



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

SSVPS BS DEORE COLLEGE OF ENGINEERING

**SHRI SHIVAJI VIDYA PRASARAK SANSTHS LATE BAPUSAHEB SHIVAJIRAO
DEORE COLLEGE OF ENGINEERING, VIDYANAGARI, DEOPUR
424005**

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

April 2023

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Shri Shivaji Vidya Prasarak Sanstha (SSVPS), District Dhule was established in 1908. It runs 27 educational Institutions. In 1983, under the umbrella of this renowned trust, Bapusaheb Shivajirao Deore College of Engineering was established as one of the first generation self-financing, Co-Education Engineering Colleges in Maharashtra. The Institute is approved by Directorate of Technical Education and AICTE. Institution stands for the mark of quality, has continued to make several strides towards excellence in the last 40 years. Institute was accredited by National Board of Accreditation (NBA) in year 2003 and National Assessment and Accreditation Council (NAAC - Cycle 1) in year 2018.

The College is located at tranquil campus of 15.57 acres on a junction of NH-3, NH-6 and NH-211 in Dhule city. Institution runs with an objective to provide an opportunity to the meritorious students across the nation. We had the students from Maldives, North East, Jammu & Kashmir, Gujarat, Madhya Pradesh, Uttar Pradesh, Bihar, Karnataka, Kerala and Orissa.

Institution has an extensive journey of UG Program affiliation to the world class Pune University [till 1990], NAAC accredited A+, Kaviyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon [from 1991 till 2016]. Institute is currently affiliated with the State Government Technological University Dr. Babasaheb Ambedkar Technological University, Lonere, Dist. Raigad (M.S). Institute is also affiliated with Kaviyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (M.S.) for MBA Program only.

We have a rich legacy of our valuable alumni making us proud of their accomplishments and achievements.

We are among the 12 prestigious institutions selected by Government of Maharashtra as a Nodal center for "Unnat Maharashtra", an ambitious project of Government of India for social welfare. The outcome of this project is the generation of quality reports by "Unnat Maharashtra Abhiyan" colleges on their insights, experiences and best practices, which can then be shared with the district administrations and government of Maharashtra.

Institution offers UG Programs in Electronics, Mechanical, Civil, Computer and Electronics and Telecommunication Engineering, and PG programs in Civil, Computer Engineering, and MBA.

Vision

"A Premier Institute as a dynamic Entity Contributing in Human Resource Development"

Identifying the challenges faced by the students in the domain of presentation and soft skills. Institution conducts special and dedicated programs in collaboration with external agencies for development of students especially from rural area.

We motivate our students to opt for their final year project in a socially relevant fields like renewable energy, water conservations, agricultural applications, business incubations, environmental engineering.

Mission

To Develop Technocrats with Awareness of Socio-Economic Needs for sustainable Development

To create awareness among students, we plan a series of lectures of industrial personalities as well as visits to the nearby places.

Identifying the social and environmental issues, institute focuses on technological development and project work in the field of water conservation, and socially appealable regional issues.

We are among the 12 prestigious institutions selected by Government of Maharashtra as a Nodal center for “Unnat Maharashtra”, an ambitious project of Government of India for social welfare.

We feel proud to be a part of Center for Technology Alternatives for Rural Area (CTARA) monitored by Indian Institute of Technology, Mumbai and our faculty has participated in UMA-UNISAFE for Rural Water Supply Schemes Assessment Workshop.

We are third party auditor of “**Jalayukta Shivar**”, a dedicated Project of Government of Maharashtra.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Green pollution free campus with infrastructure facilities in the heart of the Dhule city
2. Qualified, experienced and proven faculty members with diverse background
3. Continuous faculty development initiatives to augment the skills and knowledge of the faculty members
4. Committed Alumni relationship and strong community networks
5. High faculty retention ratio
6. Culture of Research, Development and consultancy
7. Decentralized delegation of powers to various in-charge officers, Heads and the Principal for efficient administration
8. Industry relevant skill enhancement courses for bridging the gap in curriculum and industry to improve the employability skills of the students
9. Library resources with a wide range of reference books, text books, journals, magazines, online resources and digital library

Institutional Weakness

1. Located in undeveloped industrialized region
2. Low placement in core companies
3. Students’ non-exposure to participative based learning before joining the program
4. Most of the students belong to rural background
5. Dearth of funded projects from various funding agencies

Institutional Opportunity

1. Contribution in development community based projects for society
2. Enhancement of the Entrepreneurship Development Cell to inculcate the entrepreneurship skills among students
3. Establishment of technology incubation center
4. Enhancement of the application and research in the area of renewable energy for the masses

Institutional Challenge

1. Practical and extra-curricular exposure to students in Pandemic situation
2. Global recession and changes in economic policies
3. Proliferation of technical institutions
4. Encourage and produce more entrepreneurs
5. Qualitative achievement through a balance between academic, research and administration

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Institute focuses on Social responsibility, Sustainability, Discipline, Innovation and Creativity as its core values.

Social responsibility is inculcated through several workshops, competitions and experts' talks like organ donation camp, blood donation camp, art of living, Effects of smoking and tobacco consumption etc. Institute organized gender equity programs. Safety and security for girls, is provided through counseling.

For sustainable development, Institute focuses research and development by considering environmental issues. Many projects in the field of water conservation, renewable energy like design and development of wind mill, water turbine and solar cookers are carried out by students. Institute not only demonstrates but also acts to save the environment by doing regular tree plantation and maintaining green college campus, rain water harvesting and motivating students and staff for the same activities.

Institute exhibits its best practices through National level technical as well as cultural events such as IMPULSE, TECHNOFEST, Nurturing Intelligence for curious Engineers (NICE) and Present Around the World (PATW) and also regularly Running Various Technical Clubs (Mega ATV, E-vehicle, Energy for future, Artificial Intelligence, Robotics Club) These events enhance technical, presentation, organizing skills and Interview techniques.

Institute is authorized for third party inspection of watershed works under central Government's Drought Prone Areas Programme (DPAP) and third party check for the "Jalyukta Shivar" Projects of Maharashtra government. Institute has been empanelled for Unnat Maharashtra Abhiyan. Institute work with the many local organization promoting technical awareness and providing engineering solutions to society.

Teaching-learning and Evaluation

The College aims to inculcate the highest intellectual standards through rigorous academic commitment and

discipline. It is affiliated to Dr. Babasaheb Ambedaker Technological University, Lonere for first year engineering (B.Tech.) and first year M.Tech. from academic year 2017-18. Institute MBA programme is affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (M.S.)

The institute is a self-financing institution and follows the curriculum of the universities. Faculty actively contributes to the curriculum design by participating and conducting syllabus revision workshops.

An Academic Calendar is formulated for the institution as a whole, rendering positive allocation of time and resources for implementation of the curriculum. The institution admits students through the central allotment process run by the government. The college ensures that the objective of curriculum is imparted through innovative teaching methods such as power point presentation, seminars, assignments, discussions, mock interviews, workshops, industrial visits, usage of Wi-Fi facility, library etc.

At final year level students can opt the subjects of their choice from the available options under elective courses category. Electives are offered at both post graduate and under graduate level. The programs offered by the Institute have semester system. Remedial classes are arranged for slow and advanced learners are enriched accordingly.

