: 200 M. 20/-
 07th April 2023
 Venue : AGCE Ground
 Last date of registration : 06 April 2023
 Student Co-Ordinator :
 Swati Shage (Poly CD) : 9263875953
 Raj Jadhav (Poly CD) : 9322784447

CRICKET (BOYS)
 Entry Fee: 250/-
 05th April 2023
 Venue : AGCE Ground
 Last date of registration : 04 April 2023
 Student Co-Ordinator :
 Akash Thorat (Civil) : 7499612656
 Balram Kalbhor (Civil) : 9657278512

BOX CRICKET LEAGUE (Girls)
 Entry Fee: 140/-
 07th April 2023
 Venue : AGCE Ground
 Last date of registration : 06 April 2023
 Student Co-Ordinator :
 Arati Shinde (CSE) : 9370294399
 Utkarsh Koli (CSE) : 7721883765

CARROM
 Group Entry Fee: 80/-
 06 April 2023
 Venue : AGCE Ground
 Last Date of Registration : 5 April 2023
 Student Co-Ordinator :
 Mayant Gole (FY.CW) : 9136448488
 Aditya Salekar (FY.CW) : 8652120314

BADMINTON
 Entry Fee: 40/-
 06 April 2023
 Venue : AGCE Ground
 Last date of registration : 05 April 2023
 Student Co-Ordinator :
 Varun Barge (Poly E&TC) : 8910858103
 Shrutika Shinde (Poly E&TC) : 8438780992

KHO-KHO
 Entry Fee: 200/-
 06 April 2023
 Venue : AGCE Ground
 Last date of registration : 05 April 2023
 Student Co-Ordinator :
 Abhijit Pawashe (SY.CSE) : 9527126504
 Ayush Patil (TY.Mech.) : 7972793344

CHESS
 Group Entry Fee: 40/-
 07 April 2023
 Venue : AGCE Ground
 Last date of registration : 06 April 2023
 Student Co-Ordinator :
 Pratik Pali (E&TC) : 7420983553
 Shekhar Pawar (E&TC) : 8288917822

Terms and condition apply

Avishkar Kadam 9021316821
Ritesh Jadhav 9370980177
STUDENT CO-ORDINATOR

Prof. Nikhil V. Ghadge
SPORTS CO-ORDINATOR

Dr. Vilas A. Pharande
PRINCIPAL

Hon. Shri. Nishant Gavali
SECRETARY

Hon. Shri. Arvind Gavali
CHAIRMAN

Fig.9.7.b: Annual Sports Event “SAWKAR TROPHY”- 2023

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.

Table No.9.7.b: SATARA HILL MARATHON ACTIVITIES

No.	Name of the Event	Date	Contribution
1	MAS Marathon 2022	02/10/2022	Volunteers, Food Stations
2	SHM 2022(Satara Hill Half Marathon 2022)	18/09/2022	Volunteers, Food Stations
3	SHM 2019 (Satara Hill Half Marathon 2019)	25/08/2019	Volunteers, Water Stations
4	SHM 2018 (Satara Hill Half Marathon 2018)	02/09/2018	Volunteers, Water Stations



Fig.9.7.c : 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, Shivjayanti 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
	2022-23	Shivrajyabhishek Celebration	350
1		Shivjayanti 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	ShivSwarajya 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

Sr No	Academic Year	Details of cultural event	Number of students participated
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
28	2018-19	Mahatma Gandhi Jayanti(02/10/2018)	50
29		Dandiya 2018(17/10/2018)	409
30		YOUTH Festival at D.P.Bhosale College, Koregaon (26/10/2018)	30

31		Presenting the Streetplay on "Acche Din wo Chaar Din" (11/11/2018)	10
32		Savitribai Phule Jayanti (03/01/2019)	104
33		Against Dowry Conference at Mukhtangan Satara (14/04/2019)	25

SAWARKAR INSTITUTES

SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

NAAC Accredited

तारुणाई -2023

Cultural Event 05 April to 08 April 2023

STATE LEVEL COMPETITIONS

ANNUAL DAY "TARUNAI 2023"

Date: 05/04/2023

Western Day & Mis-Match Day
(Song dedication, Chocolate Day)

Aadarsh Kumbhar (TY B.Tech.E&TC)
Mob.: 7249388170
Dhanashri Jadhav (TY B.Tech.E&TC)
Mob.: 9767628469

Prof. Sanskruti Nalawade, Mob.: 8990399165

Twins Day & Funky Day
(Quiz competition, Mimicry)

Kajal Galve (TY B.Tech. Mech)
Mob.: 9922877057
Sakshi Shinde (TY B.Tech. Mech)
Mob.: 9373738131

Prof. Ankur Kambale, Mob.: 9067493289
Prof. Nikhil Ghadage, Mob.: 7620233395

Date: 06/04/2023

Bollywood, Hollywood, Tollywood
(Singing, Stand up comedy, Fishpond, Costume Presentation)

Parthiv Kharat (TY B.Tech.CSE)
Mob.: 9834379002
Sakshi Chinchkar (TY B.Tech.CSE)
Mob.: 9322314956

Prof. Shital Waghmare, Mob.: 7219788081

Tie Blazer, Saree Day & Rose Day
(Fishpond, Mr & Miss AGCE)

Rohit Kadam (TY B.Tech.Elect.)
Mob.: 7219774101
Mayuri Pawar (TY B.Tech.Elect.)
Mob.: 8767931853

Prof. Ashlesha Mali, Mob.: 7083743002

School Dress Day & Food Stall
(Games Stall, Flash Mob)

Sahil Chevan (TY B.Tech.Civil)
Mob.: 7972206508
Shrikant Salunkhe (FY B.Tech.Mech)
Mob.: 8530790050

Prof. Pooja Bhosale, Mob.: 930895537
Prof. Rakesh Salunkhe, Mob.: 9881539785

Date: 07/04/2023

Date: 08/04/2023

Ruman Nalband (TY B.Tech. E&TC)
Mob.: 8698335209
Aniruddha Kadam (TY B.Tech.Mech.)
Mob.: 9022203409
Omkar Salagare (TY B.Tech.Civil)
Mob.: 8793890220
Rohit V. Kadam (TY B.Tech. Elect.)
Mob.: 9657261430
Pranali Taware (TY B.Tech. CSE)
Mob.: 9404903728

Prof. Nikhil Ghadage, Mob.: 7620233395
Prof. Ankur Kambale, Mob.: 9067493289
Prof. Shital Waghmare, Mob.: 7219788081

Dr. Vilas Pharande (Principal) | **Hon. Mr. Nishant Gavali** Secretary | **Hon. Mr. Arvind Gavali** Chairman

Fig.9.7.d: Annual Cultural Event "TARUNAI"-2023



Fig.9.7.e: Shivjayanti Celebration

National Service Scheme (NSS):

As per the guidelines of DBATU Lonere , the Institute has formed a 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 Rally 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.

NSS Activities**TableNo.9.7.d: Year-wise list of NSS activities**

Sr. No	Academic Year	Date	Event Name
1	2022-23	15/08/2022	Independence Day
2		14/11/2022	Children Day
3		8/12/2022	Lek Ladki Abhiyan
4		12/01/2023	Jijau jyanti, Swami Vivekananda Jayanti
5		26/01/2023	Republic Day
6		19/02/2023	Shivjayanti
7		23/02/2023	Blood Donation
8		08/03/2023	Women's Day
9	2021-22	4/03/2022	Food Donation at Villages
10		4/03/2022	Swatchhata Abhiyan
11			Health Checkup Camp
12		5/3/2022	Blood Donation Camp
13		25/3/2022	Tree plantation
14		6/03/2022	Dustbin Donation Activity
15		20/06/2022	No Vehicle Day
16	2020-21	15/08/2020	Arsenic Album Distribution Activity
17		21/03/2021	Tree Plantation
18	2019-20	22/07/2019	"Jal Divas" Celebration
19		12/08/2019	Activity for helping People of flood Affected Areas
20		2/10/2019	"Swatchata Hi Seva" Activity
21		17/01/2020	"Road Safety Week" (Session for Guidance on Road Safety and Rules by Mrs. Afreen

			Mulani (RTO Officer Satara)
22		26/01/2020	Participated and Guided regarding the “ UNNAT BHARAT ABHIYAN ” in GRAMSABHAs of 5 Villages (Panchwad, Kudal, Panmalewadi, Varye, Bhuinj)
23		2/2/2020 - 8/2/2020	NSS Camp at Anewadi, Satara
24	2018-19	14/1/2019 - 19/1/2019	NSS Camp At Bhaleghar, Sanpane, Satara
25		21/07/2018 02/10/2018	Tree Plantation
26			“Swatchhata Awareness Rally”
27		25/01/2019	“National Voters’ Day”
28		06/02/2019	Road Safety Guest Lecture
29		22/02/2019	“Swatchhata Camp”
30		23/02/2019	Blood Donation Camp



Fig.9.7.f: NSS Camp at Jalgaon Tal. Koregaon, Dist. Satara -2023



Fig.9.7.g: NSS CAMP at at Jalgaon,Koregaon, Satara



Fig.9.7.h: Arsenic Album Tablets Distribution-2022

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 Abhiyan and 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



The poster for Unnat Bharat Abhiyan (UBA) features the Government of India logo, the UBA logo, and the Ministry of Human Resource Development logo. The title is 'उन्नत भारत अभियान' (UNNAT BHARAT ABHIYAN) with the tagline 'सिखित भारत- सक्षम भारत- स्वच्छ भारत-स्वावलम्बी भारत-संपन्न भारत' (Convergence of Knowledge/ Experience/ Resources for Rural Development). It lists five focus areas: Organic Farming, Water Management, Artisans, Industries & Livelihood, Basic Amenities, and Sustainable Energy. The text invites participation from higher educational institutions and mentions that ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA is participating in UBA and has adopted five villages: 1. PANMALEWADI, 2. VARYE, 3. BHUINJ, 4. PANCHWAD, and 5. BAMNOLI T. KUDAL. It provides contact information for Mr. Barkade Vijay Tukaram (Coordinator UBA cell) and Prof. Vinendra Kumar Vijay (National Coordinator UBA).

