



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

**SAMARTH EDUCATIONAL TRUST ARVIND GAVALI
COLLEGE OF ENGINEERING**

**AT PANMALEWADI, POST VARYE, SATARA
415015**

<https://agce.edu.in>

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

January 2023

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Samarth Educational Trust established in 1988 at Satara by Hon. Shri. Arvind Gavali, Renowned Socialist and Businessman for imparting quality education to students and budding professionals in the field of Medical, Pharmacy and Engineering. Sawkar Homoeopathic Medical College started in 1988 at Satara MIDC campus, Sawkar Pharmacy college started in 2003 at Jaitapur campus, Arvind Gavali college of Pharmacy started in 2007 at Jaitapur campus, Arvind Gavali College of Engineering started in 2010 at Satara campus, Arvind Gavali College of Polytechnic started in 2012 at Satara campus, Sawkar Junior College started in 2013 at Satara campus while Arvind Gavali College of B.Voc started in 2021 at Satara campus. These all programs are started particularly for rural areas in Western Maharashtra region. This sprawling and fully integrated campus is strategically placed in around the city of Satara. Samarth Education Trust's Arvind Gavali College of Engineering (AGCE), Satara is committed to raising standards of performance and achievement of students in its institute. AGCE provides excellent educational opportunities in a dynamic learning environment to bring out well cultured and promising professionals in the conventional and emerging technologies. With Vision of Creating and Nurturing an environment to provide value based quality education to produce competent and skilled professionals keeping pace with changing technology, AGCE has a mission of transforming aspiring students from semi urban background into competent quality conscious professionals. The Institute has submitted SAR of four departments viz. Computer Science and Engineering, Electronics and Telecommunication Engineering, Electrical Engineering and Civil Engineering and now awaiting for NBA visit.. The Institute has received permanent affiliation from Dr. Babasaheb Ambedkar Technological University, Lonere. The Institute is making efforts to get autonomy in near future.

As a receipt of excellent governance and leadership; the Institute has received following awards:

1. CII Platinum and Gold ranking by AICTE.
2. Leadership excellence award given by DBATU Lonere
3. Best promising & trusted engineering college of the year Maharashtra award by Begin up research intelligence Pvt Ltd Bengaluru.
4. Appreciation award for the contribution as Host Institute for the conduction of University Level round of 'AVISHKAR 2022'.

Vision

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

Mission

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.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. The Institute is awarded with 'Leadership Excellence Award' from Dr. Babasaheb Ambedkar Technological University, Lonere by considering student centric approach, excellent teaching-learning process, co-curricular as well as extra-curricular activities in western region of Maharashtra.
2. By taking into consideration; innovative teaching approach, outstanding administration and social contribution in the region of western Maharashtra; the Institute is awarded with 'Most promising and trusted engineering college of the year 2021' award by Begin up research intelligence Private Ltd, Bengaluru during national educational excellence awards and conference 2021.
3. The Institute has culture to train and promote the students for appearing in state/national level competitions like AVISHKAR, ANVESHAN, HACKATHON, DIPEX etc. In national Level competitions; one student received gold medal in ANVESHAN while for HACKATHON competition; one student group presented their idea at Chhattisgarh state.
4. The CII survey recognized the Institute by Platinum and gold ranking. The Institute effectively implements AICTE internship policy. Final year students have to undergo 06 months internship in the industry. This has resulted into enhancement in the employability of students.
4. The Institute is located in Satara NH4 highway, with proximity to an industrial hub of Satara, Shirwal, Pune MIDC.
5. The Institute is located in pollution-free, green lush environment which is conducive for academic delivery.
6. The Institute is equipped with 05 Smart Interactive Panels and 10 e-classrooms enriching the learning experience of the students.
7. Qualified faculty members, well equipped laboratories and Stand-alone Library
8. Concessional inhouse bus facility from all corners of Satara district and subsidised canteen facility.

Institutional Weakness

1. PhD, NET/SET qualified faculty members are not available easily.
2. Satara is located nearer to Pune. Pune is known for number of technical institutes. Faculty members take the experience from the Institutes in Satara and migrate to Pune. So; retention of faculty members is difficult.
3. Being an affiliated Institute to DBATU Lonere; the Institute is having limited freedom in curricula structuring.
4. As majority of students are from rural areas; they need extra effort to groom with respect to soft skills and domain knowledge.
5. Though the Institute has initiated various R&D and Consultancy activities; still more efforts are required to be done.

Institutional Opportunity

- The Institute has submitted SAR of four departments viz. Computer Science and Engineering, Electronics and Telecommunication Engineering, Electrical Engineering and Civil Engineering and now awaiting for NBA visit.. The Institute has received permanent affiliation from Dr. Babasaheb Ambedkar Technological University, Lonere. The Institute is making efforts to get autonomy in near future.
- To develop Centre of excellence and Incubation Centres.
- To cater to the huge requirement of professionals in IT/Computer/ Electronics sectors.
- To develop skilled manpower in Civil/Mechanical sectors by offering vocational courses to the needy youth residing in the vicinity of the Institute.
- To be a part of the cluster of educational institutions offering inter-disciplinary/multi-disciplinary education, academic bank of credits and multiple entries/exits for the students inline with National Education Policy (NEP2020).
- To sign MOUs with International Institutions and Universities so as to gain global exposure for students and faculties through hybrid degree programmes, exchange programmes, research projects, summer schools and internships.

Institutional Challenge

- To train the students with rural background to be industry-ready.
- Students are eager to complete their graduation from metro cities. Being nearer to Pune; students are reluctant to complete their degree from the rural area like Satara.
- To motivate the students of Civil Engineering and Mechanical Engineering to pursue job/higher studies in their chosen core discipline when there is huge discrimination in the packages offered by different kinds of industry.

- Also, students form a heterogeneous batch merit-wise, since the ones enrolling for Civil and Mechanical Engineering programmes are of lesser merit compared to other programmes.
- To get and retain the faculty for Computer Engineering because of the growth in industrial opportunities.
- To continuously update the faculty members' know-how in the face of fast evolving technology.
- To produce quality publications, to float good research projects and fetch sizeable funding.
- To commercialize the granted IPs and products is challenging.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Curriculum planning and implementation is governed and monitored through Academic Monitoring committee (AMC). The Academic processes are planned based on the syllabus of DBATU compared with added content as per requirement in view of meeting local, global, national needs. Value added courses, content beyond syllabus is covered at different platforms in view of overall development of the students. Academic flexibility and bridging the gap between curriculum and industry is achieved by conducting workshops, seminars and signing MoUs with leading industries. Weak learners and advanced learners are identified and are given different assignments. Holistic development of students is achieved directly through syllabus and indirectly through various add-on courses, internships, participation through various competitions, industrial visits, major projects, guest lecture series, workshops etc.

Value added courses like soft skills/communication skills, aptitude, Campus to Corporate(C2C) etc, are also conducted in order to inculcate professionalism. Institute has made it mandatory for the students to undergo the internships/training in industry/corporate companies to enhance their employability. The Institute invites feedback from all the stakeholders which is collected online and based on the analysis, the corrective measures and progressive steps are taken. DBATU approved 100 unit NSS cell takes initiative to sensitize and inculcate values, rights, duties and responsibilities of citizens through various activities to nearby villages under Unnat Bharat Abhiyan, Government of Maharashtra.

Teaching-learning and Evaluation

AGCE is dedicated to providing quality education through effective teaching-learning processes for students' holistic development. Admission process is centralized and Institute is authorised DTE admission center for Satara district. Efforts are taken to serve students from different backgrounds and abilities. Institute is having student - full time teachers as per the norms and sufficient number of highly qualified (PhD, NET/SET) professors are available. Faculty uses conventional teaching and ICT to enable student-centered learning process. Faculty members update themselves with innovative teaching techniques by attending Workshops, STTPs, FDPs and certification programs. Institute promotes experiential learning with regular industrial/field visits, Industry Institute Initiatives like internships, sponsored projects etc. Participative learning provides problem-solving abilities, opportunity to gain professional values, knowledge and skills. The Institute has a structured method of pedagogy to address the needs of students with different backgrounds from advanced learners to average and slow learners. Advanced learners are motivated for higher studies and research. Slow learners are counselled and provided with additional course materials, remedial sessions and group studies. The evaluation processes are dynamic and updated from time to time. Rubrics for evaluation of internal assessment are well-defined. The evaluation process is transparent and carried out efficiently. Exam-related grievances are

addressed in accordance with University and Institute policies. Each course is planned and delivered to achieve stated objectives and outcomes. CO-PO attainment is calculated for each course using different assessment tools. Attainment level of all COs is obtained based on the student's performance in the internal and external examinations. Course end survey is taken from students. Similarly, the feedback is obtained from all stakeholders on regular basis. Gap analysis is done and corrective measures are implemented. All departments have defined PSO and added many co-curriculum activities. The outcome of all these activities is the continuous improvement in University results, patent filing by students, achievements in state/national level competitions, consultancy work by students along with faculty members etc.

Research, Innovations and Extension

Dr Mirajkar G S. (Dean R&D) is taking number of initiatives to boost research and consultancy activities since last five years.

The R&D committee promoted and published industrial/innovative problem statements. Students, in association with faculty members selected problem statements according to their areas of interest. 01 international patent and 05 Indian patents are filed by the students along with faculty members.

Final year students are provided with alumni mentor to guide for their projects. Project reviews are taken through the industrial persons so that students get the opportunities to directly interact with outstanding entrepreneurs/engineers excelling in their field.

Institution Innovation Council (IIC) organized various activities which gives real time exposure to the students. The Institute received certification of appreciation from office of controller general of patents on 23th January 2023 for participation of maximum number of students in the 'National Intellectual Property Awareness Mission (NIPAM)' launched by the government of India.

Students are encouraged to learn by participating in various competitions like AVISHKAR, ANVESHAN, HACKATHON, DIPEX etc. The Institute has achieved remarkable achievements in these competitions with the help of guidance from faculty members.

Institute has completed the consultancy work for geotagging of trees, water audit, energy audit in Pachgani nagar parishad. Also, water audit and energy audit of Vaduj gram panchayat is successfully done by the students along with faculty members. These activities are completed under 'Mazi Wasundhara Abhiyan 2.0', Government of Maharashtra. Faculty members also contributed in generating the revenue through consultancy work done for the industry.

The Institute has initiated to set-up e-yantra Lab (supported by IIT Bombay). This lab is equipped with a Fire Bird ATMEGA2560 robot received from IIT Bombay.

Institute is sensitive to community problems and also work under Unnat Bharat Abhiyan through NSS cell coordinated by Mr Ankur Kamble for past several years and already done significant work in the nearby villages related to drinking water, sewage treatment etc. By taking into consideration the initiatives and active participation of the students along with faculty coordinator Ms. Shital Waghmare; the Institute received appreciation by 'Dalit Mahila Vikas Mandal' organisation Satara under 'lek ladaki abhiyan'.

Infrastructure and Learning Resources

The Institute adheres to AICTE norms and requirements regarding infrastructure facilities, library framework for books, e-resources and IT support. These facilities are maintained in view of meeting POs, Mission and Vision of the Institute.

The Institute has an instructional area of 7996.113 sq meter (consisting of Class rooms, Tutorial Rooms, Laboratories, Workshop, Additional Laboratory/ Workshop, Drawing Hall, Computer Centre, Seminar Hall, Library), administrative area of 1292.9 sq meter (consisting of Principal office, board room, cabin for HOD , faculty rooms), amenities area of 1146.97 sq meter (includes toilets, common rooms for girls and boys, hostel) and circulation area of 2608.996 sq meter (include common walkways, staircases, entrance lobby).

The Institute is well equipped with seminar hall having IIT Bombay remote center utilised for the 10000 teachers training program.