The feedback from the student is obtained both orally and in written format and other stake holders communicates their feedbacks at appropriate meetings. Technical activities of professional societies and student associations help to widen their horizons of knowledge. The college offers skill-development and value-addition courses to enrich curriculum.

Research, Innovations and Extension

Research is one of the important aspects of a technical institute. Promotion of research for its application to the society remains the mission of the institute. The Institute has identified three areas - research, social and environmental issues for attainment of its mission.

The research within the Institute is carried by the recognized research guides and scholars. Some research projects are funded by Government and Non-Government agencies recently. Workshops and seminars are conducted on IPR and industry academia innovative practices in the institute. Total 310 research papers are published in national and international Journals as well as 75 Books and chapters in edited volumes of national and international conference proceedings. Total 06 patents are granted and 15 patents are applied by institute teaching faculty.

Institution has developed an ecosystem for innovations and other initiatives for creation and transfer of knowledge, projects developed in renewable energy field, IPR based activities, energy audit and conservation.

Many extension activities and outreach programs like Swachha Bharat Abhiyan, Tree plantation, Blood Donation Camp, prevention of sexual harassment at work place, Cyber Crime, Gender Issue etc. are conducted in community in terms of impact and sensitizing students to social issues and holistic development in the institute.

Principal of the institute is honored with "Visionary Principal of the year 2022" by Global Scholars Foundation, Pune. The functional MoUs are formed with various Industries for the purpose of internship, on job training, research etc.

Institute is empanelled under "Unnat Maharashtra Abhiyan". Key projects under this abhiyan are "Jalyukt shivar", RWS audits etc. Institute is engaged in consultancy activities since its inception.

Infrastructure and Learning Resources

Infrastructural facilities and its proper maintenance are prerequisites for improving the quality of teaching – learning process. Since its establishment in 1983, the institute has always given top priority to the development of infrastructure and learning resources. Today it has a vast, well maintained campus of area 15.57 acre with built up area of 23,826 sq. m. Well-equipped research laboratories, ICT enabled class rooms and seminar halls, boys' and girls' hostels with Wi-Fi facility, sport stadia, cafeteria and amphitheater for cultural activities are inspirations to students and faculty. Uninterrupted electricity supply, ensured with the help of generators, 24 hour water supply to hostel and campus, ramps and wheel chairs for disabled students are the essential features considered.

Central library, automated using ILMS, having more than 60000 books and 2000 journals in all disciplines of engineering and management act as a hub of knowledge. In addition, the library has several e-journals and e-books, BIS codes, encyclopedias etc. Use of these resources is evident in terms of large number of publications in peer reviewed and referred journals.

The expenditure on augmentation and maintenance of these vast infrastructures occupies a large part of annual expenditure of the institution. The institution has well established systems and procedures for maintaining and utilizing the infrastructural facilities.

Student Support and Progression

The Institute takes efforts to serve students of different backgrounds and abilities through effective teaching-learning experiences. Each faculty imparts a learning mechanism so as to groom every student to compete with the ever changing technological world. Use of different teaching methods and aids make students to improve 'thinking', research attitude and investigation. The strategies like collaborative learning, interactive learning, independent learning, problem based learning, cooperative learning and peer instruction makes the teaching process to be a learner centric. In addition to curriculum, the institute encourages students to undergo internships, to participate in project competitions, to attend conferences and value-added training programs.

Innovative teaching practices such as use of simulation tools in classroom, identification of topics beyond the syllabus, learning by demonstration etc., allow students to learn at their own pace.

The emphasis of Teaching-Learning is on fostering global competencies and inculcating value system among students. Faculties are trained to mentor students and to provide learner-centered education. They are also sent for faculty development programs, conferences, industry trainings, seminars etc. to improve their competencies. The latest technological advancement and innovations in educational transactions are well adapted by the institution to make a visible impact on academic development as well as on evaluation. Latest summative and formative assessment techniques based on technology, wherever possible, are used to evaluate attainment levels of student learning outcomes. This evaluation process is reformed and is being evolved continuously.

Governance, Leadership and Management

The institute is governed by the Shri Shivaji Vidya Prasarak Sanstha which is well known for its commitment to society and espousing the cause of Education with a strong foundation of Values and Ethics in all its decision making process and governance initiatives.

The institute practices the decentralized governance and participative decision making. The institute is progressive, forward looking and enthusiastic in its contribution to the growth and development of all the stakeholders, with concern for Equity, Expansion, Employability and Excellence.

Institute focuses on its development through perspective plan that emphasizes on Faculty and Student development, enhancing industry institute collaborations and campus infrastructure.

The distinguished personalities with rich experience in the field of Higher Education, research and industry are on the Governing body of Local Managing Committee providing guidance for all the activities of the institute. The Leadership of the institute are committed with deep passion and zeal, in enabling all the departments to enhance their contribution towards excellence in engineering and Management education along with Knowledge creation.

The quality of the academics is assured and monitored through Academic Advancement and Administration (AAA) system of affiliated university.

Institutional Values and Best Practices

The Institute, located in the area of under developed industrial zone, student support is of utmost importance for two reasons;

- Majority of the students are from rural and sub-urban areas.
- Majority of the students come either from middle class or lower income group families.

Approximately 65% of the students get government scholarships and the institute ensures that all eligible students get the scholarship and no one is deprived of it. Besides many other measures for capability enhancement, we provide training on communication skill, quantitative aptitude and interview skills through soft skill development agencies from fourth to seventh semesters.

Under local guardian scheme a faculty member counsels, guides and supports about 10 to 15 students.

The Institute provides platform for its student for higher studies and competitive examinations. Institute plays a vital role in Training and Placements. Institute is accredited by Tata Consultancy Services for day-one campus placements. Students are placed through campus and off campus placement drives. Institute organizes national level technical and cultural events such as Impulse, Technofest, NICE, PATW and SPANDAN regularly. Many students participate in regional and National level sports competitions. We have a large number of alumni all over India and abroad and we are planning to exploit the benefits of the same in the near future for benefit of the students and the Institute.

In the institute each department has Student Association such as MESA (Mechanical Engineering Student Association), CESA (Civil Engineering Student Association), etc. Every year institute level elections are conducted to form the body of Students' Association. In all the institute level activities the student representatives of these association plays vital role. The major objective to form these associatios is to develop

management skill, leadership skill and overall personality of student.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SSVPS BS DEORE COLLEGE OF ENGINEERING
Address	Shri Shivaji Vidya Prasarak Sansths Late Bapusaheb Shivajirao Deore College of Engineering, Vidyanagari, Deopur
City	Dhule
State	Maharashtra
Pin	424005
Website	www.ssvpsengg.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Hitendra D. Patil	02562-272229	9545877111	02562-273403	princi.ssvps@gmail.com
Professor	Purushottam S. Desale	02562-272713	9822267995	02562-273403	purudesale@gmail.com

Status of the Institution	
Institution Status	Private and 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	
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State	University name	Document
Maharashtra	Dr. Babasaheb Ambedkar Technological University	View Document
Maharashtra	Kavayitri Bahinabai Chaudhari North Maharashtra 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	02-07-2022	12	
AICTE	View Document	02-07-2022	12	
AICTE	View Document	02-07-2022	12	

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?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Shri Shivaji Vidya Prasarak Sansths Late Bapusaheb Shivajirao Deore College of Engineering, Vidyanagari, Deopur	Semi-urban	15.56	23826