Fig. 9.7.i: Unnat Bharat Abhiyan



Fig. 9.7.j: 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
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 Vidyapeeth 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

Sr. No.	Academic Year	Name of the Competition	Number of students participated
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 DBATU	04
27		AVISHKAR Intercollegiate Poster Presentation Competition	80
28		PROTECH 2020 at Symbiosis International University, Pune	02



Fig.9.7.k: National Level Project Competition CRETTECHNOVA 2k23 College of Engineering, Malegaon, Baramati



Fig.9.7.l: SMART INDIA HACKTHON at Bhilai Institute of Technology Durg



Fig.9.7.m: MATPO Aptitude Idol Participation

Student Chapter Formed:

Indian Geotechnical Society:

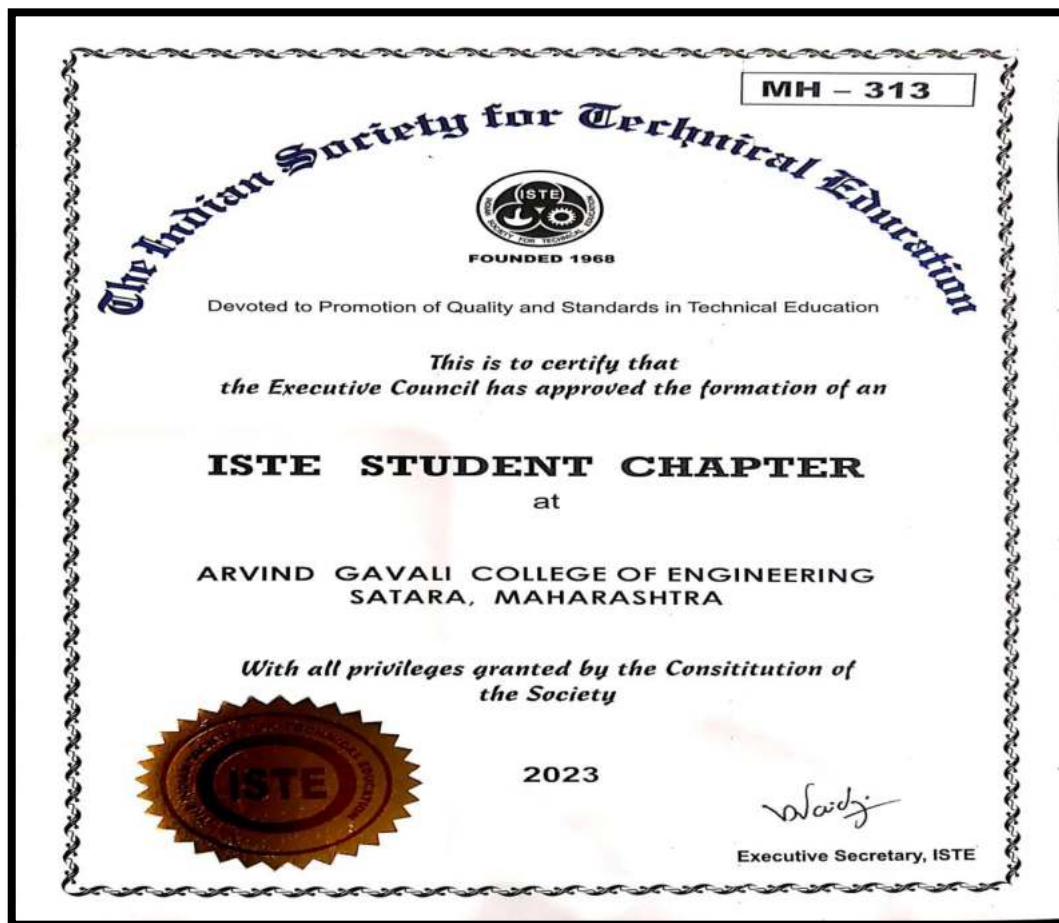
Student Chapter is formed under Indian Geotechnical Society (I.G.S.), Pune by Department of Civil Engineering. Under the chapter, guest/expert Lectures Geotechnical Field, industrial visits, workshops are supposed to be conducted. This chapter helps students to explore different aspects of geotechnical Field. This chapter promotes activities to inculcate passion towards geotechnical field and guides career opportunities in geotechnical field.



Fig.9.7.n: Indian Geotechnical Society-Pune Chapter, student Chapter Formed

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.o: 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.p: Photography 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.q : 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.

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
OFFERING
INDUSTRY ORIENTED PROFESSIONAL
CERTIFIED TRAINING PROGRAM FOR ENGINEERING ATTRIBUTES
 In Association With
SQUARE WAVE AUTOMATION TECHNOLOGIES Pvt. Ltd.
 Under
Robotics and Automation Club

Course Name :
Robotics and Automation Engineering

Train Yourself for Successful Future

What is Robotics Engineering?
 Robotics Engineering is a field that involves designing, testing, building and operating automated systems that perform specific actions to assist humans.

Objectives:
 The objective of the training is to get the new professional skills through hands on practical on "Kuka Robot", so that students can face the interviews successfully for getting a job in Robotics and Automation sector.

Duration of Training :
 The duration of training will be 90 days (6 Hours every day, from Monday to Saturday between 10:00 AM to 05:00 PM)

Course Structure:
 •PLC Ladder Logic Programming with Siemens, Mitsubishi and Delta PLC kits.
 •SCADA and HMI System.
 •Home Automation using Microcontroller.
 •Control Panel Designing.
 •Hands on practical on Physical "Kuka Robot".
 •Raspberry-pi with Python Language.
 •Arduino Programming

CO-ORDINATOR
Mr. Somesha Naik S R
Mob : 9663553985

CO-ORDINATOR
Ms. Bhagyashri Pol
Mob : 8552017444

JOBS
JOB OPPORTUNITIES!
 79000+ Robotics Engineer Jobs in India (9200 new)
Major Recruiters of Robotic Engineers
ISRO, DRDO, BHEL, TATA, ABB, SIEMENS, BOSCH, CUMMINS
Top 6 Career Options After Completing Robotics Engineering
 • Electromechanical Technicians
 • Robotics Programmers
 • Aerospace Robotics Engineers
 • Computer Scientists
 • Mechanical Engineers
 • Robot Design Engineer

9.7.r : 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.s : 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.t : 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.u : 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	Guest lecture on Management Studies by Dr. Pranjali Ankule	14/12/2022
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 in IT Industry and Japan (Mr. Bipin Kadam, Thinksmart Soft, Tokyo, Japan)	03/05/2023
5		Hands on & Workshop on Auto Cad.	2/12/2022 & 03-12-2022
6		Expert lecture on “Bituminous binders for road pavements, their specifications, suitability etc. Slope stability, Foundation on expansive soil, soil reinforcing techniques.	27/03/2023
1	2021-22	Visit to NCC Camp at Mahagaon for Seminar	2/06/2022
2		Guidance on Competitive Examination by Mr. Akshay Jadhav (Infinity Academy, Pune)	6/04/2022
3		Awareness program about Girl Child.	3/01/2022
4		Expert lecture on soil mechanics by Dr. S.T. Shinde	27/01/2022

5		One day Network security workshop By Mr. Prashant Patil	16/12/2021
6		Expert lecture on Surveying	27/01/2022
7		3D Printer installation	09/7/2021
1	2020-21	Career in Software Testing, Prerequisites and Opportunities by Mr. Sushant Sankpal	09/05/2021
2		Online webinar on "Scope & Career in pile foundation engineering lecture on Software Online Development by Dr. Sunil Basarkar	10/10/2020
3		Online Guest lecture on advanced development Waste water Treatment Plant by Mr. Khatri A.P	18/02/2021
2	2019-20	Resume Building and Interview Technique workshop By Mr. N.S. Juvekar	23/03/2020
3		Guest Lecture on Introduction to Career Opportunities in System Networking by Mr.Ajit Sutar	11/09/2019

ARVIND GAVALI
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OFFICE: 109, Vinodrai Plaza, Vasundhara, 411030, Pune
EMAIL: shekharbidwai@gmail.com, FACEBOOK: CHMFE, shekharbidwai

Fig.9.7.v: Master Kishor Ghadage from Mechanical got opportunity to study in Germany



Fig.9.7.w: Master Utkarsh Pustake from Mechanical got opportunity to study in Germany

CRITERION 10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120
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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 conducive 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 as 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. Secretary, 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 Mahananda Vishveshwar 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 Secretary, MSBTE RO, Pune	Member
10	Mr. Mali Milindkumar S. Associate Professor Singhad College of Engineering, Pune	Member
11	Mr. Waikar Omkar Supreme Silicons Trinity Enterprises Pune	Member
12	Mr. Bidwai Shailesh P. Chairman S.P. Packaging LTD	Member
13	Mr. Godbole Ashutosh Chartered Accountant	Member
14	Col Mr. Kanase Pramod A. Ex. Serviceman & Professor	Member
15	Prof. Hingmire Vishal Sharad Assistant Professor Arvind Gavali College of Engineering, Satara	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. NayakMeghya 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

dbatu.ac.in/academic-council/

7 September 2023 | Skip to Main Content | Screen Reader Access | Select Language | Font Resize: AA

Dr. Babasaheb Ambedkar Technological University
 डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ
 Lonere-402103 Tal- Mangaon, Dist- Raigad (M.S.) India.

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University Governance Examination Academics Affiliation Student Corner Research IQAC More Get In Touch

Academic Council

Academic Council

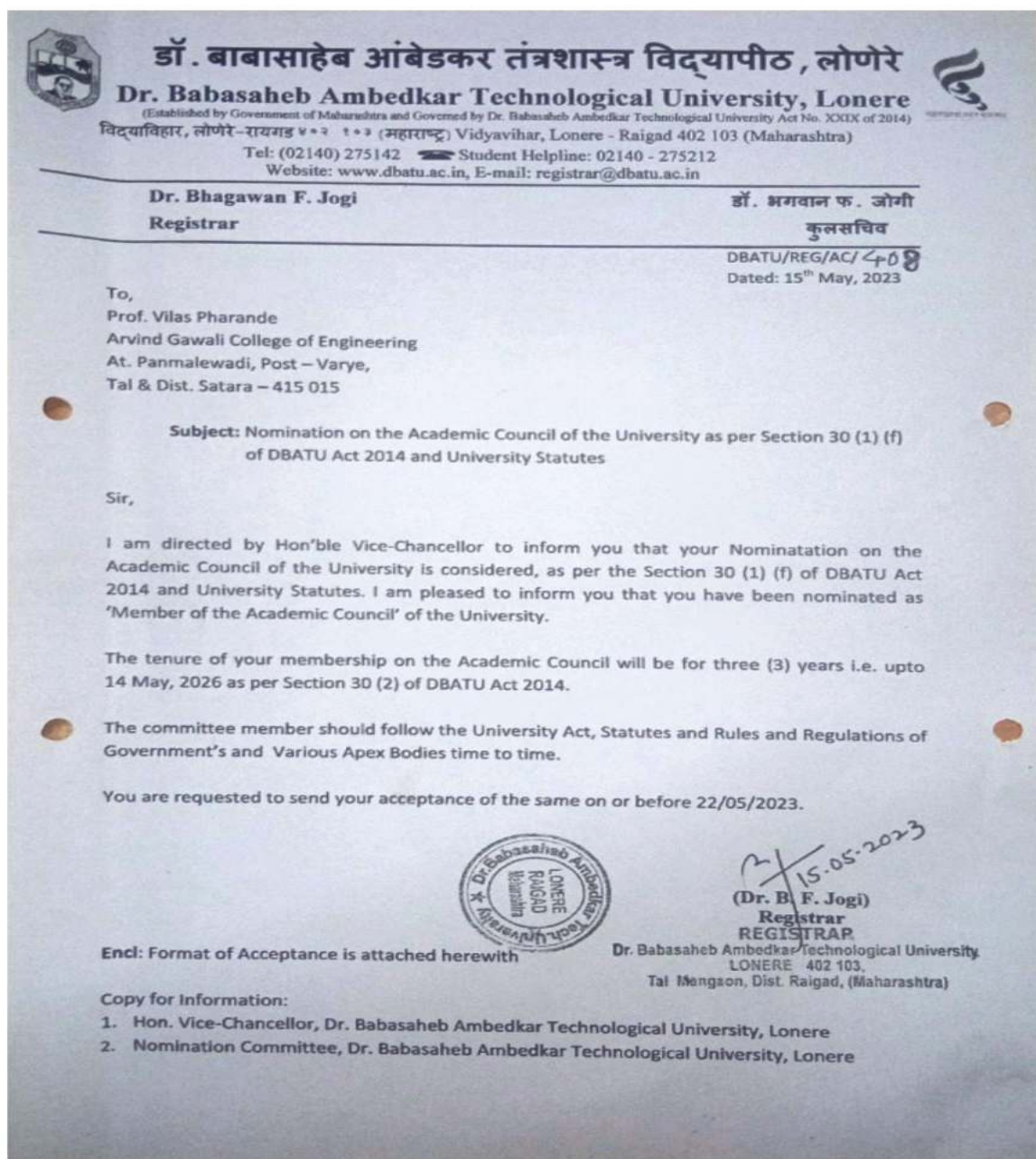
Sr. No.	Name & Address	Designation
01	Professor (Dr.) Karbhari V. Kale Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere	Chairman
02	Dr. S.L. Nalbalwar Dean (FoET)	Member
03	Dr. S.M. Pore Dean (R&D)	Member
04	Dr. H.N. Warhatekar Head, Department of Mechanical Engineering	Member
05	Dr. A.W. Kivelekar Head, Department of Computer Engineering	Member
06	Dr. Sangita Dahotre Head, Department of Physics	Member
07	Dr. S.M. Jadhav Head, Department of Information Technology	Member
08	Dr. A.R. Chavan Head, Department of Chemical Engineering	Member
09	Dr. Sangita Melkar Head, Department of Petrochemical Engineering	Member
10	Dr. A.P. Shesh Head, Department of English	Member
11	Dr. MFAR Satarkar Head, Department of Electrical Engineering	Member
12	Dr. H.A. Mujawar Head, Department of Chemistry	Member
13	Dr. Vilas Pharande Principal, Arvind Gavali College of Engineering, Pune	Member

G20 75th Anniversary
 अस्मदीया अमृत महोत्सव

National Education Policy 2020

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- AICTE EOA/LOA
- NISP Action Plan Dr. BATU Lonere
- National Innovation and Start Up Policy
- Governance
 - The Chancellor



10.1.2e Principal Dr. Vilas Pharande is DBATU University Academic Council member



10.1.2f 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.