Institute has a department-wise interactive panel with advanced features for enhancing the learning experience of the students. Laboratories and workshops have the necessary conventional and beyond the syllabus equipment. Laboratory equipment, fire extinguishers, water tanks/coolers, DG set and experimental setups are serviced properly before starting the new semester. Corrective actions are initiated to maintain equipment and laboratory setup in working condition. Preventive maintenance is carried out in-house by the supporting staff.

Central library is WiFi enabled and has a 150-capacity reading hall. The library is well-equipped with 14081 text books, 1687 reference books, 4476 e-books. The library has been automated using library management software 'BIYANI TECHNOLOGY & KOHA'. Login and password are given to all the students through which the student can access the library material for 24 hours a day. The record of books issued to students and staff was maintained through software. OPAC system facilitates students to search for books available and also to make requisitions. The library is subscribed to e-Journals through scientific databases such as DELNET.

Institute has 319 computers, Wi-Fi facility, 300 MBPS internet connectivity provided by Neha infotech. MOODLE is deployed for effective academic related activities. Institute has several licensed and open-source software.

Sports instructor takes care of all the activities related to Gymkhana department. The Institute has open Jim which is sponsored by alumni.

Student Support and Progression

The Institute provides necessary support, facility and environment to enable the students to achieve their professional goals.

The Institute follows AICTE internship policy. Final year students have to undergo 06 months internship in the industry. These students are provided with internship diary which is to be maintained on daily basis by the students. The opportunities of getting placements are increased by this activity.

The Institute has also supported the students who lost their parents during the last pandemic by giving financial relaxation.

The Institute takes efforts to improve their soft skills through the sessions planned in their regular time table. Mr Abhay Kale and Ms Nikita Bhilare conduct these sessions and arrange various activities for developing the soft skills of these students. For aptitude sessions; weekly 02 hours are allotted in the time table. Separate lesson plan for 40 hours is prepared and accordingly delivered by the faculty members Mr Suhas Patil and Mrs Ashwini Kasture.

Along with scholarships provided by the government; the Institute is promoting students to appear for various industrial scholarships like Cummins Scholarship, K C Mahindra Scholarship, LIC Scholarship, etc. Ms Nikita Bhilare and Mr Abhay Kale takes special efforts for getting these scholarships.

Our Institute has been taking continuous efforts for our students to be admitted to foreign universities for higher education. We have a MOU with 'Chinmay Educational Consultancy' Pune through which many of our students' gained admissions to the universities in Germany/US/Australia/Canada etc. Institute takes special efforts to teach foreign languages like German, Japanese etc in its campus. On every Thursday; these foreign languages are taught by the expert Mrs Shalegram. Also, Institute has given opportunity to the students to study Japanese language by selecting this subject from the list of optional subjects.

Infrastructure has been provided for sports and cultural activities. The Institute has a well-defined mechanism for redressal of grievances of students through various committees formed as directed by regulating authorities. Institute organizes alumni meet every year. Alumni contribute in delivering guest lecture, guidance and evaluation of projects, seminars and help in organizing industrial visits, value-added courses, and placement.

Governance, Leadership and Management

The Institute has a transparent governance and management. AGCE has a well-established organizational structure for its governance and smooth functioning. Various bodies viz. Governing body (GB), College development committee (CDC), Internal Quality Assurance Cell (IQAC), Institute/Department level committees are formed with representation from all stakeholders. Department Advisory Boards (DABs) are formed to support and advice departments. In CDC and Governing Body, review of progress is taken periodically. E-governance is used to streamline the operations. IQAC has been formed and ISO certification done. It conducts regular audits of academic and administrative processes. The Institute has a set of well-defined welfare policies to ensure students' and employees' overall development and welfare. Institute encourages and empowers students for higher studies and also supports its staff financially to participate in various seminars/workshops/conferences/trainings. Institute organizes professional development/administrative training programmes for teaching/non-teaching staff.

The Institute follows the Self- Appraisal System for the staff. There is a policy to promote internal faculty. Institute has transparent financial policies including sanction of budget, purchase and audits to ensure appropriate utilization of funds for academic, administrative and development purposes. The functioning and policies have resulted in healthy environment and contributed towards the achievement of its Mission,

As a receipt of excellent governance and leadership; the Institute has received following awards:

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3. Best promising & trusted engineering college of the year Maharashtra award by Begin up research intelligence Pvt Ltd Bengaluru.
4. Appreciation award for the contribution as Host Institute for the conduction of University Level round of 'AVISHKAR 2022'.

Institutional Values and Best Practices

AICTE has recognised our Institute with Platinum and Gold ranking under CII survey. Final year students have to undergo 06 months internship in the industry. The students have been provided with a diary which is to be maintained by the respective student during the period of internship. The structure of this diary is designed as per the AICTE internship policy which enhanced the employability of the students.

Students are encouraged to learn by participating in various competitions like AVISHKAR, ANVESHAN, HACKATHON, DIPEX etc. The Institute has achieved remarkable achievements in these competitions with the help of guidance from faculty members.

The R&D committee promoted and published industrial/innovative problem statements. During A.Y 2021-22; 01 international patent is filed by Dr G S Mirajkar, 02 Indian patents are successfully filed by the students along with their faculty members. During last five years total 06 patents are filed.

Institute has completed the consultancy work for geotagging of trees, water audit, energy audit in Pachgani nagar parishad. Also, water audit and energy audit of Vaduj gram panchayat is successfully done by the students along with faculty members. These activities are completed under 'Mazi wasundhara Abhiyan 2.0', Government of Maharashtra.

Institute website has a link for accessing MOODLE account where the respective student/faculty can login to their account by entering user id and password. All study material including PPTs, PDFs, e-books etc are uploaded by respective faculty members for the reference of students.

Along with scholarships provided by the government; the Institute is promoting students to appear for various industrial scholarships like Cummins Scholarship, K C Mahindra Scholarship, LIC Scholarship, Directorate of India Army Veterans, Maharashtra Kamgar Kalyan Mandal Scholarship, Prime Minister's Scholarship, Kalyankari Scholarship, Friends of Children Scholarship, Pune, Primary teacher scholarship, Indiabulls Foundation Scholarship etc. The Institute takes special efforts on students to become eligible to receive these scholarships. Ms Nikita Bhilare and Mr Abhay Kale conduct these sessions on regular basis. The students who have already received these scholarships work as mentors for the new students. Hence the count of students getting the private scholarships is increasing every year. The Institute also offers its own scholarship under the heading of 'SAWKAR Scholarship' to the meritorious students having poor family background.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	Samarth Educational Trust Arvind Gavali College of Engineering
Address	At Panmalewadi, Post Varye, Satara
City	Satara
State	Maharashtra
Pin	415015
Website	https://agce.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Vilas Arjun Pharande	02162-200100	8806661739	-	agcenggsatara@gmail.com
IQAC / CIQA coordinator	Vishal Sharad Hingmire	02162-261122	8482875175	-	agce.iqac2010@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	

State	University name	Document
Maharashtra	Dr. Babasaheb Ambedkar Technological University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	03-07-2022	12	AICTE latest approval

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	ISO Artificial Intelligence Registration and Certification Limited
Date of recognition	17-04-2022

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	At Panmalewadi, Post Varye, Satara	Rural	10	13345.83

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Civil Engineering	48	HSC and MHTCET or JEE	English	60	3
UG	BTech,Computer Science Engineering	48	HSC and MHTCET or JEE	English	120	120
UG	BTech,Electrical Engineering	48	HSC and MHTCET or JEE	English	30	30
UG	BTech,Electronics And Telecommunication Engineering	48	HSC and MHTCET or JEE	English	30	30
UG	BTech,Mechanical Engineering	48	HSC and MHTCET or JEE	English	90	28
UG	BVoc,Industrial Tool Manufacturing	36	HSC	English	30	4
UG	BVoc,Industrial Automation	36	HSC	English	30	12
UG	BVoc,Data Science	36	HSC	English	30	21
UG	BVoc,Software Development	36	HSC	English	30	26
PG	Mtech,Heat Power Engineering	24	B Tech	English	18	5

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	6				13				50			
Recruited	5	1	0	6	5	1	0	6	30	20	0	50
Yet to Recruit	0				7				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				8			
Recruited	0	0	0	0	0	0	0	0	4	4	0	8
Yet to Recruit	0				0				0			

Non-Teaching Staff						
	Male		Female		Others	Total
Sanctioned by the UGC /University State Government						40
Recruited	29		11		0	40
Yet to Recruit						0
Sanctioned by the Management/Society or Other Authorized Bodies						0
Recruited	0		0		0	0
Yet to Recruit						0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				18
Recruited	12	6	0	18
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	5	1	0	5	1	0	0	0	0	12
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	30	28	0	58
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	3		0		3

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	793	0	0	0	793
	Female	404	0	0	0	404
	Others	0	0	0	0	0
PG	Male	6	0	0	0	6
	Female	2	0	0	0	2
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	57	52	38	27
	Female	26	30	22	22
	Others	0	0	0	0
ST	Male	4	2	2	1
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	100	106	85	93
	Female	57	54	49	57
	Others	0	0	0	0
General	Male	612	624	521	515
	Female	318	398	362	334
	Others	0	0	0	0
Others	Male	47	58	49	39
	Female	33	36	27	16
	Others	0	0	0	0
Total		1254	1360	1155	1104

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:

The Institute is associated with the DBATU Lonere, Maharashtra, where academic programmes have been updated to incorporate multidisciplinary courses as electives. Second year syllabus is having the course named as 'Basic Human Rights' which is delivered by an advocate in which students are oriented about their basic rights as a civilian of the country. Also, third year syllabus is having the course named as 'Technical project for community services' in which students are supposed to take problem statement from nearby villages and suggest/implement the solution for the same. In addition to it; the Institute promotes its students for opting the major/minor degree in addition to regular degree. With respect to NEP 2020; the Institute has started three years duration B.Voc program which enables multiple entries and exits. After completion of the 1st year; the student will get a diploma certification and can the admission to direct second year B.Tech program; at the end of the 2nd year; he/she will get advanced diploma certification and after completion of 3rd year; he will get the degree certification. After completion of the degree; student becomes eligible to secure admission for higher education like MS, MBA etc. To engage the students in more multidisciplinary research endeavors; the Institute encourages its students to participate in various competitions viz. AVISHKAR, HACKATHON, ANVESHAN, DIPEX etc. AGCE conducted University Level AVISHKAR 2022 competition in association with DBATU Lonere on 24.12.2022. In this competition; one gold medal and one silver medal was awarded to our PG category students Mr Akhaykumar Kadam and Ms Shivani Kakade respectively. During the last five years total 02 gold medals and 01 bronze medal were won by our students at the University level AVISHAKR competition. The Institute has also conducted zonal level AVISHKAR 2019 competition in association with DBATU Lonere on 09.11.2019. Total 04 gold medals and 02 silver medals were won at zonal level AVISHKAR competition. Also for the national level competitions; one student received gold medal in ANVESHAN while for HACKATHON; one student group presented their idea at Chhattisgarh state. Two students Mr Shrikant Shejval and Mr Vishwanath Metkari presented their innovative projects in DIPEX. The Institute also gives exposure to the students by arranging science day, inhouse project