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	English	60	49
UG	BTech,Computer Engineering	48	HSC	English	120	120
UG	BTech,Mechanical Engineering	48	HSC	English	60	60
UG	BTech,Electronics Engineering	48	HSC	English	60	60
UG	BTech,Electronics And Telecommunication Engineering	48	HSC	English	60	60
PG	Mtech,Civil Engineering	24	B.Tech Civil Engineering	English	18	8
PG	Mtech,Computer Engineering	24	B. Tech Computer Engineering	English	18	2
PG	MBA,Management Studies	24	MBA CET	English	60	60

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	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	9				8				65			
Recruited	8	1	0	9	6	2	0	8	44	21	0	65
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				90
Recruited	87	3	0	90
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				14
Recruited	14	0	0	14
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.	8	1	0	2	1	0	1	0	0	13
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	3	1	0	44	21	0	69
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	1	0	0	1
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	2	0	2
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
	0	0	0	0	0

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	248	0	0	0	248
	Female	139	0	0	0	139
	Others	0	0	0	0	0
PG	Male	39	0	0	0	39
	Female	40	0	0	0	40
	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	20	16	10	13
	Female	7	12	9	13
	Others	0	0	0	0
ST	Male	9	5	3	7
	Female	4	5	5	4
	Others	0	0	0	0
OBC	Male	37	39	30	31
	Female	31	32	21	33
	Others	0	0	0	0
General	Male	148	106	89	117
	Female	75	65	45	89
	Others	0	0	0	0
Others	Male	22	17	10	15
	Female	14	10	8	15
	Others	0	0	0	0
Total		367	307	230	337

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>Institute ensures the all round development of students by ensuring the social, physical, emotional and moral values. Institute is preparing to include multidisciplinary subjects as per the National Educational Policy 2020. For mechanical engineering students institute offers value added course like automation, vehicle diagnostics, automotive air conditioning, robotics etc. For computer engineering students institute has collaborated with professional trainers like Eduskills, Blueprism, Redhat etc. and engages the students for multidisciplinary learning. Besides these beyond curriculum courses institute also offers the other audit courses designed by the affiliating university like Human values, Foreign language, Environment, Building sustainability, Skill development etc. Keeping in view the problems faced by the students, institute plans to set up additional trainings by the industry persons during students' internship. The aim is to make the students more employable and pave a way towards self-employment. Institute follows the outcome based education and identifies programme outcomes along with courses outcomes that define the specific knowledge, skills, attitudes and values that are to be acquired by the learner and ensures that each programme outcomes are attained through various curricular, cocurricular and extracurricular activities. Summative and Formative assessments and assignments are used to evaluate the students learning outcome.</p>
2. Academic bank of credits (ABC):	<p>Institute is affiliated to the DBATU Lonere and need to follow the instructions by the affiliating university regarding the implementation of Academic Bank of Credits. The affiliating university conducted CONFERENCE ON NATIONAL EDUCATION POLICY-2020 Convened by Union Ministry of Education for Governor's, Education Ministers and Vice-Chancellors in September 07, 2020. Affiliating university in the month of the Oct 2022 already taken a step to register the students with ABC and link their examination data with ABC portal. Further process regarding this will be implemented as per the guidelines of the university.</p>
3. Skill development:	<p>In the curriculum Dr. Babasheb Ambedkar Technological University internship is mandatory to the students as a part of skill development. University</p>

	<p>organizes AVISHKAR project competition to provide platform for the student to present ideas and skills. Institute has a best practice of inculcating the various skills among the students. For this institute has established the Skill Development Centre as an initiative and participates in MEGA ATV national competition every year. Institute has a formal MoU with the industries like Indian Biodiesel Corporation, TRUMPCAD TECHNOLOGIES Pune, Laghu Udyog Bharati Dhule Unit and established the separate research laboratory. Students are encouraged to develop their final year project based on the requirements related to industry, society, environment and technology advancements. This ensures the need based skill development of the students. During the academics, students need to complete their internship in the industry specific to their discipline for improvements in the industry oriented skills.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>Institute is affiliated to the Dr. Babasaheb Ambedkar Technological University, Lonere and follows the curriculum designed by the university. Hence institute must have to wait till the university introduces the courses in Indian language. Institute offers professional engineering program and the content of this curriculum are mostly available in international English language. Hence, institute needs some time to reach to better solution. However, institute takes care of the appropriate integration of the Indian language through the following practices • Use of Hindi or Local language during teaching and learning for the better understanding of the courses • Flexibility is given to the student to use Indian language during various internal communication which is easily understood by the group of people • Internal notices and circulars are disseminated with the use of national language • University circulars are disseminated in Marathi and English language for easy understanding among the students • In Cultural Events such as annual gathering students are encouraged to use national languages in skit. • Use of local language during various feedback • Use of local language for the various academic related displays • Local language news papers are available in the library • Indian languages books are available in the library</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>Institute offers the professional Engineering program</p>

	<p>and implemented the 100% outcome based education with following philosophy • Understanding the needs and expectations of the stake holders • Establishing the Vision and Mission statements for each program and the institute • Defining the Programme Educational Objectives (PEO) statements for each programme that describes what, student should able to do in his/her professional life after few years of his graduation • Defining the Programme Outcome (PO) statements based on the graduate attributes which are adopted globally. These are the statements that describes what student should able to do at the end of his graduate engineering program • Defining the Course Outcome (CO) statements based on the particular course content that describes what, student should able to do at the end of learning of the course • Use of higher order of learning levels as per blooms taxonomy for designing the session plan • Use of various cognitive and motor skills • Establishing the course level CO-PO mapping for with proper justifications • Establishing the program level course PO • Continuous internal evaluation based on the defined CO-PO mapping for the desired outcome and use of the results for evaluating the direct attainment • Organizing the various co-curricular and extracurricular activities and use of the results for evaluating the indirect attainment • Evaluating the CO and PO attainment for the each course (both direct and indirect methods) • Evaluating the PO attainment for each programme</p>
<p>6. Distance education/online education:</p>	<p>Presently institute is preparing itself to offer vocational course through ODL (Open Distance Learning) mode. Keeping in view the convenience of the student, the various technological tools used by the faculties especially during the pandemic lockdown are Google Classroom, Zoom, using videos as teaching and learning aids, Use of virtual labs, Group collaboration etc. Also assessments have been conducted are some of the institutional efforts towards blended learning.</p>

Institutional Initiatives for Electoral Literacy

<p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p>	<p>Yes. ELC Coordinator - Prof. S. V. Patil ELC staff Member - One Teaching Faculty of each department.</p>
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	ELC Student member - One Student from each class
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?	Yes. Students' co-ordinator and co-ordinating faculty members are appointed by the College and the ELCs are functional. The ELCs are representative in character.
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 ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	Yes. The students voluntary contribute 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 ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.
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.	The socially relevant initiatives taken by College in electoral related issues especially awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc. as per the direction of Government Election authorities.
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 students as voters.	All the students above 18 years in the institute are enrolled as voter in the electoral roll.