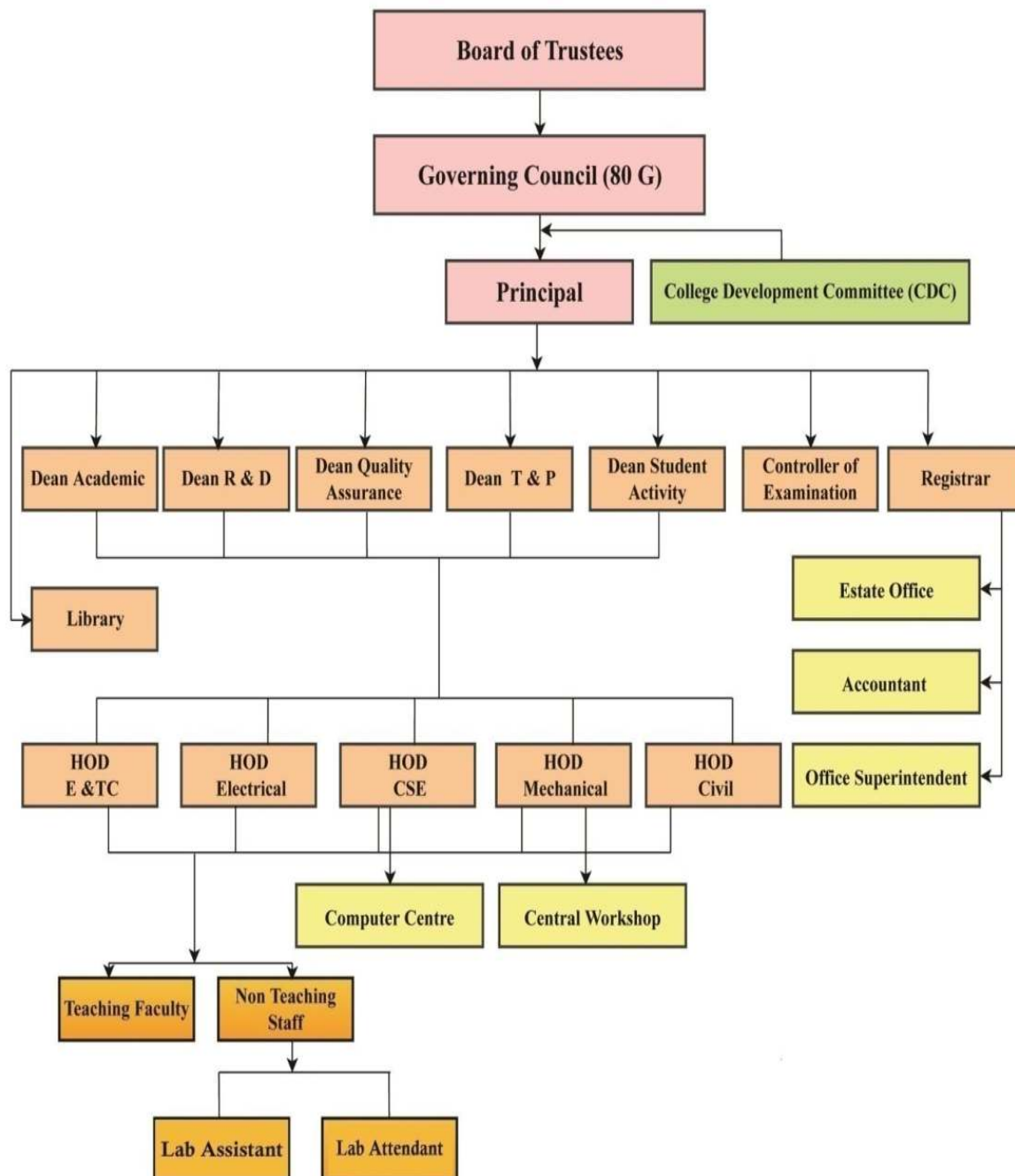


Fig 10.1.2g Organizational Structure

Duties & Responsibilities:

Each employee in the institute has some responsibilities and the employees should 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 the college.
- ✓ To make the employee and students aware of the rules, policies, and procedures laid down by 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 for Technical 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 of research 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 students about 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 maintain records 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 it 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\](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. Ghadge Suraj	Dean Academics
2	Mr. Hingmire Vishal	Dean IQAC
3	Dr. Mirajkar Gayatri	Dean R& D
4	Mr. Rajani Mandhare	Dean Student Council
5	Dr. Ananda Bhimrao Gholap	HoD Dept of Mechanical Engineering
6	Dr. Bamane Prashant Ramesh	HoD Dept of Civil Engineering
7	Dr. Nayak Meghay Banoth	HoD Dept of Electrical Engineering
8	Dr. Sagar Shinde	HoD Dept of Electronics & Telecommunication Engineering
9	Dr. Shaha Manali	HoD Dept of Computer Science & Engineering
10	Mr. Pathak P.A.	Training & Placement
11	Mrs. Yewale Vaishali	Librarian
12	Mr. Kamble Ankur	Director of Physical Education Coordinator NSS
13	Dr. Nayak Meghay Banoth	Coordinator Alumni Association
14	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

3. 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. Alatkhar 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. Alatkhar 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. Alatkhar 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. Alatkhar 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.m 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. Alatkhar 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. Lalde Prajta	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.n Grievance Redressal Cell committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Thombare Vijay Ramchandra	Coordinator	HOD Civil Engineering
3	Mr. Jagtap Dayanand Bajirao	Coordinator	HOD E&TC Engineering
4	Mrs. Alatkhar 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

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

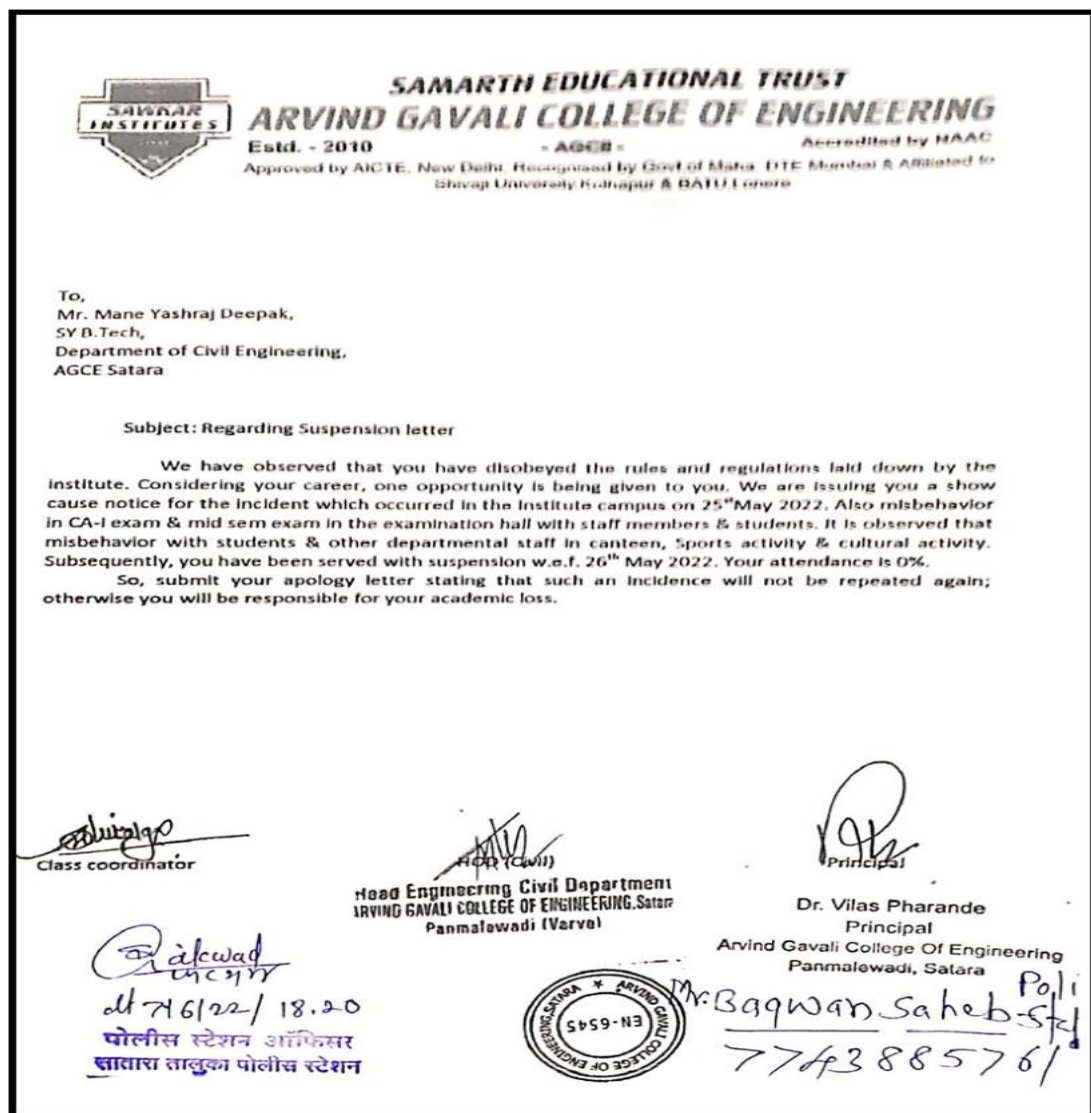
Grievance Redressal Cell committee			
Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Thombare Vijay Ramchandra	Coordinator	HOD Civil Engineering
3	Mr. Jagtap Dayanand Bajirao	Coordinator	HOD E&TC Engineering
4	Mrs. Alatkhar Manisha Nilkanth	Coordinator	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:



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. Alatkhar 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. Lalde Prajka	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 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

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

To
Principal
AGCE

Date
6/09/2022

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 full fill
this requirement

Yours Faithfully
Arundha

Rs. 17150/-

Approx.
Need Lab development.
Discussed with Hon-Secretary Sir
regarding location & working
installation.
VAT