	<p>competition, project review through industrial personnel. The Institute has MOODLE as learning management tool through which every student will access any course material of his/her branch by using his login credentials. The library has been automated using library management software 'BIYANI TECHNOLOGY & KOHA'. During A.Y 2021-22; 01 international patent is filed. Total 06 patents are filed by the Institute. Also the Institute strictly follows the guidelines given by AICTE regarding the internship policy. The Institute motivates final year students to do internships of 06 months duration. The Institute promotes students for registering for interdisciplinary courses using SWAYAM/NPTEL platform. The Institute also has IIT remote center through which students and faculty members can enroll for interdisciplinary courses and can learn them by the medium of video conference.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>Our institution preparedness in implementation of Academic Bank of Credits conforms to the guidelines of the affiliated university i.e. DBATU. DBATU being state university is an official member of the National Academic Depository which is a government endeavor to offer an online repository for all academic awards under the Digital India Programme. DBATU is in the process of uploading students' mark sheets and degree certificates through the nad.digitallocker.gov.in platform through its affiliated colleges. Institute has partially completed the process of creating centralized database of the college students. Through this database, where in the academic credits earned by the student from various courses will be digitally stored so that the credit earned by student previously could be forwarded when the student enters the program again. For monitoring ABC, proper technical support is available. With respect to NEP 2020; the Institute has started three years duration B.Voc (Bachelor of Vocational) program which enables multiple entries and exits at the end of 1st, 2nd and 3rd years of undergraduate education. After completion of the 1st year; the student will get a diploma certification and can the admission to direct second year B.Tech program; at the end of the 2nd year; he/she will get advanced diploma certification and after completion of 3rd year; he will get the degree certification. After completion of the degree; student becomes eligible to</p>

	<p>secure admission for higher education like MS, MBA etc. This program consists of 06 months of internship every year for imparting the practical skills amongst the students. Our Institute has been taking continuous efforts for our students to be admitted to foreign universities for higher education. We have a MOU with 'Chinmay Educational Consultancy' Pune through which many of our students gained admissions to the universities in Germany/US/Australia etc. Institute takes special efforts to teach foreign languages like German, Japanese etc in its campus. On every Thursday; these foreign languages are taught by the expert Mrs Shalegram. Faculty members upload all the course material on MOODLE. Each student can go through the contents uploaded by the faculty members by using login credentials. Faculty member assesses the understanding of the students through the assignments which are based on Course Outcomes. These assignments are solved by the students during exclusively available 'library hours' in their regular time table. Also, the Institute encourages its students to earn and deposit credit through national programmes like SWAYAM, NPTEL etc. The Institute is recognized as Active SPOC by IIT Madras. students are encouraged for enrolment, registration, solving of the assignments etc of NPTEL courses under the guidance of NPTEL coordinator Ms Samina Mulla.</p>
3. Skill development:	<p>The institute has an established T&P cell which actively participates to strengthen the current trends required in industry by conducting various sessions like Campus to Corporate (C2C), Aptitude sessions, soft skills etc. These sessions are the part of their regular time table for all eight semesters. Mr Suhas Patil and Mrs Ashwini Kasture conducts the sessions of aptitude while the soft skill sessions are conducted by Mr Abhay Kale. Along with the scholarships provided by the government and the Institute; the Institute is promoting students to appear for various industrial scholarships like Cummins Scholarship, K C Mahindra Scholarship, LIC Scholarship, Directorate of India Army Veterans, Maharashtra Kamgar Kalyan Mandal Scholarship, Prime Minister's Scholarship, Kalyankari Scholarship, Friends of Children Scholarship, Pune, Primary teacher scholarship, Indiabulls Foundation</p>

Scholarship, Sitaram Jindal Scholarship etc. The Institute takes special efforts on students to become eligible to receive these scholarships. Ms Nikita Bhilare and Mr Abhay Kale conduct these sessions on regular basis. The students who have already received these scholarships work as mentors for the new students. Hence the count of students getting the private scholarships is increasing every year. Recently; Eleven students were awarded with the Cummins scholarship, three students received K.C. Mahindra scholarship and one student received LIC scholarship. All these students received financial assistance as well as industrial mentor for projects, seminars. The institution is providing value-based education to inculcate positivity amongst the learner that include the development of humanistic, ethical, constitutional, and universal human values of truth (satya), righteous conduct (dharma), peace (shanti), love (prem), nonviolence (ahimsa), scientific temper, citizenship values, and also life-skills. Universal human value of truth (satya), nonviolence (ahimsa) and righteous conduct (dharma) are imparted through the celebration of various commemorative days like Mahatma Gandhi Jayanti, Swami Vivekanand Jayanti. Also, the Universal values of peace (shanti) and love (prem) are imparted through organisation of various seminars of Yoga, meditation, art of living, lek ladaki abhiyan etc. Humanistic, ethical, constitutional values are imparted through the conduction of various guest lectures, conduction of the course 'Basic Human Rights' through a advocate, induction program, class orientations etc Institute encourages its students to enroll for skill orientated courses offered by IDBI (Industrial Development Bank of India) which delivers the certification courses under Ministry of skill development. These courses consist of various modules as two-wheeler mechanic, CCTV installation etc The Institute has also offered PMKVY-TI to enhance the skills of the students. The main objective of this project is to provide skill-based training to the school and college drop outs who to pursue/attain higher order skills and living in the vicinity of college. National Skill Development Corporation (NSDC) is the Strategic Partner in implementing PMKVY – TI project with AICTE. During A.Y. 2017-18; the Institute received approval to run 09 courses viz. LED, peripherals, 2/3 wheeler,

	<p>machining, consumer meter, electrician, software, data entry and welding.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>As a part of the NEP-2020 implementation, students are motivated to use SWAYAM platform for learning courses of engineering in regional languages. To improve confidence in students from poor, rural and tribal backgrounds, faculty members are using combination of English, Hindi and Marathi as a medium of instruction in teaching learning process. For diploma students; Institute has offered bilingual option for better understanding to the students and to promote Indian languages for diploma students. The Institute has taken the approval for the same from MSBTE. The cultural awareness is developed by motivating them to participate in cultural activities under the events like TARUNAI, celebration of various cultural days, celebration of various commemorative days.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>Institute emphasizes on outcomes-based education (OBE) which is reflected in the curriculum design, teaching & learning process and assessment of the students. Learning by doing i.e., experiential learning is adopted in the curriculum which includes mini projects, major projects, internships etc. All final year students have to complete 06 months internship in the industry. The assessment of this internship is done with the help of duly signed internship diary from the concern HR of the industry. AGCE has clearly stated Institutes Vision & Mission, Department's Vision & Mission, Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and course outcomes (COs). COs are designed such that these are mapped with program outcomes, program specific outcomes and aligned with NEP policies. All courses are designed with outcomes centered on cognitive abilities namely Remembering, Understanding, Applying, Analyzing, Evaluating and Creating. Apart from the domain-specific skills, learning outcomes at all levels ensure social responsiveness and ethics, as well as entrepreneurial skills so that student contribute proactively to economic, environmental and social well-being of the nation. Institute has practice to incorporate various innovative tools like project-based learning, problem-based learning, ICT tools. After student's evaluation, all attainments of COs, POs and PSOs are measured and action plan is written to improve the respective attainment in the</p>

	<p>future. AGCE follows the guidelines of AICTE internship policy. The Institute encourages all students to complete their internships during 8th semester/summer vacation/winter vacation. The students have been provided with a diary which is to be maintained by the respective student during the period of internship. The structure of this diary is designed as per the AICTE internship policy. In this diary the student mentioned the details of company's profile, its departmental layout, details of the duties performed by the student daily. After the internship, certificate of successful completion of training is given to the student. Institute monitors the status of internship performance by physically visiting the industry where he/she is placed. The Research and Development committee promoted and published industrial/innovative problem statements. Students, in association with faculty members selected problem statements according to their areas of interest. During A.Y 2021-22; 01 international patent is filed by Dr G S Mirajkar, 02 Indian patents are successfully filed by the students along with their faculty members. During last five years total 06 patents are filed. Institute has completed the consultancy work for geotagging of trees, water audit, energy audit in Pachgani nagar parishad. Also, water audit and energy audit of Vaduj gram panchayat is successfully done by the students along with faculty members.</p>
6. Distance education/online education:	<p>Due to Covid -19 pandemic, AGCE has increasingly involved in using the digital platforms for engaging classes, conducting meetings etc. Faculty members encourage the students to enroll for MOOC courses which promotes the blended system of learning. Faculty members use ICT tools so as to have better understanding of the students. Few of the ICT tools used are Smart interactive panels, Projectors, MOODLE Learning Management System, Zoom and Google Meet applications for delivering online lectures. There are 10 E-class rooms in the institutes out of which 5 class rooms are equipped with smart interactive panels. As per the syllabus of DBATU; Final year students need to complete the internship in the industry. For such students; the Institute conducts their classes in online mode during evening session.</p>

Institutional Initiatives for Electoral Literacy

<p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p>	<p>Arvind Gavali College of Engineering has established an Electoral Literacy Club with the main goal of educating the students about democratic rights, including the right to vote in elections. The Institute uses An Electoral Literacy Club as a platform to engage students through interesting activities and hands-on experience to sensitise them on their electoral rights and familiarise them with the electoral process of registration and voting. Activities and Games are designed to stimulate and motivate students provoking them to think and ask questions. Through ELC, the Institute aims at strengthening the culture of electoral participation among young and future voters. ELCs have been established by the Institute for New Voters who are aged between 18-21 year.</p>
<p>2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?</p>	<p>The Institution has the ELC functional with the following members: 1 Dr. V. A. Pharande Principal Chairman 2 Mr. A.V.Kamble Faculty - Mechanical Coordinator 3 Ms. A.D.Kasture Faculty – Core Science Member 4 Mr.V.S.Nikam Faculty – Civil Member 5 Mr.V.B.Gujar Faculty – CSE Member 6 Ms.S.P.Pawar Faculty – Core Science Member 7 Ms. Shravani Pawar Student – E&TC Member 8 Ms. Sakshi Chinchkar Student - CSE Member 9 Mr Rohit Kadam Student- Electrical Member 11 Mr Atul Kadam Student - Civil Member 12 Mr Nisar Mustan Student- Mechanical Member ELC consists of student members along with faculty members. The activities under ELC are planned at the start of the semester and executed accordingly. Mr A V Kamble acts as the Nodal Officer for the ELC. His role is focused on following activities: I. Promoting and supervising Club enrolment. II. Coordination between the District Election Officer and the ELC for exchange of resources, information etc III. Guiding and supervising the ELC activities as per the pre-planned calendar.</p>
<p>3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of</p>	<p>Following innovative programs are undertaken by the ELCs: 1. The Wall of Democracy: The idea behind a wall magazine is to create and share electoral literacy information in an interesting, creative and engaging manner and encourage participation from all students. For this purpose, the wall in a prominent part of the Institute is used. This wall is called as 'Wall of</p>

<p>ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p>	<p>Democracy'. The wall displays various contents related to electoral literacy which are pasted or pinned or painted. Institute administration allots a wall space or display board in the identified corridor. The Theme of the wall magazine will keep changing frequently. 2. Ballot Bistro Ballot Bistro consists of discussion and brainstorming sessions in the college canteen, moderated by ELC members on subjects pertaining to youth inclusion, engagement and involvement in the electoral procedure. 3. Video orientation program Conducted in collaboration with Photography club which help to generate awareness about the subject under consideration of electoral processes, elections, democracies, citizens' rights and duties. 4. Poster presentation: Students are given with various themes related to electoral process and the posters based on the given theme are asked to present. The posters are evaluated as per the evaluation guidelines and prizes are distributed. 5. Electoral oath: Electoral oath is taken by all the students on National Voters' Day, celebrated on 25 January of every year. Its purpose is to encourage young voters to take part in the electoral process.</p>
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>The Institute conducts special drive-in nearby villages for orientation about electoral process through Electoral Literacy Club. During this drive; groups of students meet to the civilians of the village by going to each home and counsel them about the electoral process and required information. Following things are mainly focussed by the students: • To ensure that the target audience exercises their right to vote in a self-assured, relaxed, and morally responsible manner by helping them realise the importance of their vote. • To promote educated, ethical voting and uphold the principles of "Every vote count" and "No Voter to be Left Behind" by creating a culture of civic engagement. • To educate about the 'Ethical Voting' and its importance for the society. Institute promotes the faculty members to work as election officer in the electoral process. Mr Suhas Patil, Mr V.S.Hingmire, Mr S S Ghadage, Mr D B Jagtap etc worked as election officer and performed their duties smoothly.</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible</p>	<p>Students over the age of 18 who must register as voters are educated about their democratic rights, which include the right to vote in elections. To provide a hands-on introduction to the democratic</p>

students as voters.

system, we organize orientation session of students with electoral officer. We also hold various activities like taking electoral oath, poster presentation, quiz competition, ballet bisto etc. For disseminating the information regarding the electoral process; a separate notice board is reserved. This notice board is open for all the students to showcase their unique ideas, essay, panting, poster related with electoral process.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1254	1361	1155	1104	996

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 168

File Description	Document
Institutional data in the prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
73	76	72	72	91

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
177.9	148.62	161.87	216.84	229.45

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

The Academic Monitoring Committee (AMC), which includes all departmental members, makes sure that the university's curriculum is effectively followed. The institute prepares its academic calendar in accordance with the university calendar prior to the commencement of the academic year. Every department prepares an academic calendar based on the institute's academic calendar, which is then approved by the Departmental Advisory Board (DAB).