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
1595	1528	1452	1622	1621

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

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

Response: 137

File Description	Document
Upload Supporting Document	View Document
Institutional data in 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
86	90	91	108	108

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
99	76	130	125	148

File Description	Document
Upload Supporting Document	View Document

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 institute has followed systematic and strategic approach in designing and developing Outcome Base Education (OBE) framework. At the beginning of each academic year, Dr. Babasaheb Technological University, Lonere, a State technological University, Maharashtra gives guidelines about the curriculum plan. Institute conducts meetings with the all Heads once in a month as well as Internal Quality Assurance Committee (IQAC) to discuss and develop plan of action for effective execution of the curriculum. Data Science, Artificial Intelligence, Embedded system, Renewable Energy, Environmental Impact Assessment Skill oriented subjects are introduced to cope up with the industry requirement. Based on the University calendar, institute prepares its academic calendar which includes schedule for Internal Sessional Examination (ISE) and Internal continuous Assessment (ICA) to evaluate the students' performance. Accordingly, Dean Academic of the institute prepares Academic Calendar, Activity calendar in consultation with the Principal and then communicated to the Dean, Head and faculty of the departments. Head of the Department distributes the subject by considering the subject choice form filled by the faculty members in order to have smooth conduction of curriculum,

Subject specific groups are formed among the faculty members. Head allocates the working hours according to the competency of faculty. Time Table coordinator of each department prepares department Time Table, Academic calendar and Activity calendar in consultation with Head of the Department.

Before commencement of Semester, meeting is organized by Head of the Department to prepare OBE document. The components like Program Educational Objectives (PEO), Program Outcomes (PO), Course objectives (CO) and course outcomes are developed and mapped. The teaching, learning assessment strategies are designed for attainment of Course objectives (CO) and Program Outcomes (PO). Each course teacher presents its OBE document in front of all faculty members. After receiving feedback from all teachers and based on discussion held during meeting, document is modified by respective teacher and represented for finalization. Every Faculty member tries to achieve Program Educational Objectives (PEO) and Program Objective (PO) of their branch of study is framed. The Students of that branch will gain strong fundamental knowledge and acquires enough managerial skills for lifelong learning.

Academic Monitoring Committee (AMC) monitors all the academics, student feedback, and overall teaching learning process to achieve maximum academic performance of the students with help of concerned senior subject Faculty and Head of Department. IQAC monitors the academic activities on regular basis to ensure smooth execution of time-table. It also monitors implementation of academic calendar and teaching learning process. Expert lectures, Seminars, Workshops, Training Programs etc. are conducted on regular basis for the effective implementation of curriculum. Additionally assignments, class tests are conducted to assess the knowledge of the students. Institute departments conduct mock test exams at the end of semester to assess the student progress in particular course. The overall performance and evaluation of students is properly done through continuous assessment of students in the semester /

academic year.	
File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)	
Response: 5	
File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Other Upload Files

1

[View Document](#)

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 13.88

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
80	60	152	390	403

File Description	Document
Upload supporting document	View Document
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 in transacting the Curriculum

Response:

Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Environment and Sustainability

All the first year students are exposed to the environmental issues through a subject BTES105/205 Energy and Environment Engineering which deals with air and water pollution and its control. Students are also made aware about vehicular and industrial pollution including noise pollution. In induction programme expert lectures are arranged for efficient utilization of energy resources. Institution organizes the programme for tree plantation in and outside the campus by the students and faculty members every year.

Gender

The college has Women Grievance Cell and Grievance Redressal Cell to provide counseling to students, promote gender equity among students and also deal with related issues of safety and security of female students, staff and faculty. The college campus is secured with CCTV and high level security. There are separate in-campus Boys' & Girls' hostel for providing the safe environment to all students. Various subjects are included in curriculum where gender equality are taught to students like Development Engineering BTHM605A.

Human Values

The institution follows the DBATU, Lonere, curriculum which includes the subject Basic Human Rights BTHM403 where students are taught about basic human values, human rights, gender and social equality, Rights of citizen, Rights of working and exploited people are discussed. Students are exposed to courses like Cyber Security, Organizational Behavior and Business Ethics to make them aware about professionalism, human values, behavioral and ethical issues and protection against cyber bullying and frauds. Students are made aware on social justice a standard how to promote human dignity, rights fulfillment of all of humanity. In first year induction programme an expert talk is conducted on human values and cyber security.

Professional Ethics

Institution follows the DBATU Lonere, curriculum which includes the subject Basic Human Rights BTHM403 and Economics and Management BTHM505 as subjects that includes some of the principles of professional ethics which govern the behaviour of a person or group in a business environment. Like values, professional ethics provide rules on how a person should behave towards other people and institutions in such an environment. Some of the other technical subjects such as software engineering provide exposure to latest tools and technologies and aware of the impact of professional engineering solution in environmental, societal, professional ethics and able to communicate effectively.

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: 72.29

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

Response: 1153

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*

Response: B. Feedback collected, analysed and action has been taken and communicated to the relevant bodies

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 71.89

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2021-22	2020-21	2019-20	2018-19	2017-18
367	307	230	337	398

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
456	456	456	456	456

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

2.1.2 Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 73.17

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2021-22	2020-21	2019-20	2018-19	2017-18
144	136	96	131	161

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
183	186	174	184	186

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.2 Student Teacher Ratio

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

Response: 18.55

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 and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

The adopted strategies for Student Centered learning by the institute are as follows:

- **Interactive Learning:** Interactive instructional strategies aim to strengthen observational skills, listening skills, communication skills, and interpersonal skills of the students. Interactive instructional strategies adopted are brainstorming sessions, question - answer session, picture

prompt, problem-solving, storytelling, starting each session with Recall, Summarize, Question, Connect, and Comment, What / How / Why Outlines, use of YouTube videos embedded into PPT etc.

- Collaborative Learning: Discussion during theory and practical sessions.
- Independent Learning: Students are motivated for independent learning by providing learning resources.
- Problem-based Learning: In project work, students are engaged in complex and challenging problems and collaboratively work towards the solution.
- Support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students are as follows:
 - Teachers are encouraged to use LCD Projector and other ICT tools such as PPT, Videos, Google Meet, Zoom etc.
 - Teachers give study materials and assignments to the students.
 - Industrial visits are arranged to make students more practical and informative.
 - Students counseling by individual Local Guardian facilitate them to discuss issues related to learning.
 - Library resources and its services provide ample opportunities to collaborative and independent learning.
 - Students organize and participate in various co-curricular and extra-curricular activities that is fully “student-centric” and they nurture their organizational, managerial and communication skills apart from enriching their technical knowledge.
 - Provision of language lab for students to improve communication skills.
 - The college has well equipped seminar halls where students participate in GDs, Debates and Seminars etc.

Teachers in the Institute use ICT- enabled tools including online resources for effective teaching and learning process

The Institution has adapted itself to the latest trends and tools of teaching and learning. Use of ICT enabled tools for effective classroom interaction is one of the significant up gradation towards creating e-learning atmosphere in addition to the traditional chalk-board method. The institution is well equipped with the advanced ICT enabled teaching learning tools such as virtual classrooms, LCD projectors, well equipped computers etc. All the above equipments are connected with high speed internet for the purpose of utilizing online resources. Most of our faculties are well trained to use all of them for effective and interactive teaching process. They are also uploaded e-contents like videos, PPTs, etc. in Google Classroom which can be accessed online by all the students from anywhere and whenever they want. At the same time all our students are also registered in the G-Suite to get access to make the most of the resources prepared and uploaded by subject experts. We use ICT enabled tools not only for teaching and learning but also for assessment. Online assessment tools such as Google forms are being used extensively by teaching faculties.