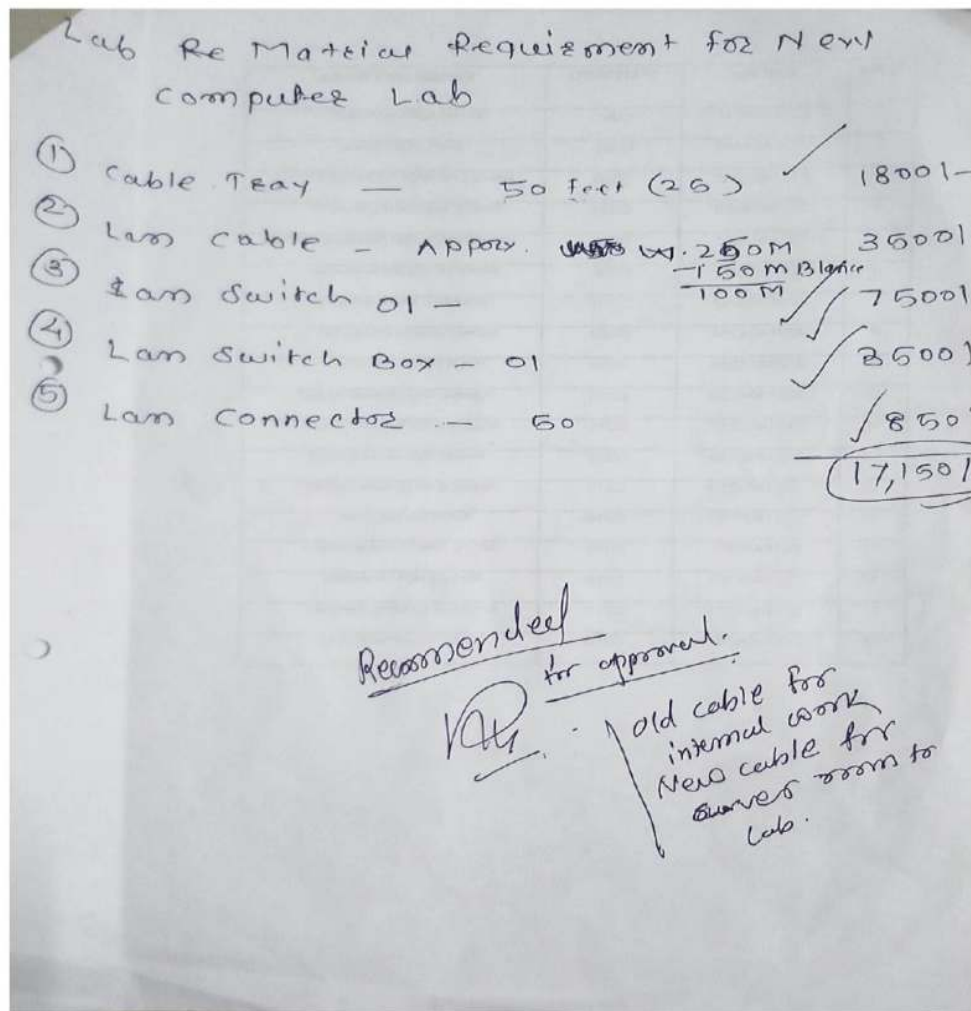


Fig 10.1.4.b1 Principal has approved Rs.17150/- for libratory development

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 (3*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.

VAP

Thanks & Regards
Mr. Kadam Akshaykumar B.
(Work shop incharge)

Satara

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 05/05/22
in our college. For this event we are
require stage in corridor. for that.
10000 Rs. please sanction the same
amount.

Rs. 10000/-
Recommended for
approval.
VAD

yours faithfully
Ms. Klaghmare S.A

Fig 10.1.4.b2 Principal has approved Rs.10000/- for extracurricular activities

1

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 its quotation from Micron Instruments Nashik. I want permission to handover the instruments to micron 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	4275/-
	01/10 TDL	4350/-
	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
Maintenance upto dated: 05/11/2019

[Signature]
(Ms. Tadhav R. D.)
Lab In-charge

[Signature]
Pharande S. B.
HoD, Civil Engg. Dept.

[Signature]
Tilak Jadhav
Tilak Jadhav

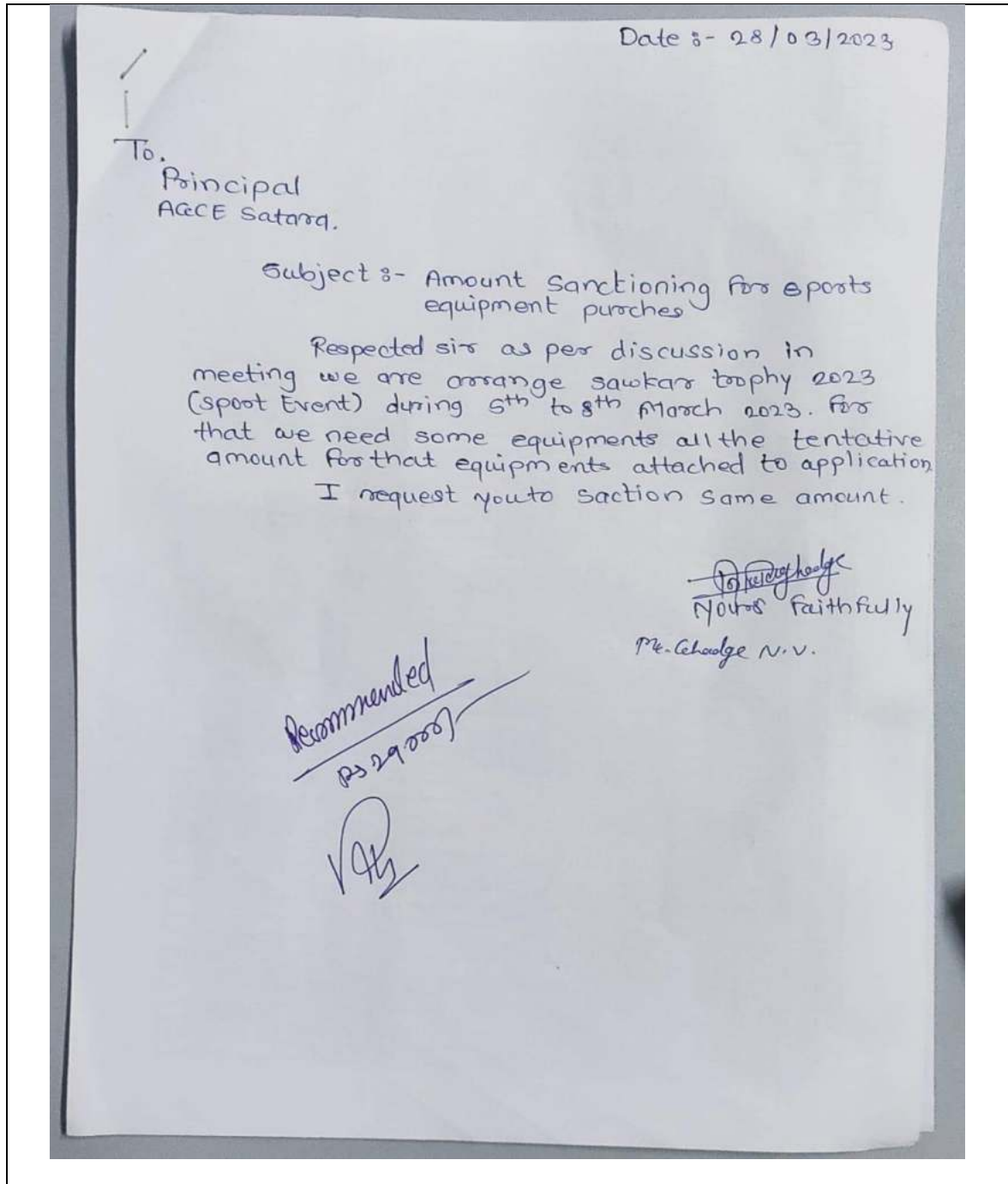



Fig 10.1.4.b3 Principal has approved Rs.15000/- for Sports activities



Tax Invoice/Bill of Supply/Cash Memo
 (Original for Recipient)

Sold By :
 Payal Enterprises
 * 4658 A / 21 ANSARI ROAD, ANSARI ROAD
 DARYA GNAJ, DELHI, 110002
 IN

PAN No: AAPFP4704K
GST Registration No: NotApplicable

Order Number: 402-0209171-6497171
Order Date: 27.03.2023


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
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
	Shipping Charges	₹100.00		₹100.00	0%	IGST	₹0.00	₹100.00
					0%	IGST	₹0.00	
					0%	None	₹0.00	
					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

*ASAPL-Amazon Seller Services Pvt. Ltd., ARPL-Amazon Retail India Pvt. Ltd. (only where Amazon Retail India Pvt. Ltd. fulfillment center is co-located)

Customers desirous of availing input GST credit are requested to create a Business account and purchase on Amazon.in/business from Business eligible offers

Please note that this invoice is not a demand for payment

Page 1 of 1

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>

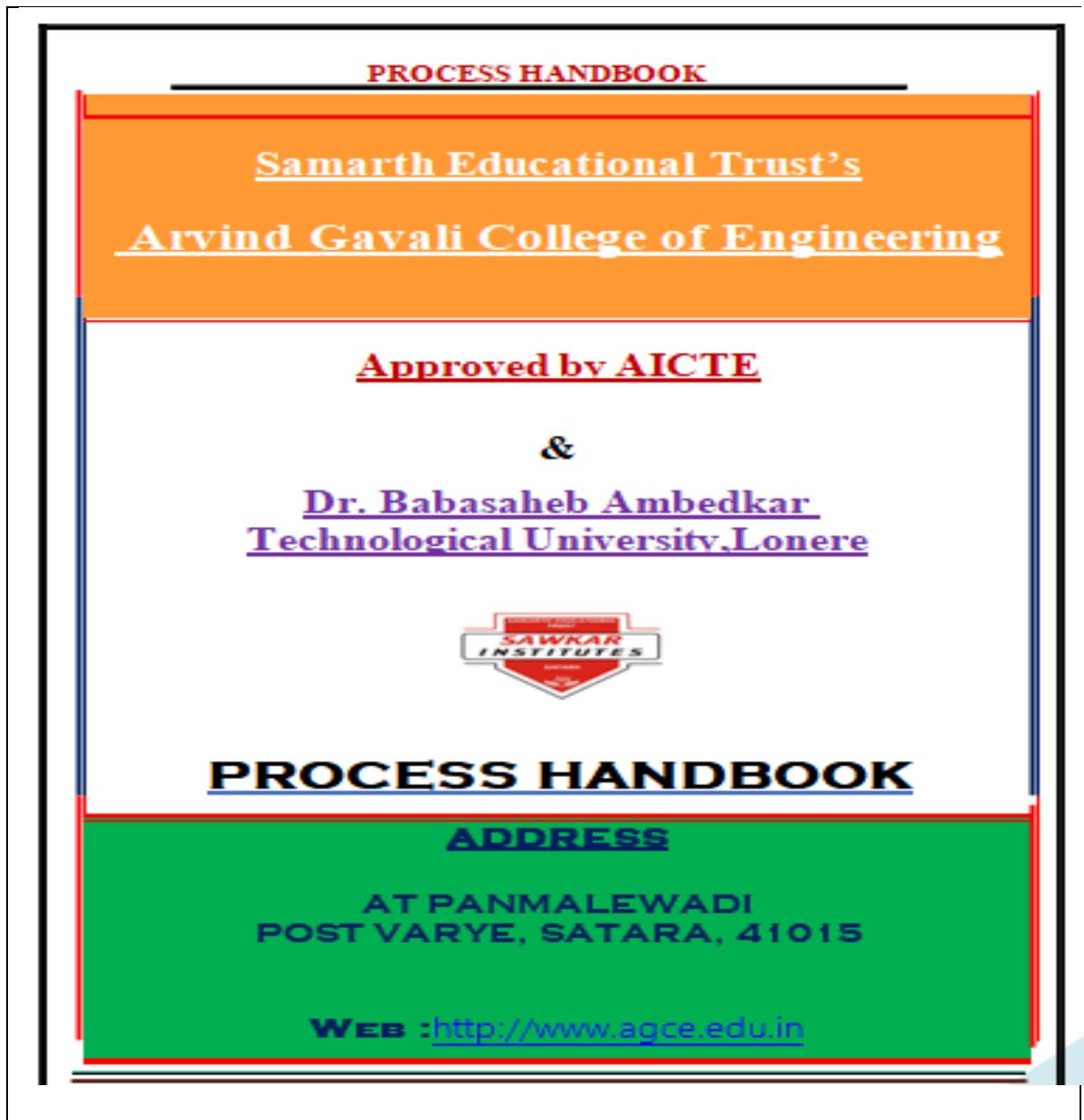


Fig 10.1.5 a Screen shot of Process Handbook first page

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.