The distribution of workloads within departments is done in accordance with the choices given by the faculty members. Each faculty member prepares their course files in accordance with the academic audit format I that DBATU has provided. Students get access to all of the academic content created by faculty members via MOODLE. Students are provided with the essential books and study materials through the book bank service offered by the library.

The periodic examinations viz. Continuous Assessment 1(CA1), Mid Semester Examination (MSE) and Continuous Assessment 2(CA2) are conducted in order to assess the understanding of the students. Remedial exams are conducted for weaker students. Faculty members give their best efforts to ensure quality education and to enhance academic growth. The faculty members used teaching aids viz. Interactive Panel, Powerpoint Presentations for elaborating principles in the respective courses.

Practical, theoretical & oral examinations are conducted to judge the understanding of the students. After evaluation of student's performance slow learners were supported by remedial lectures to improve the results and advanced learners were offered NPTEL/SWAYAM courses.

As per University curriculum; final year students were promoted for a six-month internship program. Students have to maintain an internship diary along with an internship certificate for final evaluation.

The Research and Development committee promoted and published industrial/innovative problem statements. Students, in association with faculty members selected problem statements according to their areas of interest. During A.Y 2021-22; 01 international patent is filed by Dr G S Mirajkar, 02 Indian patents are successfully filed by the students along with their faculty members. During last five years total 06 patents are filed.

Counseling of students and faculty members was done by Guardian Faculty Members (GFM) and seniors/industrial experts respectively. All the documentations were verified by internal as well as

external academic advisors and the Academic Audit Report (AAR) is submitted to DBATU Lonere. The experts for the audit of A.Y. 2021-22 were Dr. Uday A. Dabade, (Professor, Walchand College of Engineering, Sangli) and Dr. Kumthekar Madhav Bhalchandra (Retired Professor, Karad Government College, Karad). Considering their report and achievements of the Institute; DBATU has given without condition EOA to the Institute.

During A.Y.2021-22; eleven students received scholarship from Cummins India Ltd., three students received K.C. Mahindra scholarship while one student received LIC scholarship. The number of students getting these scholarships is increasing per every academic year. Mr Abhay Kale and Ms Nikita Bhilare have taken tremendous efforts on these students to get succeed in their scholarship exams.

Institute is having NSS unit of 100 students to transform the technology to the society. The University recognizes the contributions made by these 100 students by giving academic credits.

File Description	Document
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1.2 Academic Flexibility

1.2.1

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

Response: 116

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

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

Response: 61.18

1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
396	503	1000	639	1053

File Description	Document
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Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Response:

Professional Ethics

Professional ethics are inculcated amongst the students by conduction of TPO, Aptitude slots of two hours per week respectively. Respective faculty members have designed the teaching plan of 40 hours especially for the same. Along with that, various alumni guest lectures, industry expert lectures, industrial visits help students to know the gap between industry and academic curriculum. We initiated internships for students in various industries. The students are promoted to complete their internships in summer, winter vacations and during the eighth semester.

Gender

The Institute has a culture of involving both boys and girls in every activity. The various statutory and non-statutory committees of the Institute have inclusion of both boys and girls.

The Institute had arranged a separate session on 'Womens Day Celebration & Self Defense' which was delivered by Miss Nikita Sonkatala (Chief instructor, Champions karate club) and Ms Nikita Kamble (Marathi film actress) on dated 08.03.2022

Nirbhaya Pathak (Squad) is formed with an aim to create a safer environment for women in the society. This squad consists of women officers to prevent eve teasing, sexual harassment and other crimes against women. Under this Nirbhaya Pathak an session on 'Support for women security and empowerment' was conducted on 10.06.2022 by resource person Ms Kajol Rathawde (Member, Nirbhaya Pathak) and Mr Vishwajeet Ghodake (Police Inspector).

Environment and Sustainability

There have been continuous efforts in incorporating environmental concerns into the curriculum as well as in the core values of the Institution. A course on Environmental Studies and NSS (National Service Scheme) is offered to UG students to develop a sense of awareness about the environment.

Each lab in charge along with students adopts plants which are kept and maintained outside their respective laboratory.

During A.Y. 2021-22; 42 trees were planted in the Institute's campus. Around 565 plants are planted and maintained in the Institute's campus since last 5 years.

NSS unit of 100 students ensure environmental awareness in nearby areas through the organisation of camps.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 25.6

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 321

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 39.59

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
145	165	124	106	137

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
330	330	330	360	360

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.1.2

Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)

Response: 21.23

2.1.2.1 Number of actual students admitted from the reserved categories year - wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
35	44	22	19	32

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
138	138	138	151	151

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio**2.2.1**

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response: 17.18

2.3 Teaching- Learning Process**2.3.1**

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

Response:

Experiential learning

Students are encouraged to learn by participating in various competitions like AVISHKAR, ANVESHAN, HACKATHON, DIPEX, independent collection of literature through internet and industrial experts regarding the current trends in technological innovations, experiential learning by giving live industrial problems through mini/major projects to enhance their problem-solving skills.

AGCE conducted University level AVISHKAR 2022 competition in association with DBATU Lonere on 24.12.2022. In this competition; one gold medal and one silver medal were achieved by our PG category students Mr Akhaykumar Kadam and Ms Shivani Kakade respectively. During last five years total 02 gold medals and 01 bronze medal is achieved by our students at university level AVISHAKR competition. The Institute has also conducted zonal level AVISHKAR 2019 competition in association with DBATU Lonere on 09.11.2019. Total 04 gold medals and 02 silver medals are received at zonal

level AVISHKAR competition.

At AVISHAKAR 2019 zonal level competition of Shivaji University held at Patan (Dist- Satara, Maharashtra) one gold medal and one silver medal was achieved.

Also for National Level competitions; one student received gold medal in ANVESHAN while for HACKATHON competition; one student group presented their idea at Chhattisgarh state. Two students Mr Shrikant Shejval and Mr Vishwanath Metkari presented their innovative projects in DIPEX.

Faculty members used to conduct the practicals with the help of different platforms such as EduLib, MHRD virtual lab, and animated videos.

Participative learning

Faculty members ensure that class sessions will be interactive in nature, questions were asked during the lecture through a chat box and students were instructed to respond to the questions.

After completion of each Unit, faculty members uploaded 10 questions on the basis of Bloom's Taxonomy.

Assignments were given on each unit and COs were mapped with POs.

Students are made to analyse and solve the problems through brainstorming sessions, case study discussions.

Students are encouraged to develop their various skills like communication, interaction through games and role-plays.

Institute has a department-wise interactive panel with advanced features such as Screen Recording, Cloud-based teaching, Support and Intelligent features for multiple disciplines, the ability to access the internet, to control access to the same, multi-language, multiple-finger gesture recognition, and control, text, shape and voice recognition, which is effectively used by faculty members to enhance students' knowledge.

Projector is available in each department to clear the concepts of the students by using different tools such as PPT, Video clips, animations, etc

Problem solving methodologies

Various industrial problem statements were collected and distributed amongst the students to work on it and find a better solution.

Problem-solving gallery is displayed at the entrance lobby on a monthly basis. All engineering problems related to the environment, society are highlighted and promoted amongst the students to solve the problems with the help of faculty members.

Advanced learners are encouraged to enroll for add-on courses through NPTEL/SWAYAM/MOOCs platform for learning the advancements in the course content.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
73	76	72	72	91

File Description

Document

Upload supporting document

[View Document](#)

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 5.99

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
6	5	7	2	3

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

As per the evaluation pattern confirmed by DBATU; the evaluation of each course is divided into two parts as internal assessment (CA) and University theory examination. Internal assessment CA is carried out for 40 marks while the University theory examination is conducted for 60 marks. Also, the laboratories having external Practical Oral Examinations (POE) are assessed for 40 marks. The examiners having industrial experience are invited as an external examiner for POE.

Institute has following robust mechanism for internal assessment:

Continuous Assessment (CA) and Mid Semester Examination–

i) Theory papers –

Objective as well as descriptive questions are asked in question papers of internal examinations. CA1 and CA2 examination is of 10 marks each while mid semester examination is of 20 marks. Question papers are designed as per Blooms Taxonomy. For CA-1 and CA-2 examination, allotted marks are 10 (2-marks for objectives, 4- marks for descriptive and 4-marks for assignments). Mid semester examination is conducted for 20 marks (8-marks for objectives and 12- marks for descriptive).

Those students securing less marks, who need to upgrade their performance and students absent due to unavoidable circumstances, were given a chance by conducting remedial examination.

ii) Practicals –

Carried out on online as well as offline mode. CA1 and CA2 practical examination was conducted for 30 marks each. For online mode, practicals were conducted using virtual labs. As per University curricula, list of experiments was designed. Total numbers of experiments were divided into two cycles. The first cycle of CA-1 practical examination was conducted after four weeks for 30 marks, distributed in four heads:

1) **Laboratory assessment** 10 marks (timely submission 2 marks, neatness 4 marks and understanding 4 marks),

2) **Attendance** 5 marks,

3) **Internal practical examination** 10 marks

4) **Mock oral examination** 5 marks.

Similarly, the second cycle CA-2 practical examination was conducted after twelve weeks.

Transparent Mechanism

Transparency in mechanism is ensured in following manner:

1. After evaluation of descriptive answer sheets; model answers prepared by faculty members are discussed with the students in the central library and the corrections are confirmed. Individual CO's attainments of the students were noted and necessary suggestions were given for maximum attainment with reference to internal evaluation.
2. After successful submission of objective examination marks were displayed to students on MOODLE
3. Laboratory assessment was carried out in front of student which ensures transparency in the evaluation.
4. Assignments were evaluated and shown to students during the lecture session.

It has been observed from the official record that no grievance from the University is recorded regarding the conduction of internal/external examinations.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Response:

Dissemination of POs and COs:

POs, COs and PSOs are approved by the Department Advisory Board

POs, COs and PSOs are available in the Institute website (www.agce.edu.in).

POs, COs and PSOs are kept in prominent locations of the campus for staff, students and public view.

POs, COs and PSOs are displayed in Department office, Laboratories and Department library.

POs, COs and PSOs are communicated to Alumni during the Alumni Meeting.

During the classroom discussions and faculty meeting POs, COs and PSOs are reviewed among the students and staff members.

POs, COs and PSOs are informed to the parents during Parents Teachers Meeting.

Course Outcomes (COs) are framed at Department advisory board meeting. The course outcomes and their mapping with program outcomes and program specific outcomes are elaborately discussed and derived by the course in charge.