File Description	Document
Upload 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 year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
86	90	91	108	108

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

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

Response: 12.84

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
14	14	13	12	9

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document
Provide Links for any other relevant document to support the claim (if any)	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:

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

- College is affiliated to DBATU Technical University and follows its rules and guidelines regarding the assessment and evaluation process of students.
- Academic calendar is prepared at the beginning of each semester also the dates and schedule of internal assessment of laboratory courses, seminars, summer internship and projects are displayed through the notices to the students. Thus, students come to know about all the dates of Internal Assessment Exams-CA-I, MSE and CA-II well in advance.
- For theory assessment the question paper is prepared by faculty member teaching that particular subject at department level from question bank provided to students.
- Assignments and Tutorials are given on each unit subject wise.
- Evaluation of copies is done by teachers within in week after examination and copies are shown to students for redressal.
- Lab classes are followed by a workbook assignment for performance evaluation and attendance.
- All teachers maintain the record of lab, theory and all internal exams in attendance and lab register.
- The final internal assessment marks are assigned on the basis of attendance, marks of class test and assignment marks, and are uploaded on university ERP at the end of semester.
- The results are reviewed and analysed by the heads of respective departments.

Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient:

- Evaluation of copies is done by teachers within in week after examination; copies are shown to students for redressal.
- Grievences related to internal examination are recorded and resolved by respective subject teacher and if there is any correction it is updated in internal assessment record by respective faculty.
- Any grievances related to university question paper like out of syllabus, repeated questions, improper split of marks, marks missed, wrong question number during semester exams are addressed to the center superintendent and the same reported to the university immediately through center controller (University representative).
- If a student is unable to appear for internal examination due to medical or any genuine reason, he/she can give the re-examination or assignments as per norms of the institute, provided that he/she submits application with proper documents.
- The Head of Department, Controller of Examination and the internal examination committee keeps an eye on the overall procedure to make an internal examination mechanism even better.

During pandemic all examinations and assessments were conducted online through Google classroom and

proctoring was done via Google meet.

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

Response:

Yes.

To achieve vision and mission of the college, every programme has a set of programme outcomes which will also reflect the vision and mission statements of the department. The college has clearly stated programme outcomes (PO) framed by the department faculty, program educational objectives outcomes (PEO) for every programme along with course objectives and outcomes (CO-CO) for every course which are made available to the students along with the syllabus or by the course teacher at the beginning of the semester. The POs define the abilities of the student of that program expected at the time of graduation and COs are the learning outcomes that the students imbibe at the end of each course. Mapping of COs with the corresponding POs is achieved at the end of the semester.

The same are made aware to the students and staff through lab file, course file etc. Institute assists the teachers to achieve these by proper support systems. These are published on the website of the college and also displayed in the department. Institute assists the teachers to achieve these by proper support systems.

The Programme Outcomes (POs) for a given programme are mapped with PEOs. The courses are designed in such a way that Course Outcomes (COs) lead to achievement of POs and, in turn, PEOs. Eventually, it will culminate into development of graduate attributes in the student.

At the beginning of each semester, an orientation program is conducted in every department where all members of faculty discuss, refine and update the course outcomes and objects including OBE document.

- Counseling is done for all the students on the importance of learning outcomes. Course outcomes are communicated to students during lecture hours before the commencement of course in every semester in class rooms and laboratories by each subject teacher.
- Department meetings are organized and there is a continuous briefing on Learning Outcomes to the staff.
- PEOs define the capabilities, the graduates of the institute are expected to achieve over a period of four years of their graduation while the POs define the capabilities the students of a program are expected to achieve at the time of graduation Since PEOs describe the career and qualification accomplishment of the graduates, the statements are common to all the programs. These statements

give emphasis on knowledge, skill and attitude.

The PEOs for all programs are:

[PEO 1]	To demonstrate an ability to design, analyze synthesize, develop, implement and control communication systems for hierarchical and complex application levels.
[PEO 2]	To pursue expertise in technological solution provider over wide range of platforms in communication era keeping a pace with emerging technology.
[PEO 3]	To be a contributing member of a multi-disciplinary product development team with an awareness of individual professional and ethical responsibilities.
[PEO 4]	To communicate effectively to varied customer database with customized services.
[PEO 5]	To track life-long learning through graduate education, participation in professional activities, acquisition of new technical proficiencies, managerial and leadership skills in Engineering, Engineering management, applied research and education.

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

2.6.2 Attainment of POs and COs are evaluated. Explain with evidence in a maximum of 500 words

Response:

Institution has a well defined process to monitor the progress and performance of students implemented at department level. All departments follow this process and communicate this to their parents at regular intervals.

The institute and individual teachers use assessment or evaluation as an indicator for evaluating students' performance, attainment of learning outcomes and planning. The institute has hierarchical structure with Principal, Dean Academics, Head of the Departments and subject teachers to facilitate the achievement of the intended learning outcomes. At the beginning of every academic year, a meeting is conducted by the Principal along with Dean Academics and Head of the Departments to finalize academic strategy and issues related to academics, co-curricular activities and extra-curricular activities are also discussed in the meeting with an aim to improve the learning outcomes. The institute ensures the achievement of programme outcomes through effective planning and implementation of academic calendar that enriches academics with co-curricular and extra-curricular activities. Institute uses university results, participation

of students in co-curricular and extra-curricular activities at the university or state level as an indicator.

Every faculty follows Outcome Based Education guidelines for development of teaching plan. The college ensures to facilitate students to achieve all the learning outcomes by providing the required resources. At the departmental and institute levels the learning outcomes are frequently monitored. The gap in teaching learning processes is indicated, analyzed and remedial steps like Organizing Seminars and Guest lectures of industry persons and eminent academicians are arranged to ensure attainment of learning outcomes. The Institution monitors the assessment of attainment of learning outcomes through various ways or mechanisms like examination performance, test performance, project work, stakeholders' feedback, Co-curricular involvement.

- The analysis of the outcomes of unit tests is indicative of the level of understanding of the course by the students. The progress and performance of students are communicated to the students by displaying the answer scripts of college level exams in the classroom subject-wise. The teacher accordingly updates the teaching methods to cater to the needs of the students after discussion in department meeting.
- After the declaration of University examination results, the institute analyses the results to understand attainment of course outcomes in general. To develop the communication with students and allotted faculty local guardian, student-local guardian meet of an hour is arranged every week.
- At the end of each class test, the class coordinator prepares academic progress assessment sheet which consist of the marks obtained by the students of the class in each course in the test and analyses the performance. The compilation and analysis is discussed in the departmental meeting. A student, whose performance is below average in the examination, is counseled by the faculty. Continuous assessment for the term work is shown to the students regularly as an indicator for self-analysis and improvement. Department maintain the attendance & assessment record book for each subject. Attendance of the students is monitored and if it is not satisfactory then it is conveyed to the parents.

This process ensures the intended learning outcomes are achieved.