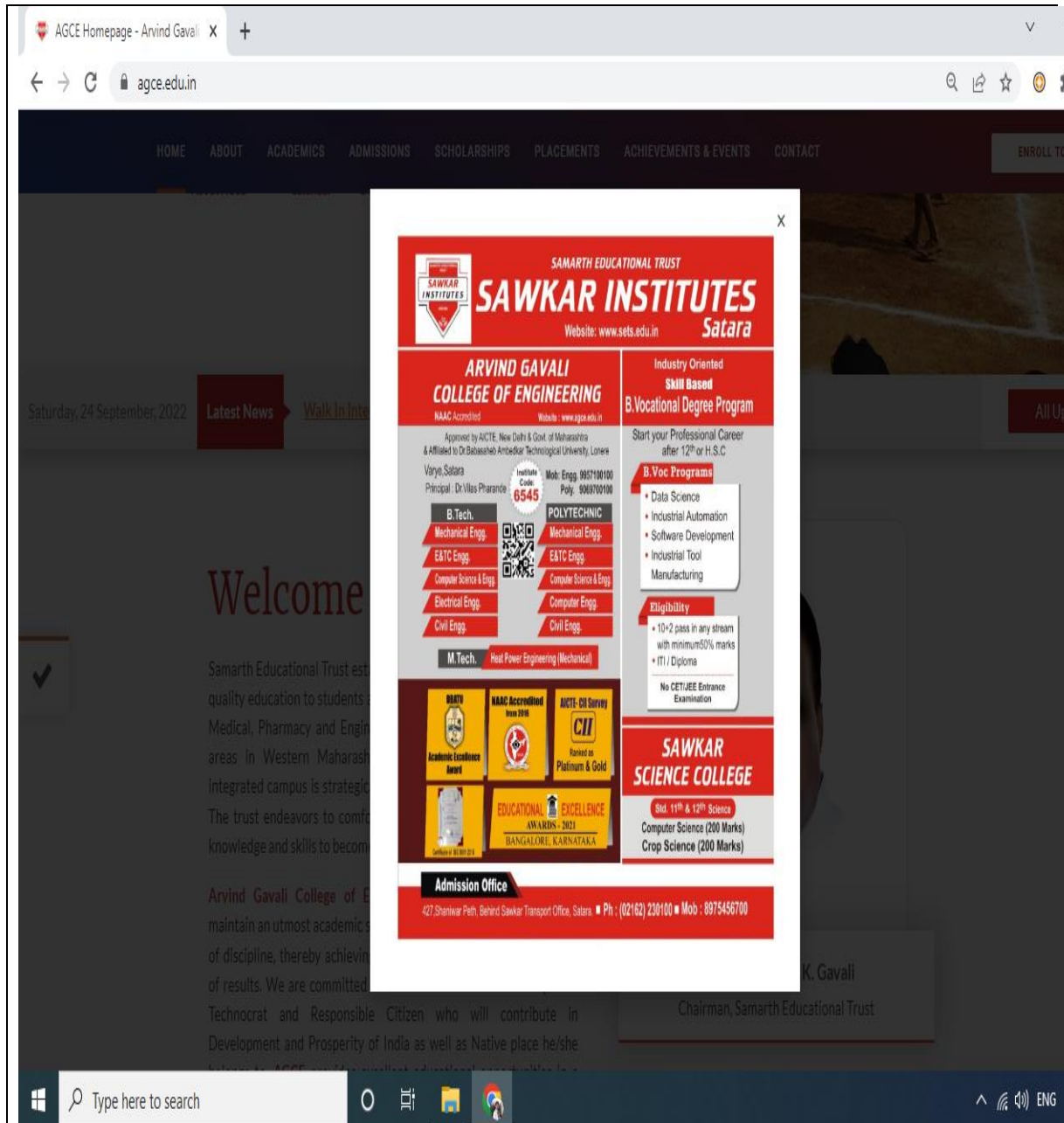


Fig 10.1.5 b2 Information about Admission and intake on website



Fig 10.1.5 b3 Information about latest news and updates 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

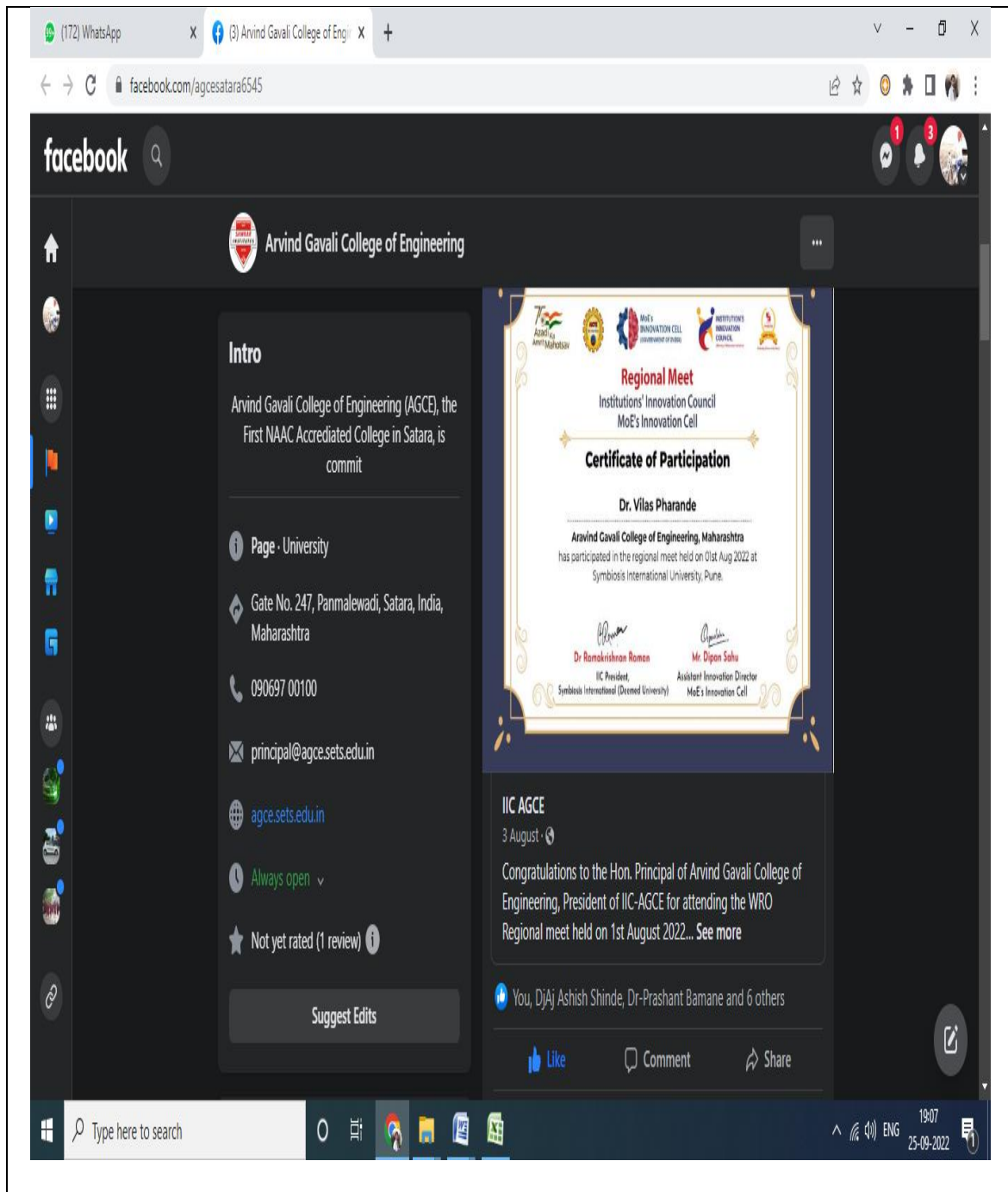


Fig 10.1.5 b5 Facebook page of Institute

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.

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
 Approved by AICTE, New Delhi & Govt. of Maharashtra & Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere
 Website : www.agce.sets.edu.in | Email : agcenggsatara@gmail.com
 Phone : (02162) 200100 , 261122

AGCE
 NAAC Accredited

IIT Bombay Remote Center only in AGCE Satara

10 वी, 12 वी नंतरची
तंत्रशिक्षण प्रवेश मार्गदर्शिका

1st NAAC Accredited Engineering College in Satara District

INSTITUTE CODE: 6545

ENGINEERING (B.Tech. / M.Tech.)
POLYTECHNIC (Diploma)

विद्यार्थी दत्तक योजने अंतर्गत फ्री मध्ये सवलत

D.T.E. Online Application & Option Form Facility available

Free

- Panmalewadi, Varye, Tal. & Dist.-Satara, Pin.-415 015
- 'Rajathadri' Compound, Near Dainik Sakal Shivaji Circle, Powai Naka, Satara,
- Near S.T. Stand Wai, Dist.-Satara.

Admission Counselor Contact No.:
Engineering : 8975456700 , 7769050100 , 9069700100
BHMS : 9850111012 | B.Pharm : 9423863353 | Pharmacy : 9423320538

Fig 10.1.5 b6 Admission information diary

[illegible][illegible]



SAMARTH EDUCATIONAL TRUST
SAWKAR INSTITUTES
 Satara
 Website: www.sets.edu.in

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)

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 minimum 50% marks
- ITI / Diploma

No CET/JEE Entrance Examination



DBATU
Academic Excellence Award



NAAC Accredited from 2016



AICTE- CII Survey
Ranked as Platinum & Gold



EDUCATIONAL EXCELLENCE AWARDS - 2021
BANGALORE, KARNATAKA

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
Infostretch 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



SAMARTH EDUCATIONAL TRUST
SAWKAR INSTITUTES
 Website: www.sets.edu.in
Satara

SAWKAR HOMOEOPATHIC MEDICAL COLLEGE






Approved by CCH, New Delhi & Govt. of Maharashtra. Affiliated to MUHS, Nashik
 A.M.1/1, Additional MIDC, Degaon Road, Satara-415 004

Website : www.sawkarhmc.com Mob : 8237913663
 Director : Dr.Ravindra Bhosale 9850111012

Eligibility

- Candidate must have passed 12th Science with PCB Group
- 50 % marks for open & 45 % marks for reserved category
- NEET compulsory
- Marks criteria as decided by Government

Choice Code	Course Name
4115	B.H.M.S.







SAWKAR PHARMACY COLLEGE

website : www.sawkarpharmacycollege.com
 Approved by PCI, New Delhi & Govt. of Maharashtra & Affiliated to MSBTE, Mumbai

Jaitapur, Satara. Mob : 7796000100
 Principal : Dr.Vasant Lokhande 8275206073

Choice Code	Course Name
6492	D.Pharm





ARVIND GAVALI COLLEGE OF PHARMACY

website : www.arvindgavalipharmacycollege.com
 Approved by PCI, New Delhi & Govt. of Maharashtra & Affiliated to Shivaji University.