Even though the COs are given by the DBATU along with the syllabus, if necessary, the COs are modified and reframed by the respective course in charge.

COs are communicated to the students during the introduction class itself. During the discussion of the course, the outcomes of the course are also focused. During the commencement of each unit and after the completion of the unit, the course outcomes are reviewed.

Attainment of POs and COs:

Each course is having minimum 04 COs. All question papers of internal examinations are set as per the blooms taxonomy and COs. Continuous Assessment 1 (CA1) exam is set on CO1 and CO2, Mid Semester Exam (MSE) exam is set on CO2 and CO3 while Continuous Assessment 2 (CA2) exam is set on CO3 and CO4. Care to include all COs in internal examinations is taken by the course incharge.

Final attainment is divided into two parts as direct attainment (80% weightage) and indirect attainment (20% weightage).

Direct attainment:

Result analysis is prepared by considering all COs. Percentage attainment of each CO is calculated for all internal exams (CA1, MSE, CA2). Similarly. This percentage attainment is converted into the predetermined attainment levels (Level 3: Above 67%, Level 2: 55% -66 %, Level 1: 40% - 54%). Similarly for University examinations levels are given as per the grades obtained by the student.

Indirect attainment:

Indirect attainment is done based on the course end survey given by the students. The feedback questions are categorised as per the COs and respective CO attainment level is decided.

Finally, CO-PO and CO-PSO attainment is calculated by weighted average method.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2**Pass percentage of Students during last five years****Response:** 94.44**2.6.2.1 Number of final year students who passed the university examination year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
320	420	238	221	296

2.6.2.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
336	425	243	275	304

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey**2.7.1****Online student satisfaction survey regarding teaching learning process****Response:** 3.46

File Description	Document
Upload database of all students on roll	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 38.07

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
11.763	9.085	7.709	7.58646	1.93

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge supported by R&D cell.

Final year students are provided with alumni mentor to guide for their projects. Project reviews are taken though the industrial persons so that students get the opportunities to directly interact with outstanding entrepreneurs/engineers excelling in their field.

Institution Innovation Council (IIC) organized various activities which gives real time exposure to the students and provide them a platform to showcase and implement their practical learning. The Institute received certification of appreciation from office of controller general of patents on 23th January 2023 for participation of maximum number of students in the 'National Intellectual Property Awareness Mission (NIPAM)' launched by the government of India on the occasion of 75th anniversary of independence under the banner 'Azadi ka Amrit Mahotsav'. Various talks of entrepreneurs are also

arranged by IIC to motivate the students for starting the start-ups.

The Research and Development committee promoted and published industrial/innovative problem statements. Students, in association with faculty members selected problem statements according to their areas of interest. During A.Y 2021-22; 01 international patent is filed by Dr G S Mirajkar, 02 Indian patents are successfully filed by the students along with their faculty members. During last five years total 06 patents are filed.

Students are encouraged to learn by participating in various competitions like AVISHKAR, ANVESHAN, HACKATHON, DIPEX etc. Students are encouraged to take live problems from the industry to enhance their problem-solving skills.

AGCE conducted University level AVISHKAR 2022 competition in association with DBATU Lonere on 24.12.2022. In this competition; one gold medal and one silver medal were achieved by our PG category students Mr Akhaykumar Kadam and Ms Shivani Kakade respectively. During last five years total 02 gold medals and 01 bronze medal is achieved by our students at university level AVISHAKR competition. The Institute has also conducted zonal level AVISHKAR 2019 competition in association with DBATU Lonere on 09.11.2019. Total 04 gold medals and 02 silver medals are received at zonal level AVISHKAR competition.

Also for National Level competitions; one student received gold medal in ANVESHAN while for HACKATHON competition; one student group presented their idea at Chhattisgarh state. Two students Mr Vishwanath Metkari and Mr Shrikant Shejwal presented their innovative projects in DIPEX.

The Institute has initiated to set-up e-yantra Lab (supported by IIT Bombay). This lab is equipped with a Fire Bird ATMEGA2560 robot received from IIT Bombay.

Institute is sensitive to community problems and also work under Unnat Bharat Abhiyan for past several years and already done significant work in the nearby villages related to drinking water, sewage treatment etc. This type of work will be continued in the years to come. In addition, NSS team of institute has done activities for community during floods and COVID pandemic.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 154

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during

last five years

2021-22	2020-21	2019-20	2018-19	2017-18
54	32	33	25	10

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards**3.3.1**

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.23

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
12	11	7	4	5

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.02

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
01	00	01	02	00

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.4 Extension Activities

3.4.1

Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The faculty members and students of the Institute are connected with the society by addressing issues like, agriculture, water supply, solid waste management, social issues, power crisis and environment. The major initiatives taken are as follows:

- **National Service Scheme (NSS)**

The Institute has one unit of NSS having 100 students and aims at 'Education and Service' to the community. Various activities are carried out under the banner of NSS like

A. Mazi Wasundhara Abhiyan:

Under this abhiyan; the Institute has done geo-tagging of all old trees of Pachagani nagar parishad which was coordinated by Dr Mirajkar G S on 09th March 2022.

B. Mission Yuva Swasthya:

Institute arranged vaccination camp on 12th November 2021 in view of pandemic situation. Total 74 students along with faculty members vaccinated by 'co-vaccine' during the camp.

Also second camp of vaccination was conducted on 07th January 2022. Total 139 students along with faculty members vaccinated by 'co-vaccine' during this camp.

C. Women's Day:

Was celebrated on 3rd August 2022 in which 64 women participated. This day is celebrated to express love and gratitude towards the contribution of women in every sphere of life. On this day self-defence session was conducted.

Self-defence session:

Miss Nikita Sonkatala, Chief instructor of Champions Karate Club, first Dan black belt, international player, self defence expert graced this session. She taught the female members the importance of self-defence by giving practical demonstrations.

D. Health check-up and Blood donation camp:

Health check-up and Blood donation camp was organised on 03rd May 2022, during which the Haemoglobin count, blood group, weight and overall health check-up was done of 75 volunteers, who also donated blood.

E. Tree plantation:

The institute has 565 trees in its campus. Out of which 42 trees were planted during the Academic Year 2021-22.

Also the Institute arranges various commemorative days such as Shiv Jayanti, Savitribai Phule Jayanti etc, No vehicle day, Celebration of republican day, Holi celebration, Shiv swarajya din celebration, Essay writing competition. Speech competition, Photo exhibition of fort etc

- **Unnat Bharat Abhiyan (UBA)**

Our Institute has adopted five villages viz. Anewadi, Panmalewadi, Bamnoli, Kudal and Pachwad. On 21st October 2020 faculty team visited Pachwad village and educated practically every household regarding the prevalent pandemic, the importance of social distancing, the use of mask and most importantly every adult need to be vaccinated was stressed upon.

- **Renewable energy and Recycling of water**

Additional power generation was achieved during the Academic Year 2020-21 in the Institute by installing a solar power plant of 4 kW capacity on the rooftop to power back up for 24 computers of the Mechanical Engineering lab.

Girls hostel of the Institute is equipped with solar water heaters having 3000 Lit capacity. Total 58 girls residing in 12 rooms utilise this facility.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Following are the details of the awards and recognitions received to the Institution for extension activities from government / government recognized bodies:

1. Maharashtra Haritsena membership award:

The Institute always take initiatives for inculcating the awareness about environmental conservation into the students through various activities like tree plantation, Cleanliness activity etc. By taking into consideration these efforts taken by the Institute; forest department of Maharashtra state has awarded the Institute with 'Maharashtra Haritsena membership award'.

2. COVID 19 Yodha:

The Institute had arranged the blood donation camp in its campus on 20th February 2021 and also on 20th February 2020. As a token of appreciation; the Institute is awarded with 'COVID 19 Yodha' award by Varad Charitable and Medical Trust, Satara.

3. Most promising and trusted engineering college of the year 2021 award:

By taking into consideration; innovative teaching approach, outstanding administration and social contribution in the region of western Maharashtra; the Institute is awarded with 'Most promising and trusted engineering college of the year 2021' award by Begin up research intelligence Private Ltd, Bengaluru during national educational excellence awards and conference 2021.

4. Appreciation by Dalit Mahila Vikas Mandal :

Lek ladaki abhiyan is a social activity initiated by 'Dalit Mahila Vikas Mandal' in 2004. Under this activity; the founder advocate Varsha Deshpande has done the Important work to implement 'the Prevention of Pre-conception and Pre-natal Sex Determination Act' in Maharashtra. Advocate Varsha Deshpande has been felicitated by Hon. Prime Minister and also by Hon. Governor of Maharashtra state for her relentless work for society.

By taking into consideration the initiatives and active participation of the students along with faculty coordinator Ms. Shital Waghmare; the Institute received appreciation by 'Dalit Mahila Vikas Mandal' organisation Satara under 'lek ladaki abhiyan'.

File Description	Document
Upload Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 28

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
13	05	06	04	00

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 34

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

classrooms, laboratories and other infrastructure:

As per curriculum of DBATU, tools and equipment are upgraded for effective teaching-learning process. Each department has advanced equipment beyond syllabus viz. 3 D printing, e-vehicle, Visual studio, Solar power plant, Geographical Information System (GIS) software, FPGA & CPLD (VLSI) kits.

The Institute has an instructional area of 7996.113 sq meter consisting of Class rooms, Tutorial Rooms, Laboratories, Workshop, Additional Laboratory/ Workshop, Drawing Hall, Computer Centre, Seminar Hall, Library, Language Laboratory.

The Institute has an administrative area of 1292.9 sq meter consisting of Principal office, board room, cabin for HOD & departmental office, faculty rooms, central store, security, examination control office and placement office.

The Institute has amenities area of 1146.97 sq meter which include toilets, common rooms for girls and boys, cafeteria, stationary store, boys hostel, girls hostel.

The Institute has circulation area of 2608.996 sq meter which include common walkways, staircases, entrance lobby.

The Institute has an interactive panel and a well-equipped workshop. Institute has an internet access with 300 MBPS bandwidth provided by Neha infotech.

The library is well-equipped having 14081 text books, 1687 reference books, 4476 e-books. A reading room is available in the main library and the ladies hostel. Separate Training & Placement Office is available.

ICT facilities:

Institute has a department-wise interactive panel with advanced features such as Screen Recording, Cloud-based teaching, Support and Intelligent features for multiple disciplines, the ability to access the internet, to control access to the same, multi-language, multiple-finger gesture recognition, and control, text, shape and voice recognition, which is effectively used by faculty members to enhance students' knowledge.

Projector is available in each department to clear the concepts of the students by using different tools such as PPT, Video clips, animations, etc

Cultural activities:

Every year, in the month of February cultural events are celebrated in which students actively participate in the various competitions. Organizing such events ultimately improves their team work, event handling ability and boosts their confidence.

- Traditional Day on 19.02.2022 (Participants: 57)

Faculty coordinator: Ms Sheetal Waghmare

- Saree and Tie & Blazer Day on 20.02.2022 (Participants: 124)

Faculty coordinators: Ms Nalwade S B

- Hollywood/Bollywood Day on 21.02.2022 (Participants:64)

Faculty coordinators: Mr Ankur Kamble

- Chocolate day on 23.02.2022 (Participants:107)

Faculty coordinators: Mr Nikhil Ghadage

Students are felicitated and awarded at the Institute for their remarkable performances and achievements in cultural activities and events. The national days and major festivals are marked and celebrated enthusiastically.

- Institute has its own PA system which is used in cultural programs.

Gymnasium:

Sports instructor takes care of all the activities related to Gymkhana department. The Institute has open Jim which is sponsored by alumni. The gymnasium is equipped with an adjustable chest press bench (flat & inclined), straight bar, curve bar, weight plates and dumbbells.