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

2.6.3 Pass percentage of Students during last five years (excluding backlog students)

Response: 92.87

2.6.3.1 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
400	474	437	369	364

2.6.3.2 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
415	478	441	438	429

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process****Response: 3.53**

File Description	Document
Upload database of all students on roll as per data template	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: 3.36

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

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0.4	2.96

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, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

The mini projects in Third Year and Final Year projects are selected with mutual consent of head of department, faculty and students. Students' groups are formed as per their interest. The Mechanical Engineering Department has developed number of projects in renewable energy field like solar water heater, solar air heater, solar cooker, solar distillation, solar dryer cum disinfectant etc. College is empanelled under "Unnat Maharashtra Abhiyan" (UMA) and "Unnat Bharat Abhiyan" (UBA). College has received grant of Rs. 50,000/- for survey in five villages that are adopted in Dhule district under "Unnat Bharat Abhiyan". Key projects under UMA such as "Jalyuktshivar" and "Rural Water Supply" audits are done by Civil Engineering Department. Number of national and international patents has been filed by the faculty of various departments. These Intellectual Property Rights (IPR) based activities inculcate more innovation in the form of project ideas. For transferring the knowledge and technology internship, workshop, training, and webinar were taken. Some of them consist of Pilot projects, workshop on non-violent communication and expert lectures on:

- Innovations in Solar Thermal Energy Utilization
- Innovations in Solar Thermal Applications
- Journey of Project to Patent

- How Patent Encourage the Indigenous Productivity
- Solar Energy – Opportunities
- Key Challenges and Potential solutions
- Heat Transfer in Solar Thermal Applications
- Emerging trends in Mechanical Engineering
- webinar on Project Selection
- Innovation in solar thermal energy.

A team of 30 students and one faculty is working on Mega ATV (All Terrain Vehicle) project and participated in all India level Mega ATV competition first time at Goa on 10 April to 12 April 2021 and second time at Goa on 12 May to 14 May 2022.

IMPULSE and TECHNOFEST are national level technical events are organized. IMPULSE is organized in first semester and TECHNOFEST is organized in second semester. In these technical events different competitions are organized. It is observed that organizing these events results into improvement in the personality development of student along with their presentation and communication skill and technical skills. This enhances quality of projects, seminar, and research. “Avishkar” the university level competition organised in the Dr. Babasaheb Ambedkar Technological University, Lonere. In this event one student from Civil, Computer and Mechanical Engineering have recieved the prize in year 2019. Mechanical Engineering student has won award for the project 'solar disinfecter' under the Research Innovation category. To develop technical skills of students industrial visits were organised at Akkalpada Dam site, Shivajinagar Solar Power Plant, Wind Farm (Wind Mills) at Titane, Sakri, Jawahar Sootgirani, Dhule, Shri Ganesh Text Tile Mill, Boris, Sulwade Barrage (Tapi River) Reservoir Project, R. M. Phosphate (Produce Fertilizers), Nardana MIDC, Dhule. Visits to sites such as trekking on Galana Fort, statue of Ahimsa, the first Jain Tirthankara, Rishabhanatha, the tallest Jain statue in the world as per Guinness World Records at Mangi-Tungi Hills, Taharabad, Nashik were organized. Institute provides registration, travelling and other expenses for students participating in various competitions, conferences, and seminars.

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: 7

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
7	0	0	0	0

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

3.3 Research Publications and Awards

<p>3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years</p> <p>Response: 0.45</p>				
<p>3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years</p>				
2021-22	2020-21	2019-20	2018-19	2017-18
10	4	16	16	15
File Description	Document			
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document			
Link to re-directing to journal source-cite website in case of digital journals	View Document			
Links to the papers published in journals listed in UGC CARE list or	View Document			
Institutional data in the prescribed format	View Document			
Provide Links for any other relevant document to support the claim (if any)	View Document			

<p>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</p> <p>Response: 0.1</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>				

2021-22	2020-21	2019-20	2018-19	2017-18
4	3	5	2	0

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.4 Extension Activities

3.4.1 Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

Sanitation and cleanliness are a basic problem and one of the important social issues of our country which creates acute health problems. Guidance programme on this issue was organised. Institute arrange “SWATCH BHARAT ABHIYAN” activity, every year to keep our college campus clean and hygienic. Institute have the Internal Complaint Committee (Ladies grievances committee) to solve the girls' problems. Also under this scheme various programs are arranged by inviting eminent persons to deliver the lectures and guidance, like Poster presentation on ‘WOMEN & TECHNOLOGY’, Lecture on ‘WOMEN HEALTH’, Counseling by NGO member to first year girls, Lecture on ‘TODAY’S YOUTH CHALLENGES’, Entrepreneurship Development Program, Health and Sanitization, Laws regarding family harassment, Women Protection, Cyber Crime, Gender Equality: Time Has Changed Now, Women Safety Laws, Mahila Cancer Mukti Abhiyan. Online quiz was organized on COVID-19 Awareness and e-certificates of participation were distributed to more than 1000 participants.

Every year “Tree plantation program” was arranged during monsoon. Every year blood donation camp and Yoga Days were arranged. Institute has three yoga teachers guide the students continuously. In personality development program, students were guided by renowned persons, on communication skill, leadership quality and moral values. Students are going through the four weeks programme on soft skill development. Institute used to celebrate Engineers Day, Teachers Day, and Shiv Jayanti Mahotsav. On annual social gathering, “Spandan” various cultural programmes were arranged. In cultural competition teams of student’s present variety of entertainment including act, dance, painting, singing, drama, art etc. based on specific theme based addressing social cutting-edge issues. Institute has key role in KG To PG programmes, where our team of students and faculty inspires students and parents in society about technical education and social need-based projects. In calendar technical events like Impulse and Techno-

fest, following are some highlighted issues. In Poster Presentation themes are, Save Girl-child, Addiction Curse to Youth, and Ideal Parameters for Acche Din, Save Energy Save Earth and Andhashradha (Superstition). In PPT competition students must present on Ease in Human Life, Technology as a Core Strength of Nation, and Recent Trends in Energy Harvesting from Waste and Technology as a Core Strength of Nation. Students have participated in “Hackathon” programme.

As a part of co-curriculum MBA students visited “Shri Sanskaar Balgruh” (Home for a mentally challenged Girl Children) and celebrate birth day of MBA department student Miss. Radhika Agrawal and entertained the children, distributed snacks, stationery materials. Visited "Kushatha Rog Ashram", Dhule in cooperation with Bandhan Foundation, Dhule to celebrate New Year and Makar Sankranti and distribute few essential commodities. E & TC Department visited Matoshri Vridhashram, Dhule and distributes fruits. Through such projects students are not only learn the social issues but also suggest various recommendations/solutions to the problems prevailing in the society.

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:

The ecosystem of research, innovation and social awareness is developed in the institution get rewarded in terms of various patents and awards from social institutions/organisations. This includes awards and recognitions of our respected Principal and teaching faculties as given below.

Prof. Dr. Hitendra D. Patil, Principal / Head of the Institute as:

1. “Proud Supporter”, YIN- Young Inspirators Network, Sakal Media Group, YIN Summer Youth Summit, 2019.
2. “Proud Maharashtrian”, Divya Marathi, 2019.
3. “Shikshak Sanman 2020”, Divya Marathi, Dainik Bhaskar Group.
4. “Adarsh Shikshak”, Phulora Kaleche Maherghar, 2020.
5. “Shikshak Icon Puraskar”, Amrapali Prakashan, July 2021.
6. “Dhule Bhushan Puraskar 2022 – Visionary Principal of the Year”, Global Scholars’ Foundation.