Jaitapur, Satara. Mob : 9665570772
 Principal : Dr.P.J.Shirete 7796000100

Choice Code	Course Name
6393	D.Pharm,B.Pharm,M.Pharm






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	Budgete d in 2021- 2022	Actual Expenses in 2021- 2022 till	Budgeted in 2020- 2021	Actual Expenses in 2020- 2021 till
Infrastructure Built-Up	1,100,000	1,028,673	3300000	3104976	0	0
Library	80,000	70,845	23000	30445	35000	13570
Laboratory equipment	1,100,000	1,060,990	1080000	1014157	655000	594030
Laboratory consumables	1,775,000	1,647,092	1120000	1023030	1055000	674170

Teaching and nonteaching staff salary	69,112,000	65,298,451	65100000	61189875	63560000	57326373
Maintenance and spares	2,875,000	2,700,109	3190000	2992063	1350000	1224440
R&D	350,000	314,190	290000	259388	90000	74700
Training and Travel	2,618,000	2,416,915	1710000	1659560	1600000	1474093
Miscellaneous expenses *(All remaining recurring exp., excl. Depreciation)	255,000	214,685	159500	148374	135000	113427
Others, specify (All remaining Capital exp.)	31,356,000	16,428,774	15177000	11686365	27540000	11287915
Total	110,621,000	91,180,725	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	110,621,000.00	91,180,725.65	82.43
2	2021-22	91,149,500.00	83,088,233.45	91.16
3	2020-21	96,020,000.00	72,782,719.21	75.80
4	2019-20	95,692,000.00	74,723,656.08	78.09
5	2018-19	103,474,520.00	72,322,428.67	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) 1303576		Actual expenditure (till...): (Amount) 1213137		Total No. Of Students (157)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
179836	1123740	172250	1040887	7727

Table B.10.3a: CFY(2021-22)

(Amount) 1475941		Actual expenditure (till...): (Amount) 1389112		Total No. Of Students (222)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
214983	1260958	203601	1185511	6257

Table B.10.3a: CFYm1(2020-21)

(Amount) 982800		Actual expenditure (till...): (Amount) 832410		Total No. Of Students (245)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
137800	845000	121320	711090	3398

Table B.10.3a: CFYm2(2019-20)

(Amount) 1321700		Actual expenditure (till...): (Amount) 1202240		Total No. Of Students (192)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
262000	1059700	245540	956700	6262

Table B.10.3a: CFYm3(2018-19)

(Amount) 1223400		Actual expenditure (till...): (Amount) 1168575		Total No. Of Students (169)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
393200	830200	71175	1097400	6493

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
Library	11418	10110	4483	5934	7000	2720
Laboratory equipment	157000	151430	210500	197667	130800	118600
Software	11418	10710	0	0	0	0
Laboratory consumables	253340	235092	218298	199400	210000	134570
Maintenance and spares	410340	385380	621760	583183	270000	244500
R&D	49960	44840	56500	50568	18000	15000
Training and Travel	373700	344960	333300	323460	320000	294393
Miscellaneous expenses	36400	30615	31100	28900	27000	22627
Total	1303576	1213137	1475941	1389112	982800	832410

Items	Budgeted in 2019- 2020	Actual Expenses in 2019- 2020 till	Budgeted in 2018- 2019	Actual Expenses in 2018- 2019 till
Library	31000	28840	68000	23775
Laboratory equipment	157000	147000	74000	47400
Software	74000	69700	251200	0
Laboratory consumables	303000	272000	263000	351000
Maintenance and spares	365000	341300	323000	310000
R&D	59000	53200	30700	26000
Training and Travel	316000	275900	184000	360000
Miscellaneous expenses	16700	14300	29500	50400
Total	1321700	1202240	1223400	1168575

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 Civil Department

Sr. No	Assessment Year	Allocated Budget	Adequate/ Non-Adequate
1	2022-23	1560859	Adequate
2	2021-22	1475941	Adequate
3	2020-21	982800	Adequate
4	2019-20	1321700	Adequate
5	2018-19	1223400	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 Civil Department

Sr. No	Assessment Year	Allocated Budget	Utilized Budget	Utilized Percentage
1	2022-23	1303576	1213137	93.06
2	2021-22	1475941	1389112	94.12
3	2020-21	982800	832410	84.70
4	2019-20	1321700	1202240	90.96
5	2018-19	1223400	1168575	95.52