Yoga Centre:

The Institute has a 'Yoga Club' which organizes training and practicing sessions for students and staff. Faculty members also serve as instructors for Yoga Club. Institute celebrates 21st June, the International Yoga Day on a large scale.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2

Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 3.32

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
31.05	0	0	0	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1

Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

The main objective of the central library is to provide seamless access to information to its users in a networked environment and to become a premier learning resource centre in Engineering, Science & Technology and related areas.

Library Management System Software –

The library has been automated using library management software ‘BIYANI TECHNOLOGY & KOHA’. Login and password is given to all the students through which the student can access the library material for 24 hours a day. The record of books issued to students and staff was maintained through software. OPAC system facilitates students to search for books available and also to make requisitions.

The library has subscribed to e-Journals and scientific databases such as DELNET. These journals can be accessed at the Digital Library Section and through the Institute network.

On an average 6% students use library facility every day. Recently; the Institute has purchased reference books costing 75000/-Rs

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Response:

With the increasing demand for internet access in educational campuses and due to evolving standards of education and flexibility offered by the Internet; Institute is keenly stepping forward to set up secure and stable wired or Wi-Fi network campuses for their students. Being an educational Institute; we require cost-efficient comprehensive solutions that offer all the advanced facilities and features in a single platform with single point of contact for technical support.

Currently we are using lease line of 300 MBPS provided by 'Neha Infotech' which is wired as well as WiFi based. The Institute has a 24X7 WiFi facility in the college campus for the students and faculty members to avail internet connection at any place in the Institute and hostel. There is firewall protection given to the WiFi facility which enables to access only academic related documents. The connectivity through a fully networked campus with state-of-the-art IT infrastructure, computing & communication resources, offers students the facilities of e-mail, net surfing, loading of web-based applications and also helping them to prepare projects and seminars. Digital notice board is also available for student's use. These are the different digital technological facilities available in the Institute.

There are 09-Overhead Projectors and 05 - Smart classrooms

Open source tutorials of IIT Mumbai are available for students and faculty members. The English Language Laboratory (Communication Skills Lab) is also upgraded with all the necessary tools. The Institute has well-equipped and functional computer labs for the students. The college as well as the library has a well-equipped Wi-Fi facility which is beneficial to the students as well as the staff members of the Institute. There is open access of Wi-Fi connectivity to all students and the staff members of the college. All the departments of the college are provided with computers and other related accessories. All teaching staff members use the ICT in the classrooms and laboratories, whenever needed. The different educational sites are shown to the students with the help of digital devices. Most of the official work is being done with the help of ICT. The institute regularly maintains the IT facilities.

Following are the facilities for updating:

1. Institute itself formats the computer without any fees and by the help of a computer operator.
2. Anti-virus is regularly installed on computers.
3. Wi-Fi connectivity is available.
4. CCTV is installed in every classroom.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2

Student – Computer ratio (Data for the latest completed academic year)

Response: 3.93

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 319

File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1**

Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)

Response: 41.36

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
83.13	55.52	71.17	108.5	68.3

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 91.47

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1093	1259	1072	1049	896

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.2

Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 21.98

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
345	415	140	225	165

File Description**Document**

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)**5.1.4**

The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

Response: A. All of the above**File Description****Document**

Upload supporting document

[View Document](#)**5.2 Student Progression****5.2.1**

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 40.75**5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
140	239	99	114	53

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
336	425	243	275	304

File Description**Document**

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)**5.2.2**

Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 8.18

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
2	03	4	9	00

5.2.2.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
36	28	47	53	56

File Description**Document**

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

5.3 Student Participation and Activities

5.3.1

Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 0

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0	0

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 10.4

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
22	10	7	9	4

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

5.4 Alumni Engagement

5.4.1

There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

- We are very proud to share that our alumni have occupied responsible positions at various MNCs, Public sector and Government organizations at the global, national level and state level.
- To strengthen the alumni network, the Institute registered an Alumni Association during the year 2018 with registration number MAH/16235/SA dated 12/01/2018 with Charity Commissioner Office of Satara division.
- Audit of alumni account is carried out by CA regularly and approved balance sheet is submitted to Charity Commissioner office in due time.

- The Objectives of Alumni Association are:

1. To maintain the data and update the current information of all Alumni.
2. To encourage a bond of friendship amongst the alumni.
3. To promote a sustained sense of belonging to the Alma Mater by being in regular contact with them.
4. To assist and support the efforts of AGCE in obtaining funds for development.
5. To provide a forum for the Alumni for exchange of ideas on academic, cultural and social issues by organizing reunion activities.

- The Institute organizes an alumni meet every year wherein distinguished alumni visit the Institute, share their experiences, give the suggestions for development of the Institute, providing guidance through guest lectures, alumni mentor for final year project guidance, seminars, workshops and support for industry visits, internships, placement drives throughout the academic year.
- Alumni suggest gaps in syllabus considering current demands of industry.
- The alumni have supported the Institute financially in following ways:
 - 1.They have donated interactive panels for enhancing the learning experience of the students. These interactive panels are having advanced features for better learning experience of the students.
 - 2.Alumni have sponsored for open Jim of the Institute for physical and mental fitness of the students.
 - 3.The alumni support the students with financial help during their project work, prizes for competitions, donation of books to the library and always interact with them.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

VISION

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

MISSION

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.

Following points were considered while preparing the Institute's Vision and Mission Statement.

- Socio-environmental condition and low level of technical skill in the rural area.
- Deliberation with board of trustees in presence of Academic and Industrial experts.
- Inputs from other stakeholders.

Nature of Governance

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, and fostering an environment in which the institutional mission is achieved as per 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.

DECENTRALIZED MANAGEMENT

Following committees monitors and reviews the effective leadership which include all stakeholders:

Academic Monitoring, IQAC, Examination, University/AICTE/DTE, Admission, Training & Placement, Alumni, R & D and IPR, Co-curricular, ICT, Peer Team/Anti ragging/Discipline, Reservation, Women's internal complaints/counselling & Medical Care, Student Development & Welfare/EDC/Higher Edu/Competitive exams, Extracurricular Activities/Cultural/Sports, Grievance & Redressal, Library.

Participative Management: -

Institute promotes a culture of participative management by involving all the concerned stakeholders in

- Governing Council
- College Development Committee
- Department Advisory Board
- Principal's Administration
- IQAC
- HODs
- Coordinator Level
- Faculty Level
- Student Council

Effective leadership is monitored and reviewed with the help of:

Principal's Administration: This is the key node that provides effective administration by handling academic and overall administration at the Institute level.

Coordinator Level: They can take necessary action for overall controlling and monitoring of their corresponding committee / cell.

HOD: HODs have enough freedom to plan for overall progress of the department. They can take necessary action for overall controlling and monitoring of the department.

Faculty level: Faculty members suggest and implement a variety of technical and non-technical programs, workshops, seminars for the benefit of students.

As a receipt of excellent governance and leadership; the Institute has received following awards:

1. CII Platinum and Gold ranking by AICTE.
2. Leadership excellence award given by DBATU Lonere
3. Best promising & trusted engineering college of the year Maharashtra award by Begin up research intelligence Pvt Ltd Bengaluru.
4. Appreciation award for the contribution as Host Institute for the conduction of University Level

round of 'AVISHKAR 2022'.

File Description	Document
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Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

AGCE has its own process handbook which defines the code of conduct of all the institutional activities.

AGCE QUALITY POLICY:

AGCE is committed to provide value-based quality education maintaining pace with changing technology to produce competent and skilled professionals ready to accept global challenges.

AGCE accepts the well-known notion of quality as conformance to prescribed standards. These standards shall be intimately related to the Graduate Attributes definition accepted by the AGCE. It recognizes the need to prescribe standards for every aspect of its operations, taking care to ensure that equity, access and excellence are taken into due consideration in this process.

Every activity of the AGCE needs to undergo continuous improvement. This requires data collection, analysis and bench marking of each activity. The AGCE shall carefully evolve such a system involving every stake-holder, in a participative manner. Towards this AGCE shall follow SAFE (Standards, Assess, Feedback & Excel):

- Setting standards by establishing a detailed on-line data collection system. The endeavour shall provide comprehensive support to all stakeholders and ensure that individual wise support is extended and augment the existing and future resources in this direction.

- Assess by conducting annual audits of its activities and evolve benchmarks for each. The annual audits shall provide the essentials that need to be taken care of and also considered important which in turn can be benchmarked with institutes of repute and rise to the international standards.
- Improvisation adopted by AGCE is communicated to all stake holders on basis of their feedback.
- Feedback is to be given to all stake holders about the results of quality efforts in each area of activity, every year. The AGCE shall empower the IQAC to be a pillar of quality consciousness through the various quality activities. All the stake holders will be involved in the quality policy dissemination, absorption and control mechanisms that will be evolved at regular intervals.
- Excel by providing awareness and training in quality concepts & system to all stake holders of the AGCE. There shall be continuous training and development among the stake holders through the measures which can provide the much-needed impetus to the quality concepts and systems in vogue and also elicit responses on the benchmarking improvements from time to time.

ADMINISTRATIVE SET UP:

The key components of the organizational structure of the Institute are Management of Samarth Educational Trust, Principal, HODs, Teaching, Non-teaching staff. Various committees with well-defined functions give academic and administrative leadership to the Institution.

SERVICE RULES AND REGULATIONS WITH PROCEDURES

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

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2.2**Implementation of e-governance in areas of operation**

- 1. Administration**
- 2. Finance and Accounts**
- 3. Student Admission and Support**
- 4. Examination**

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies**6.3.1**

The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff

Response:

Effective welfare measures

In our Institution, staff welfare is given foremost importance. In connection with this, existing welfare measures for teaching and non-teaching staff are itemized below:

1. Appreciation with the 'Best Faculty Award' for their efforts on the occasion of foundation day of the trust.
2. Appreciation of departmental faculty members by HOD for achieving outstanding results in their respective course.
3. Institute organizes free health & eye check-up for its members.
4. On duty leave and conveyance allowance are sanctioned to the teaching staff for attending FDP/ Workshop/ Conferences/those who are pursuing M.Tech & Ph.D
5. Faculty members are supported with medical allowance.
6. Maternity benefits are given as per norms.
7. Professional and life skills training through outdoor faculty orientation program.
8. Wi-Fi facility.
9. Extending EPF schemes are implemented to all eligible members of teaching as well as non-teaching staff.
10. Uniforms are provided for supporting staff free of cost.
11. Faculty Development Programs (FDP) are conducted on a regular basis.
12. All employees are insured under government insurance scheme.
13. Employees are granted 15 days paid leave for those affected with COVID-19, on production of his/her COVID positive report.
14. Transport facility is available for staff in concessional rate.

Performance Appraisal System

An effective performance management system plays a crucial role in managing the organisation in an efficient manner. Institute follows a well-defined and framed model of performance appraisal system namely API (Academic Performance Indicator) as per UGC guidelines.

In this scheme, the performances are classified into three categories

1. Teaching, Learning and Evaluation related activities (Weightage: 125/350)
2. Co-Curricular, Extension and Professional Development related activities (Weightage: 50/350)
3. Research Publications and Academic Contributions (Weightage: 175/350)

The salient features of the performance appraisal system are as follows:

- a) The performance of each faculty member is assessed according to the Annual Self-Assessment for the Performance Based Appraisal System (PBAS).
- b) Promotions are based on the PBAS proforma for UGC Career Advancement Scheme (CAS) that is based on the API score.
- c) The Institute undertakes a wide range of activities besides academics, for which faculty members are assigned additional duties and responsibilities. The Institute accords appropriate weightage for these contributions in their overall assessment.
- d) The faculty members are informed well in advance of their due promotion.
- e) The PBAS proforma filled by the Faculty Member is checked and verified by the Heads of the Department, IQAC, followed by the Principal.
- f) Faculty members whose promotions are recommended based on their API score are required to appear before the screening-cum-selection committee.