Dr. S. D. Suryawanshi, Head of Mechanical Engineering Department as:

Awards:

1. In "AVISHKAR" for innovation “Mixed axis water turbine” by Kaviyatri Bahinabai Chaudhari North Maharashtra University Jalgaon, Maharashtra, 2017, “Solar Disinfectant” by Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, 2019.

2. "Gaurav Guruvaryanacha" forwork in teaching learning and research by Divya Marathi (Dainik Bhaskar group), 2021.
3. "I2OR" for Innovative Educator by International Institute of Organised Research (I2OR), 2022.

Patents awarded to Dr. S. D. Suryawanshi:

1. Multipurpose Cooling Apparatus, India, Jan-2021.
2. Multipurpose Hollow Hemispherical Solar Collector, India, Sep-2021.
3. Curved Surface Absorber Type Solar Fluid Heater, India, Oct-2021.
4. Curved Surface Absorber Type Solar Fluid Heater, US, Oct-2021.
5. Curved Surface Absorber Type Solar Fluid Heater, China, Oct-2021.

Dr. Pravin Sahebrao Patil Head Electronics & Tele Communication Engineering Department as;

Awards:

1. "APJ Abdul Kalam Life Time Achievement National Award" in the category Teaching, Research & Publication by International Institute for Social & Economic Reforms, Bangalore, 29-Feb-2020.

Patents:

1. Title of invention: Brailizer-Automated Braille Printer Based on Voice Command., Application type: Ordinary Application, Application Number: 201921022887A, Publication Date: 21/06/2019
2. Title of invention: Deep Learning Based Multi-National Currency Note Identification Kiask for Foreign Exchange Services. Application type: Ordinary Application, Application Number: 201921038679A, Publication Date: 25/10/2019

Dr. Shailendra Kumar Dubey Head Civil Engineering Dept.

Patent:

1. Title of invention: Behaviour and Ultimate Strength of infilled Braced Steel Frame, Application type: Ordinary Application, Application Number: 201621028507, Publication Date: 23/02/2018

Dr. Purushottam Shivdas Desale, Professor in Mechanical Engineering Department as:

Awards:

1. "APJ Abdul Kalam Life Time Achievement National Award" in the category Teaching, Research & Publication by International Institute for Social & Economic Reforms, Bangalore, 29-Feb-2020.

Patents:

1. Applicant Name: Dr. Purushottam Shivdas Desale, Dr. Sanjeev Damodar Suryawanshi, Application type: Ordinary Application, Application Number: 201621015234 (FAR Submitted in 2022)

Dr. Shailesh Shivajirao Deore, Associate Professor Computer Engineering Department as:

1. “APJ Abdul Kalam Life Time Achievement National Award” in the category Teaching, Research & Publication by International Institute for Social & Economic Reforms, Bangalore, 29-Feb-2020.

Prof. Sharad Daga Kachave, Mechanical Engineering Department as:

1. “APJ Abdul Kalam Life Time Achievement National Award” in the category Teaching, Research & Publication by International Institute for Social & Economic Reforms, Bangalore, 29-Feb-2020.

Continuing this legacy of faculty our students have their own achievements which includes award of Patil Mahesh, Final Year Civil Engineering “Experimental investigation of Mechanical properties of self-curing concrete”, in the category Research innovation by Kaviyatri Bahinabai Chaudhari North Maharashtra University Jalgaon, Maharashtra, 30- Dec-2019.

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

3.4.3 Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 20

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

2021-22	2020-21	2019-20	2018-19	2017-18
4	1	3	7	5

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document
Provide Links for any other relevant document to support the claim (if any)	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: 20

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

The maintenance of physical, support and academic facilities have been divided into following sub sections and the responsibility of sections is fixed as explained below. Operation, maintenance and repairs (OMR) of physical facilities such as plumbing, water supply and drainage of institution buildings and boys' and girls' hostels is looked after by an Estate Engineer . He also looks after maintenance of class rooms, laboratories and the college campus. One of the teaching faculty of Civil Engineering Department works as estate engineer. His teaching load is reduced by about 30% of the normal load. Whenever any repair is required, the estate engineer writes an application to the Principal through the concerned head. The Principal sanctions the work and forwards the application to the estate engineer, who gets the work done and submits the bill for payment to the Principal. The accountant pays the bill after sanctioned by the Principal. The OMR of the electrical equipment including fans, lightings, generator, electric supply lines etc. is looked after by estate engineer with the help of two technical assistants / store clerks. Applications of complaints regarding electricity are sent to the estate engineer through Principal who sanctions and forwards the same to the technical assistants. The purchasing, if required for the OMR, is done after taking sanction from the Principal. The OMR of laboratories is carried out by the concerned in-charge and laboratory assistant. The laboratory incharge first obtains sanction for repairing or purchasing of consumable items from the Principal through the concerned head of the department and then gets the work done with the help of the laboratory assistant. A CSR (Consumable Stock Register) is maintained for OMR and purchasing of consumable items such as oils, glass wares etc. At the start of every semester, cleaning and oiling of all machines is carried out. The OMR of library is done by the librarian under the guidance of one faculty incharge of the library such as pest control, book binding etc. The pest control is done every year and book binding is done as per requirement. The OMR of computing equipment of the institution is looked after by the Head of Computer Engineering Department with help of two hardware engineers. Applications are sent to the Head of the Computer Engineering Department for repairing of printers, LCD projectors and maintenance of computers. Maintenance of sport facilities is carried out by a committee appointed by the Principal. The committee consists of the physical director and Estate Engineer.

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

4.1.2 Percentage of expenditure for infrastructure development and augmentation excluding salary

during the last five years

Response: 7.09

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
6	1	22	4	8

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

Institute has central Library with total area of 980.24 sq. meters well ventilated and with very good natural light. Library is open for students and staff from 10.30 am to 5.40 pm from Monday to Friday and on Saturday it is 8.40 am to 1.00 pm. During Exam time it is 7.30 am to 12.00 pm. For smooth running of library, there is one Faculty In-charge appointed by Principal and full time Librarian, clerks and supporting staff.

Total number of titles are 19968 plus 5817 I. S. codes and total number of books are 67172 plus 5817 I. S. codes. Branch wise split up is

- Civil Engineering - 3477 titles and 10812 books
- Electronics Engineering - 4316 titles and 15069 books
- Electronics and Telecommunication Engineering -1316 titles and 5750 books
- Mechanical Engineering - 3540 titles and 10192 books
- Computer Engg - 4718 titles and 12705 books
- Master of Business Administration.-1184 titles and 4918 books

There are also 1107 titles and 6070 e-books subscription. The institute has 66 e-journals subscription. There is a computer section with 5 PC to avail the facility of e-books and e-journals and also the link is shared with students and staff. There is a section in library where the project and seminar reports are kept for students for reference. There is a reference section where separate seating arrangement is made for staff and students. There is a reading room with isolated seating arrangement for students. Library has 310 different competitive exam books, such as Graduate Aptitude Test in Engineering (GATE), Maharashtra Public Service Commission (MPSC), Union Public Service Commission (UPSC), Indian Engineering Services (IES) etc of which there are 1656 books. There is a register at the entry keeping record of the staff and students visiting the Library and they have to sign and put the time of ingoing and outgoing from library. Audit is carried out after every five year by the faculty form different departments appointed by Principal and report is submitted to him along with suggestion.