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

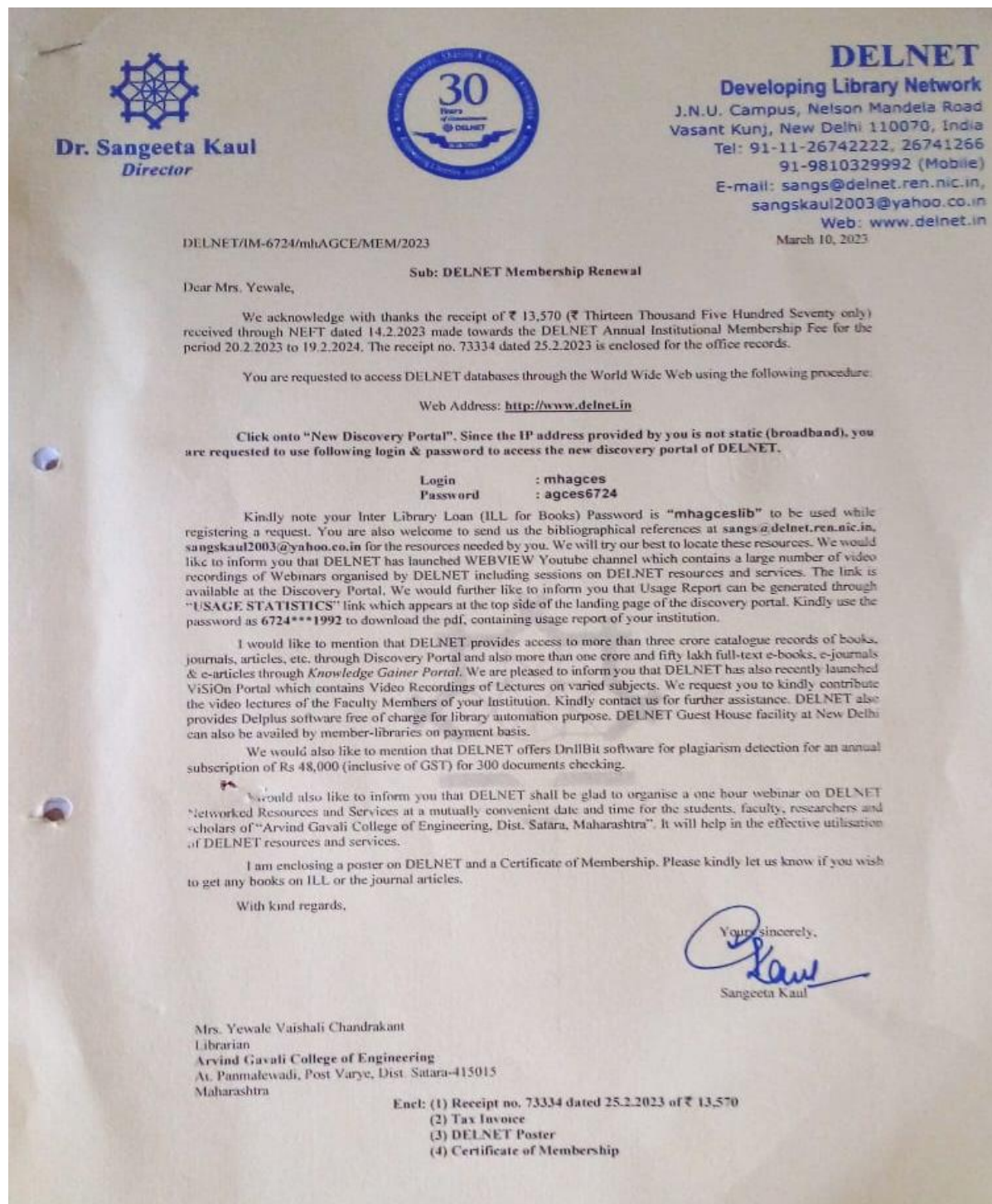


Fig 10.4a DELNET e Resource subscription 2023-24

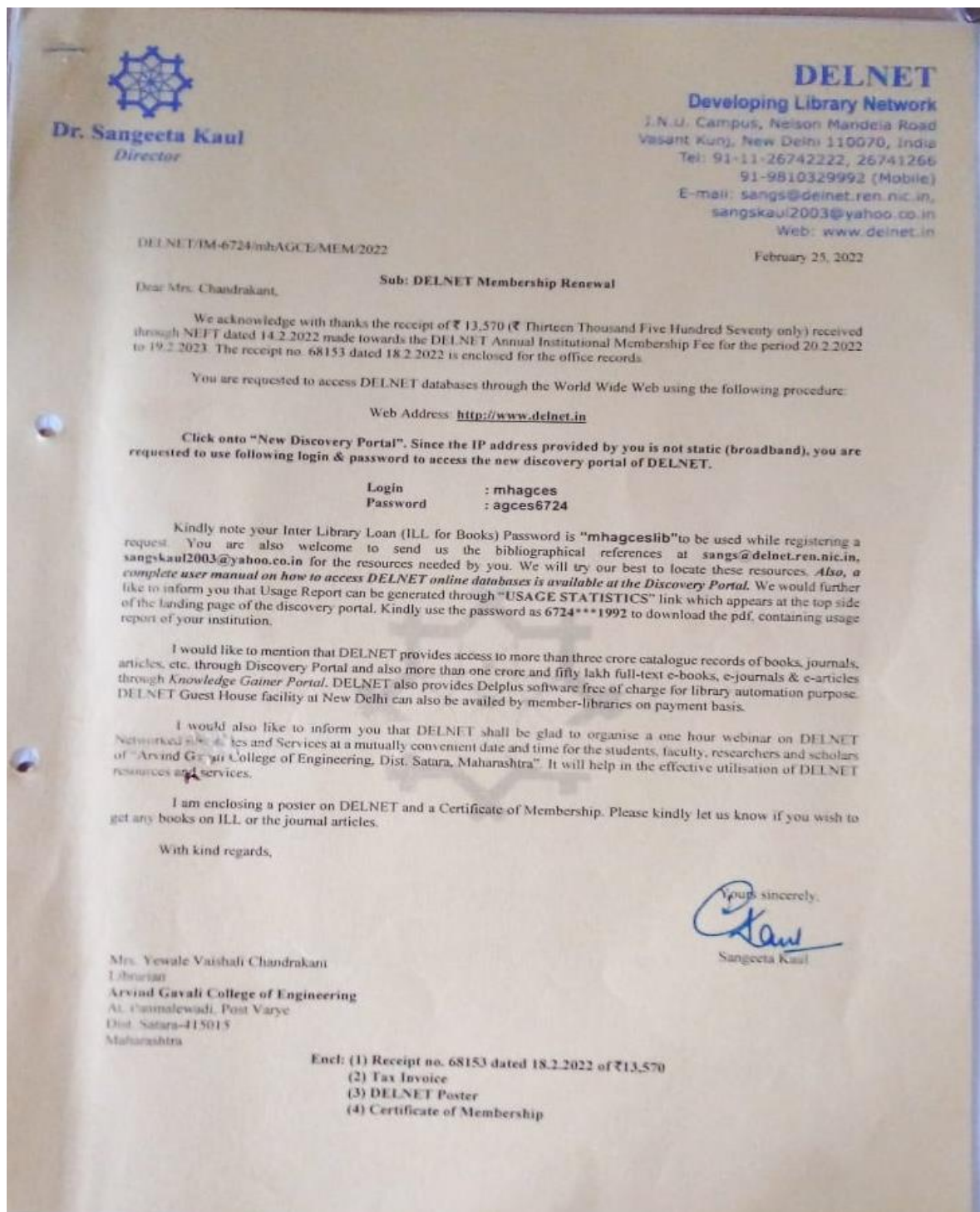


Fig 10.4b DELNET e Resource subscription 2022-23

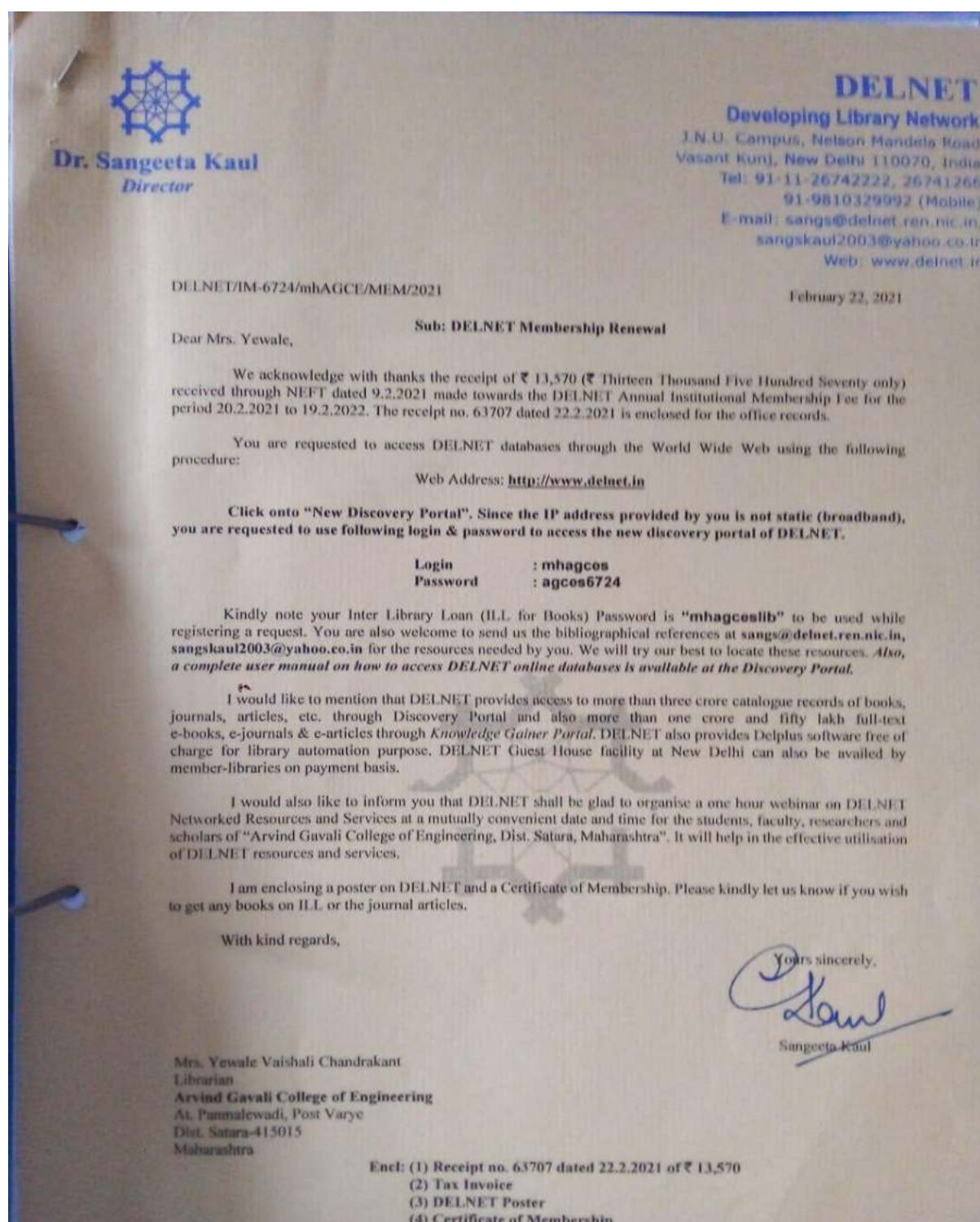


Fig 10.4c DELNET e Resource subscription 2021-22

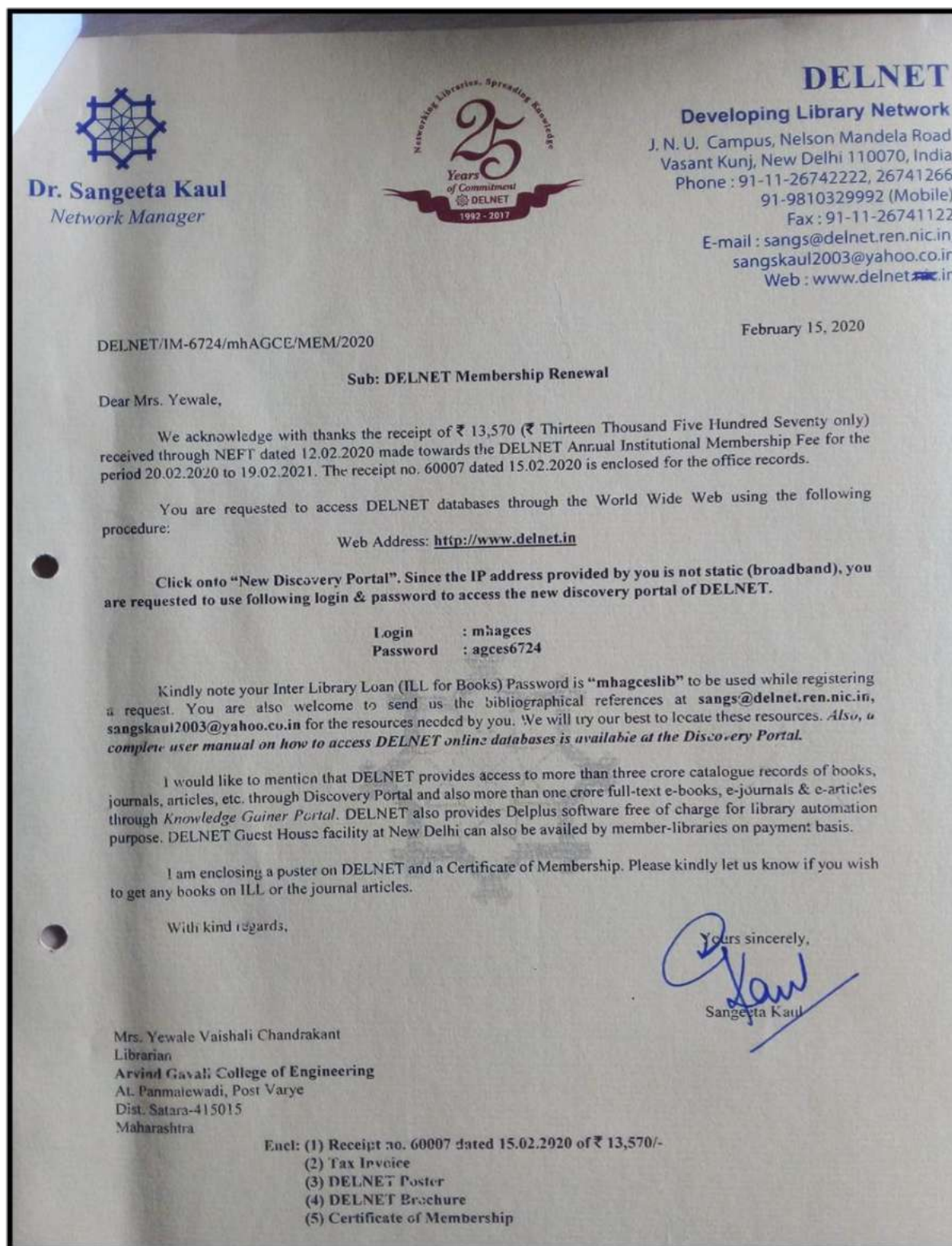


Fig 10.4d DELNET e Resource subscription 2020-21

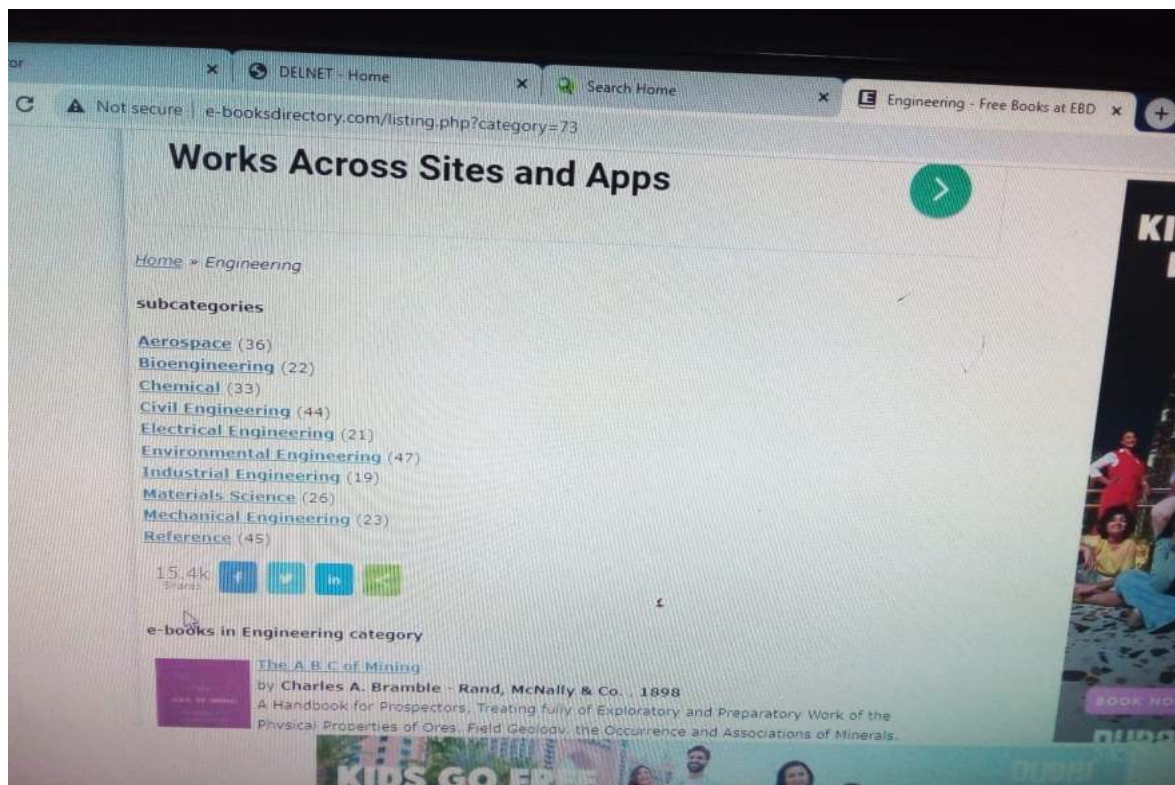


Fig 10.4e DELNET e Resource e Journal details



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	<p>Internet, Journals, Technical Magazine, Conference Proceedings, Newspaper, Photocopy, Printing & Scanning Soft copies of University Question papers & Syllabus shared through email</p> <p>Extended reading room facility during exam period Orientation to newly admitted students.</p> <p>Online public access catalogue.</p>