A few strategies are observed in appraising teaching staff's performance; these include technical contribution of individuals such as subject knowledge, awareness, productivity, quality, innovation, willingness to learn, diligence etc. Besides, they also assess the behavioural aspects like group behaviour, acceptability, punctuality etc.

Faculty members are encouraged to enhance or upgrade their knowledge through their participation in conferences, workshops, publications in peer reviewed journals, book publication, sponsored projects, consultancy, research supervision, awards, etc.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 7.81

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
6	7	5	12	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

Response: 14.07

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
5	31	18	1	0

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1	3	2	1	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

Strategies for mobilization and optimal utilization of resources and funds:

AGCE is a self-financing private Institute. It 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 other miscellaneous incomes. In case of activities like expansion and renovation of the building, the management always supports by providing required finance. Financial planning is done at the beginning of the academic year well in advance with efficient budgeting.

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.
- Institute provides financial assistance for research projects.

Financial audits:

Internal Audit:

Institute conducts an internal audit on a quarterly basis by professionals working under Chartered Accountant. They verify and confirm all the finance related documents. Report of the audit is submitted to the Principal and the Registrar. In case of any query, it is referred to the Chief accountant. During internal audit no discrepancy was observed for freship and EBC. Provident Fund account and Professional Tax is paid regularly.

External Audit:

Institute undergoes financial audit on a yearly basis in the month of May and June, which is done by M/S Godbole & Company, external Chartered Accountant as per the rules and regulations laid down by competent authorities. The cash books and daily account details maintained by using Tally are verified by the CA. Audited balance sheet duly signed is verified by the Fee Regulating Authority for arriving at the student's tuition fee. Audited balance sheet is submitted to the Income Tax Office and Charity Commissioner Office within time. All the reports to the authority was accepted and no compliance was pending.

Institute has a registered Alumni Association having a separate bank account in Bank of Baroda. The internal and external audit of this account is carried out regularly.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

Institute focuses on imparting quality education, through its innovative, comprehensive and flexible education policy. IQAC carries out activities that encompass all aspects of the Institute's functioning.

IQAC performs the following tasks on a regular basis:

1. Improving interaction between industry & institute by conducting sessions of industrial personnel (Industry Talk)
2. Imparting professional skills amongst students through Campus to Corporate sessions. These sessions are conducted by our faculty member Mr Abhay Kale.
3. Promoting Outcome Based Education. IQAC has approved reformation in the exam evaluation system which includes attainment of CO-PO and CO-PSO.
4. Improving the quality of academic & administrative activities by considering the suggestions received from various stakeholders.
5. Effective implementation of AICTE internship policies so as to improve the employability of students.
6. Promoting research culture amongst students and faculty members by arranging workshops related to patent filing.
7. Improving the core competency of faculty members by conducting the activity of Quality Circle.
8. Preparation for NBA by signing MoU under AICTE Margadarshan Scheme.
9. Submission of Annual Quality Assurance Report (AQAR) to the apex body.
10. Submission of Academic Advisory Audit (AAA) report to the University.

IQAC has implemented a number of improvements and quality measures since the initial cycle of accreditation and throughout the last five years:

1. Enhancement of the use of innovative pedagogical techniques:

Faculty members are encouraged to use more innovative teaching strategies through the IQAC. Faculty members must include and implement innovative pedagogy strategies in their teaching plans. During the teaching-learning process as well as department association activities, the faculty members have implemented novel pedagogical strategies such as online quizzes, use of virtual labs, hands-on practices, learning through entertaining games and so on. During frequent academic monitoring, the IQAC verifies efficient use of innovative pedagogical techniques.

2. Increased use of ICT tools:

The IQAC periodically takes the review of ICT tools usage by the faculty members and also ensures the adequacy of ICT infrastructure for the teaching-learning process. During the last five years ICT enabled facilities have been strengthened with a number of classrooms and seminar halls equipped with ICT tools such as interactive panels, projectors etc.

3. Implementation of outcome-based education (OBE)

IQAC has contributed significantly to the implementation of OBE. IQAC monitors and undertakes periodic review of program outcomes, course outcomes and their attainments. The faculty members revise intended course outcomes as per the revisions in the curriculum and also with respect to the broad context of technological changes in their respective subject domains.

4. Strengthening of the ERP system.

Tally software is used for office related data, MOODLE as teaching-learning platform, 'BIYANI TECHNOLOGY and KOHA' is used for library automation

5. Membership of Quality Circle Forum of India:

Institute has active membership of Quality Circle Forum of India (Membership No: 056503119687). Under this membership, IQAC has taken initiative to conduct various activities like Quality Circle. In this activity; each faculty member presents various recent/research topics to all the departmental faculty members on a weekly basis.

File Description	Document
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6.5.2

Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)/ membership of international networks**
- 3.Participation in NIRF**
- 4.any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Response: C. Any 2 of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

Promotion of gender equity:

Our Institute has a culture of accommodating both boys and girls equally in any type of activity. The Institute is also certified as 'Perfect workplace for women' from Artificial Intelligence Registration and Certification Ltd', UK.

1. Inclusion of boys and girls in various statutory and non-statutory committees:

Institute has a culture of student driven system. Equal opportunities are provided to boys as well as girls through various statutory and non-statutory committees with equal delegation of authorities and responsibilities for girl students. The Institution provides safety and security facilities for the staff and students, such as CCTV Surveillance throughout the campus. Wearing ID cards is compulsory.

2. Counseling:

The department has an active Guardian Faculty Mentor (GFM) system. A batch of 20 students is allocated to each faculty member for monitoring issues like personal, psychological, difficulties in academics. It is implemented regularly at departmental level to help the students. Separate sessions are conducted for girls by female motivational speakers.

The architect has designed equal number of common rooms as well as washrooms for boys and girls. The washrooms used by girl students are equipped with sanitary napkin vending and disposal machines for the safe and hygienic disposal of sanitary napkins.

3. Other relevant initiatives:

Separate study rooms, computing facilities, outdoor games, cafeterias are provided for both boys and girls. For girls and female workers, a blood group and haemoglobin check-up camp and guest lectures on health awareness are all planned periodically.

Celebration of national and international commemorative days, events and festivals:

Event calendar is prepared at the start of each semester and events are conducted accordingly.

Commemorative days:

Independence and Republic Days are celebrated on a grand scale. Birth anniversaries of great leaders viz. Veermata Jijamata, Chhatrapati Shivaji Maharaj, Savitribai Phule, Mahatma Gandhi etc are celebrated on campus. Trust's Foundation Day is also celebrated by appreciating the contributions of teaching and non-teaching staff followed by dinner.

Events:

Teacher's Day is celebrated on the occasion of the birth anniversary of Dr. Sarvepalli Radhakrishnan to honour and show respect towards our teachers. Engineers Day is also celebrated on the occasion of the birth anniversary of Sir M Visvesvaraya to express gratitude towards the great engineer. National Librarian's Day is celebrated on 12th August on the occasion of the birth anniversary of Padmashri Dr S R Ranganathan who is considered as father of library science in India. National Safety Day is observed on 4th March to raise awareness about all safety protocols.

Ganesh Chaturthi is celebrated centrally on a grand scale for five days. The Diwali festival is celebrated by distributing sweet meats to all the teaching and non-teaching staff. Workshop takes the initiative in celebrating Khande Navami on a grand scale in association with laboratories. Also, the Holi festival is celebrated in the Institute. The Youth-Cultural festival 'TARUNAI' is organised every year on a grand scale.

Many other events were conducted under NSS such as tree plantation, blood donation, women's day celebration, World menstrual hygiene day etc.

File Description	Document
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7.1.2**The Institution has facilities and initiatives for**

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

Response: A. 4 or All of the above

File Description	Document
Upload supporting document	View Document

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

- 1.Green audit / Environment audit**
- 2.Energy audit**
- 3.Clean and green campus initiatives**
- 4.Beyond the campus environmental promotion activities**

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic diversity and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

I) Institute provides inclusive environment through following initiatives:

Tolerance and harmony towards cultural and communal diversities:

Every year faculty members, staff, and students attend grand and patriotic functions organized to commemorate Independence Day and Republic Day. Also, Shiva Jayanti, Women's Day, Traditional Day, Saree Day, Chocolate Day is also celebrated with great fervour. On Independence and Republic Day, students participate in cultural programmes depicting acts that promote national integration and harmony. Various activities, such as birth anniversaries of social reformers, are organized to demonstrate religious harmony. Meetings were held by the Minority cell, the OBC cell, and the SC/ST committee to ensure student harmony.

Tolerance and harmony towards regional, linguistic diversities:

Students from diverse regions were admitted to our Institute. The Institute always maintains and supports holistic culture in the campus. The Institute has hostel facilities for girl students as well as female faculty members. Majority of faculty members are from Maharashtra and neighbouring states of Andhra Pradesh

and Karnataka. Dr Nayak B M, Mrs Parvathi I from Telangana, Mr Somesha Naik S.R, Mr Basavraj Nelogal, Mr Pravin Pawar, Dr Salman Warimani from Karnataka. A bond of friendship is created between all the faculty members through their participation in various festivals like Ganesh Chaturthi, Diwali, interaction during meetings, conferences etc

Tolerance and harmony towards socio-economic diversities:

Institute has its own Sawkar Scholarship Scheme which is effectively implemented for economically weaker students, students who have lost either of their parents. We take special efforts to guide students for various private scholarships provided by the industry. The number of students getting the private scholarships is increasing every year. During A.Y. 2021-22 Eleven students qualified for Cummins scholarship, three students received K.C. Mahindra scholarship and one student received LIC scholarship.

Facility of paying fees in installments is provided to the students as majority of them are from rural and economically weaker families. Right from the establishment of the Institute, the dress code is implemented to avoid social and economic disparity and also to maintain uniformity.

II) Sensitization for the constitutional obligations:

Activities for constitutional obligations: values, rights

Morning schedule begins with the playing of the national anthem and morning prayer centrally. The students were encouraged for registering themselves in the voters list. The NSS volunteers created awareness about cleanliness, COVID-19 protocols through posters. The audit course 'Basic Human Rights' included in curriculum and taught by an advocate about human values, rights, duties, responsibilities of citizens.

Activities regarding duties and responsibilities of citizens:

Institute has in place AGCE process handbook where all duties and responsibilities are clearly mentioned right from students to faculty members and these are followed by everyone.

Independence Day, Republic Day are celebrated every year with great fervour and patriotism which are attended by faculty members, staff and students. Preamble pledge is read on these days. Various eminent personalities visited the campus during the induction program and guided the students regarding values, ethics and patriotism which they must inculcate. In the Institute campus, smoking and consumption of tobacco is strictly banned.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.2 Best Practices

7.2.1

Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practice: 1

1. Title of the Practice:

“Employability enhancement by imparting professional skills through Training & Placement activities”

2. Objectives of the Practice:

1. To make students confident through professional activities.
2. To impart company specific trainings required for professional career and campus placements.

3. The Context:

In the learning context of students, the cognitive, psychomotor and affective domains are three important aspects. The cognitive abilities include technical knowledge and are acquired through regular classroom and practical sessions. However, it requires additional efforts to impart psychomotor and affective aspects through professional skills in engineering education. Current placement drives have stages like aptitude test, group discussion, technical interview and personal interview. The feedback obtained from industry experts, alumni, HR executives suggest that only academic performance is not enough to get quality placement. The students are also required to have skill sets of core domain required by industries so that the students will be productive from day one.

4. The Practice:

The Institute conducts regular professional activities as described below:

4.1 Value Added Program by Industrial Experts: Besides curriculum, the department facilitates various value-added courses, seminars/guest lectures/expert lectures by eminent personalities.

4.2 Soft Skill Training: Being located in the rural part, the Institute is facing the challenge of soft skill development of the students. Communication skills, aptitude test proficiency are important parts of soft skills. For this activity, weekly 02 hours are allotted in the time table. Separate lesson plan for 40 hours is prepared and accordingly delivered by the respective faculty members.

4.3 Language Proficiency Program: Student development committee organizes training activities for learning German Language. Also Institute has given opportunity to the students to study Japanese language by selecting this subject from the list of optional subject.

4.4 Effective execution of AICTE internship policies:

AICTE has formulated its internship policy for the students of technical educational programs vide its letter No. AICTE/Internship Policy/18. The policy comprises of the steps for establishing, maintaining and fostering internships. The students have been provided with a diary which is to be maintained by the respective student during the period of internship. The structure of this diary is designed as per the AICTE internship policy. In this diary the student mentioned the details of company's profile, its departmental layout, details of the duties performed by the student daily. After the internship, certificate of successful completion of training is given to the student. Institute monitors the status of internship performance by physically visiting the industry where he/she is placed. Institute also takes effort to ensure that no student is left out from the internship process. This practice ultimately enhanced the employability of the students.

5. Problems Encountered and Resources Required

As most of the students are from rural background, they lack in English communication, presentation skills and expressions. Their confidence level is comparatively lower. It takes a lot of time and need counselling sessions to make them participative. As most of the students are from farming background,

they spare their time in farming work. So, students don't find time to spare for add-on courses offered by the institute.

The input from the industry experts/ external agency/ alumni/ academicians is to be taken while preparing activity plan. Student's mentoring is necessary while selecting value added course, foreign language trainings.

Best Practice No 02:

1. Title of the Practice:

Learning through state and national level competitions

2. Objectives of the Practice:

- i. To develop problem solving skills amongst the students.
- ii. To provide the right platform for the students to showcase their talent.
- iii. To train the students for applying the concepts of domain knowledge to the live industrial/societal problems.

3. The Context:

To build the confidence and to give the exposure to current advancements in the technology; Institute promotes the students to participate in reputed project competitions as well as consultancy projects.

Students are encouraged to learn by participating in various competitions like AVISHKAR, ANVESHAN, HACKATHON, DIPEX, Technical rangoli competition, science exhibition, state level technical competitions, best reader, videography competition, quiz competition, mini/major projects to enhance their problem-solving skills etc

R&D promotes students for filing of patents for their innovative projects. Institute received consultancy work from Pachagani nagar parishad and Vaduj gram panchayat.

4. The Practice:

AGCE conducted University level AVISHKAR 2022 competition in association with DBATU Lonere on 24.12.2022. In this competition; one gold medal and one silver medal was achieved by our PG category students Mr Akhaykumar Kadam and Ms Shivani Kakade respectively. During last five years total 02 gold medals and 01 bronze medal is achieved by our students at University level AVISHKAR competition. The Institute has also conducted zonal level AVISHKAR 2019 competition in association with DBATU Lonere on 09.11.2019. Total 04 gold medals and 02 silver medals are received at zonal level AVISHKAR competition.

Also for National Level competitions; one student received gold medal in ANVESHAN while for HACKATHON competition; one student group presented their idea at Chhattisgarh state. Two students Mr Shrikant Shejval and Mr Vishwanath Metkari presented their innovative projects in DIPEX.

The R&D committee promoted and published industrial/innovative problem statements. During A.Y 2021-22; 01 international patent is filed by Dr G S Mirajkar, 02 Indian patents are successfully filed by the students along with their faculty members. During last five years total 06 patents are filed.

Institute has completed the consultancy work for geotagging of trees, water audit, energy audit in Pachgani nagar parishad. Also, water audit and energy audit of Vaduj gram panchayat is successfully done by the students along with faculty members.

5. Problems Encountered and Resources Required:

The Institute has large number of students which are from rural background. These students are good in their domain skills but need to mould them for soft skills. The Institute takes efforts to improve their soft skills through the sessions planned in their regular time table. Mr Abhay Kale and Ms Nikita Bhilare conduct these sessions and arrange various activities for developing the soft skills of these students.

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	View Document

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Performance of the Institution in broader area distinctive to its priority through following major categories:

1. MOODLE Platform:

Institute website has a link for accessing MOODLE account where the respective student/faculty can login to their account by entering user id and password. All study material including PPTs, PDFs, e-books, YouTube links are uploaded by respective faculty members for the reference of students. All the important circulars/notices are disseminated to students through MOODLE.

MOODLE platform is used effectively for monitoring student performance in the internal examinations, student's attendance, syllabus coverage etc. Objective and descriptive exams are conducted with the use of MOODLE. Unit wise assignments are also uploaded on the MOODLE and also assessed by concerned faculty members.

To promote the multi-disciplinary development; the student from any discipline and from any class in which is studying; can access the study material of all other disciplines and classes through MOODLE.

2. Industrial scholarship:

The Institute always guide the students regarding the various government as well as private scholarships available for them.

Government scholarships include Government of India Post Matric Scholarship (for SC, ST, VJNT, SBC, OBC Category), Rajashree Chatrpati Shahu Maharaj Shikshan Shulka Scholarship Scheme (EBC Category) etc. The Institute also offers its own scholarship under the heading of 'SAWKAR

Scholarship' to the meritorious students having poor family background.

Along with these scholarships provided by the government and the Institute; the Institute is promoting students to appear for various industrial scholarships like Cummins Scholarship, K C Mahindra Scholarship, LIC Scholarship, Directorate of India Army Veterans, Maharashtra Kamgar Kalyan Mandal Scholarship, Prime Minister's Scholarship, Kalyankari Scholarship, Friends of Children Scholarship, Pune, Primary teacher scholarship, Indiabulls Foundation Scholarship, Sitaram Jindal Scholarship etc.

The Institute takes special efforts on students to become eligible to receive these scholarships. Ms Nikita Bhilare and Mr Abhay Kale conduct these sessions on regular basis. The students who have already received these scholarships work as mentors for the new students. Hence the count of students getting the private scholarships is increasing every year.

Recently; Eleven students were awarded with the Cummins scholarship, three students received K.C. Mahindra scholarship and one student received LIC scholarship.

All these students received financial assistance as well as industrial mentor for projects, seminars and Graduate Engineer Trainee (GET).

File Description	Document
Any other relevant information	View Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

Arvind Gavali College of Engineering was founded under the auspices of the Samarth Educational Trust, which was founded in 1988. The trustees of the trust have extensive business experience, and a few members of the trust are highly educated and have extensive experience in the educational field. Hon. Chairman Mr Arvind Kondiram Gavali and Hon. Secretary Mr Nishant Arvind Gavali are successful educationalists and businessman. Dr Mahananda Vishweshwar Shete is a famous surgeon in Satara. Also other trustees Mr Ramesh Shamrao Shanbhag, Mr Prakash Kondiram gavali, Mr Dilip Kondiram Gavali, Mrs Nirmala Arvind Gavali are successful businessmen. Also IQAC and BOG consists of various eminent personalities from industry/education field. The Samarth Educational Trust has various Institutes under its umbrella viz. Sawkar Homoeopathic Medical College, Sawkar Pharmacy college, Arvind Gavali college of Pharmacy , Arvind Gavali College of Engineering, Arvind Gavali College of Polytechnic, Sawkar Junior College, Arvind Gavali College of B.Voc. On a regular basis, the Institute is receiving more guidance from trust personnel. The institute's BOARD OF GOVERNANCE and instructional suggestions received from the BOG of Sister institutions are discussed with the trustees, and the suggestions are implemented in the institute. Both long-term and short-term goals are discussed and established for a positive outlook. Trustees are always willing to make suggestions and participate actively.

Concluding Remarks :

Holistic development of students is achieved directly through syllabus and indirectly through various add-on courses, internships, participation through various competitions, industrial visits, major projects, guest lecture series, workshops etc.

Advanced learners are motivated for higher studies and research. Slow learners are counselled and provided with additional course materials, remedial sessions and group studies.

Students are encouraged to learn by participating in various competitions like AVISHKAR, ANVESHAN, HACKATHON, DIPEX etc. The Institute has achieved remarkable achievements in these competitions with the help of guidance from faculty members.

Institute is sensitive to community problems and also work under Unnat Bharat Abhiyan and NSS for past several years and already done significant work in the nearby villages related to drinking water, sewage treatment etc.

Institute has a department-wise interactive panel with advanced features for enhancing the learning experience of the students. Laboratories and workshops have the necessary conventional and beyond the syllabus equipment.

The Institute follows AICTE internship policy. Final year students have to undergo 06 months internship in the industry. These students are provided with internship diary which is to be maintained on daily basis by the students. The opportunities of getting placements are increased by this activity.

Along with scholarships provided by the government; the Institute is promoting students to appear for various industrial scholarships like Cummins Scholarship, K C Mahindra Scholarship, LIC Scholarship, Directorate of India Army Veterans, Maharashtra Kamgar Kalyan Mandal Scholarship, Prime Minister's Scholarship, Kalyankari Scholarship, Friends of Children Scholarship, Pune, Primary teacher scholarship, Indiabulls Foundation Scholarship etc. The Institute takes special efforts on students to become eligible to receive these scholarships. Ms Nikita Bhilare and Mr Abhay Kale conduct these sessions on regular basis.

As a receipt of excellent governance and leadership; the Institute has received CII Platinum and Gold ranking by AICTE, Leadership excellence award given by DBATU Lonere, Best promising & trusted engineering college of the year Maharashtra award by Begin up research intelligence Pvt Ltd Bengaluru, Appreciation award for the contribution as Host Institute for the conduction of University Level round of 'AVISHKAR 2022'.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
3.3.2	<p>Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years</p> <p>3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>4</td> <td>37</td> <td>57</td> <td>56</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>00</td> <td>01</td> <td>02</td> <td>00</td> </tr> </tbody> </table> <p>Remark : DVV has made the changes as per shared clarification.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	2	4	37	57	56	2021-22	2020-21	2019-20	2018-19	2017-18	01	00	01	02	00
2021-22	2020-21	2019-20	2018-19	2017-18																	
2	4	37	57	56																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
01	00	01	02	00																	
3.4.3	<p>Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years</p> <p>3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>07</td> <td>06</td> <td>07</td> <td>01</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>13</td> <td>05</td> <td>06</td> <td>04</td> <td>00</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	17	07	06	07	01	2021-22	2020-21	2019-20	2018-19	2017-18	13	05	06	04	00
2021-22	2020-21	2019-20	2018-19	2017-18																	
17	07	06	07	01																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
13	05	06	04	00																	
5.2.1	<p>Percentage of placement of outgoing students and students progressing to higher education during the last five years</p> <p>5.2.1.1. Number of outgoing students placed and / or progressed to higher education year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18															
2021-22	2020-21	2019-20	2018-19	2017-18																	

175	306	155	124	53
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Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
140	239	99	114	53

5.2.1.2. Number of outgoing students year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
336	425	243	275	304

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
336	425	243	275	304

Remark : DVV has made the changes as per shared clarification.

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

5.2.2.1. Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
2	1	4	9	2

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
2	03	4	9	00

5.2.2.2. Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
36	28	47	53	56

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
36	28	47	53	56

Remark : DVV has made the changes as per shared clarification.

5.3.1 **Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years**

5.3.1.1. *Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years*

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
2	0	3	1	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0	0

Remark : DVV has made the changes as per shared clarification.

6.5.2 **Quality assurance initiatives of the institution include:**

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2. Collaborative quality initiatives with other institution(s)/ membership of international networks**
- 3. Participation in NIRF**
- 4. any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: C. Any 2 of the above

Remark : DVV has select C. Any 2 of the above as per shared reports by HEI.

2.Extended Profile Deviations

Extended Profile Deviations

No Deviations