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

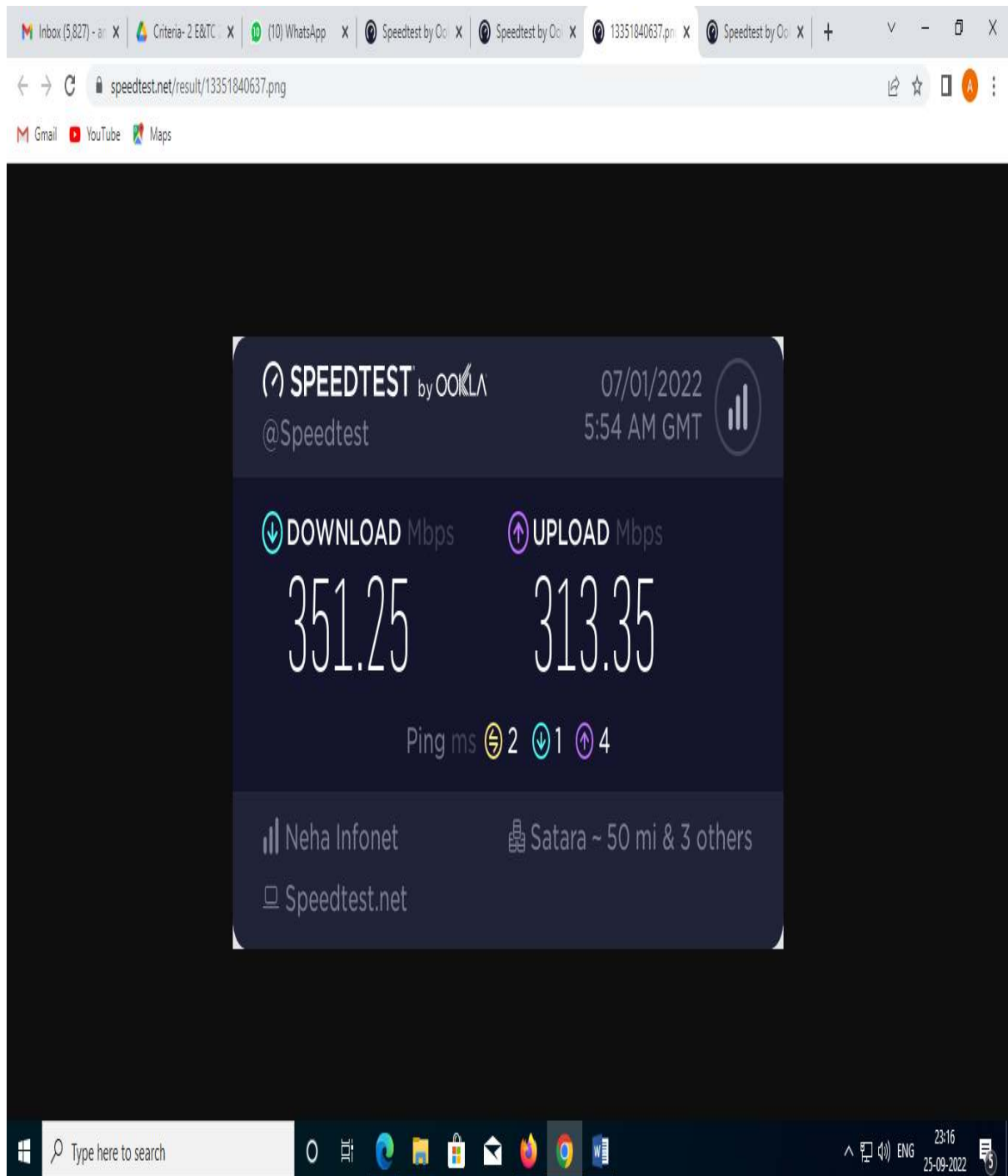


Fig 10.4.2.a Available band width: Speed Test 300 MBPS

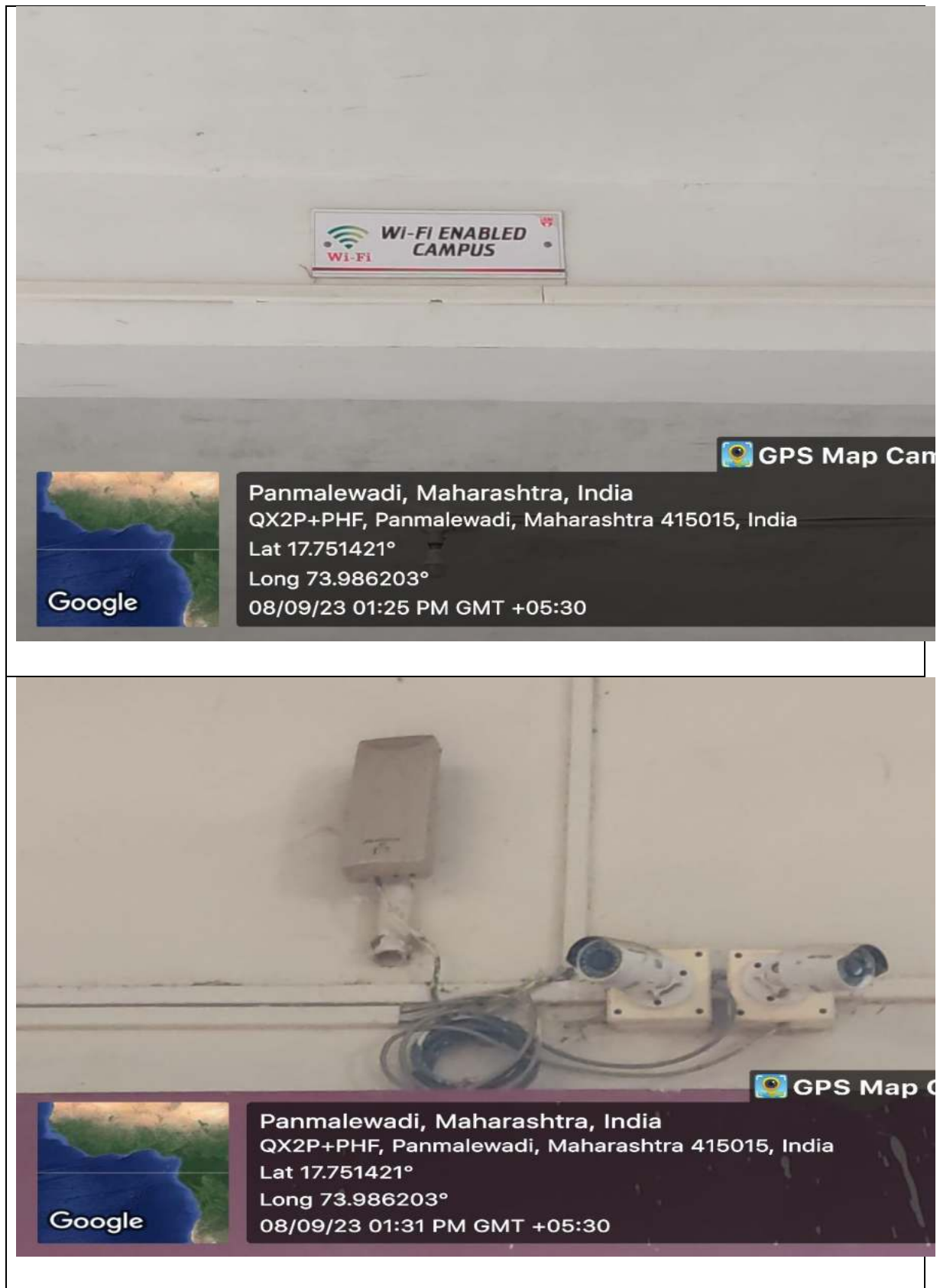


Fig 10.4.2.b Wi-fi facility available at institute

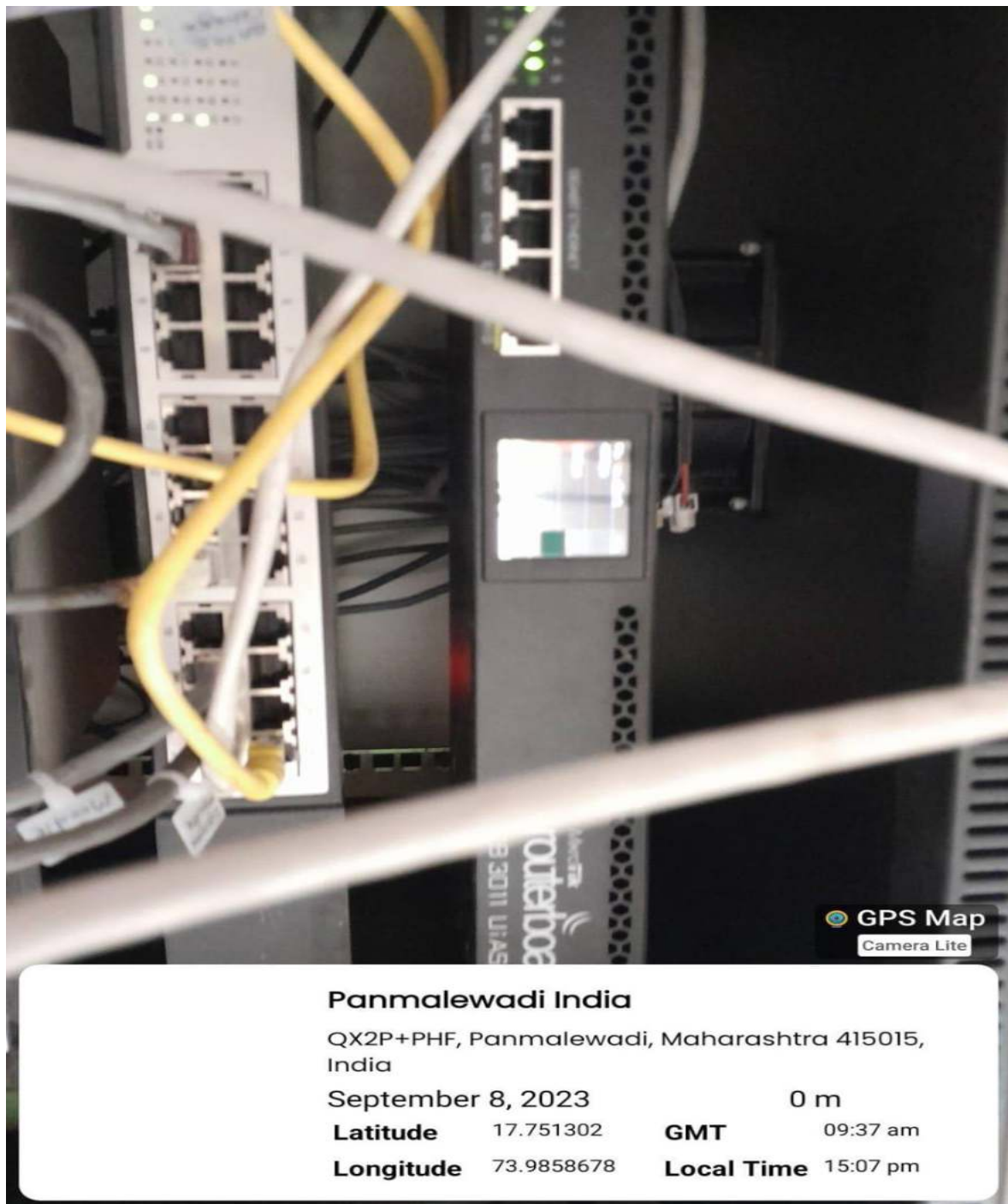


Fig 10.4.2.c Microtec layer 3 Manageable Switch