Books in library have accession numbers based on Dewey Decimal Classification. Books can be searched either by title or by author from catalogue which is maintained in alphabetical order for both title and author. Student has free access to the library by which they can refer any book of their interest. Books issued to staff and students are recorded in the card issued to them. Books can be retained for seven working days for students and for staff book should be renewed after every semester. Institute has purchased library software MVC library book data form company Master Soft Nagpur, which will take care of book record, issuing, receipt, new purchase. Exhibitions are arranged for students and staff for new publications from AICTE and different imminent publishers like TATA McGraw Hill, PHI, Khanna etc.

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 *Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words*

Response:

The Institute's IT infrastructure: An Overview of its Facilities and Features

The Institute boasts of 21 well-equipped computer laboratories that provide students with a comprehensive and immersive learning experience. The laboratories are outfitted with a total of 398 computer systems, including those used by the administration department.

In terms of internet connectivity, the Institute has two internet service providers, Airtel and BSNL, providing bandwidths of 100 mbps and 32 mbps, respectively. The Institute also offers a free Wi-Fi connection powered by Jio, which is accessible to all students and faculty members. To manage the bandwidth distribution, the Institute uses a central manageable switch that connects through a star topology network. Furthermore, the campus is covered by a 12-core optical fibre cable connection, which ensures

seamless connectivity throughout the premises.

To manage the internet connection, the Institute has implemented a SUSE Linux proxy server with fibre, which guarantees high-speed connectivity and uninterrupted service. Additionally, the Institute has Telnet and FTP servers that are used for conducting practical programs, providing students with an opportunity to apply their theoretical knowledge in real-world scenarios.

The computer laboratories are equipped with the latest software, hardware, and other essential tools that enable students to engage in practical learning activities, conduct experiments, and develop their programming skills. The Institute ensures that all the computer systems are up-to-date with the latest software and antivirus programs to prevent any security breaches and protect the privacy of its users.

The laboratories are spacious, well-lit, and air-conditioned, providing a comfortable and conducive environment for learning. The Institute also employs a team of technical support staff who are available on-site to assist students with any technical issues they may encounter.

In conclusion, the Institute's computer laboratories provide students with a state-of-the-art learning environment that is well-equipped with all the necessary facilities and features required to develop their computer skills. With high-speed internet connectivity, advanced software and hardware, and a team of dedicated technical support staff, the Institute is committed to ensuring that its students receive the best possible education and training in the field of computer science.

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: 4.2

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

Response: 380

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document

4.4 Maintenance of Campus Infrastructure

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

Response: 4.4

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
2.45	1.21	5.99	5.91	9.87

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	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 institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 80.38

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1316	1258	1194	1291	1225

File Description	Document
Year-wise list of beneficiary students in each scheme duly signed by the competent authority.	View Document
Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).	View Document
Upload policy document of the HEI for award of scholarship and freeships.	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.1.2 Following capacity development and skills enhancement activities are organised for improving students' capability

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
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	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: 13.16

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
228	311	147	183	160

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

5.1.4 *The institution adopts the following for 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
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof related to Mechanisms for submission of online/offline students' grievances	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Details of statutory/regulatory Committees (to be notified in institutional website also)	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

<p>5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years</p> <p>Response: 40.66</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> <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>255</td> <td>289</td> <td>103</td> <td>113</td> <td>135</td> </tr> </tbody> </table>					2021-22	2020-21	2019-20	2018-19	2017-18	255	289	103	113	135
2021-22	2020-21	2019-20	2018-19	2017-18										
255	289	103	113	135										
<p>5.2.1.2 Number of outgoing students year wise during the last five years</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>415</td> <td>478</td> <td>441</td> <td>438</td> <td>429</td> </tr> </tbody> </table>					2021-22	2020-21	2019-20	2018-19	2017-18	415	478	441	438	429
2021-22	2020-21	2019-20	2018-19	2017-18										
415	478	441	438	429										

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 1.53

5.2.2.1 Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)

2021-22	2020-21	2019-20	2018-19	2017-18
1	4	11	4	0

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	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: 12

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
1	0	2	9	0

File Description	Document
Upload supporting document	View Document
list and links to e-copies of award letters and certificates	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	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: 4.2

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
1	0	6	10	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:**

Our Institution is proud of accomplishments and achievements of our graduates and post graduates. Alumni Association is a non-profit organization. Its purpose is to foster, maintain and support a mutually beneficial relationship between Alumni and Institution. To promote and maintain a lifelong relationship between the members of the College community and its graduates is one of the purposes of the college Alumni Association. The main intention is to strengthen the bond between passed out students and the institution. We function with a vision to create an active alumni network. It also advocates in assisting and enhancing the relationship between the college community and the alumni. We make intentional efforts to facilitate constant interactions with the alumni, to create a healthy and sustainable relationship with the alumni. Efforts are taken to encourage participation of our graduates with the Alumni Association. We also strive to plan events and programs that are of interest to our alumni and we welcome their input. Alumni Association provides an interactive dais, to promote the highest standards of academic education, training, development and continuing education for students and graduates of college. To foster and encourage continuing liaison and good relations between the Association, the College Board, College Foundation Board, students, faculty, staff, administration . In Today's Social media circumference, alumni relations are important part of an institutions advancement activity for many reasons:

- Alumni are institutions most loyal supporters
- Alumni generate invaluable word-of-mouth marketing among their social and professional networks
- By engaging alumni, an institution can continue to benefit from their skills and experience
- Alumni are great role models for current students and are often well placed to offer practical support to students as they start their careers
- Expertise professional exeperience of an alumni adds an affermative value to institutional brand.
- Our alumni are our international ambassadors. They take our brand to their hometowns, countries across the globe.

Maintaining a positive relationship with our alumni means the messages they share about your institution will also be positive and current. Alumni relations are flexible enough to allow an alumnus to maintain a positive link, not only with the office, but also with his former tutor, coach, careers adviser and any number of his peer group. This broader network experience is far more enriching both for the individual alumnus and the institution. By helping the institution become bigger, stronger and more successful, alumni are also enhancing the value of their own educational qualification. Members of the association extend an invitation to alumnae by sharing the values and support, competence and strengths of one another in order to provide direction to move the organization forward. Alumni Association is to create a lifelong and worldwide community of alumni through increased opportunities for meaningful engagement in order to increase awareness, pride, participation, volunteer involvement, and philanthropic commitment to college. Our Alumnus are not only part of past of SSVPS but also valuable asset in our present and will be the golden foot prints for future.

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 institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.*

Response:

The students who are admitted to the Engineering college are very much curious and excited about the atmosphere of the college and the curriculum that they are going to learn during their academic course. Newly admitted students are exposed to the completely new atmosphere and so they are little bit baffled.

So, as per the guidelines of DBATU, in the beginning of every academic year of FY B.Tech. institute has carried three weeks induction program. This induction program begins with registration of every admitted student and consist of student and parents meet with Principal, Academic Dean and Heads of the departments. In these meetings students are acquainted with importance of the technical education as well as rules and regulations of the institute. In the students – teachers' meeting, Principal of the institute and Heads of different departments guide the students and they accentuate mainly on the importance of the various branches of the technical education and their scope in the future. Teachers also guide the students how to surge ahead in the technical education opted by them. Apart from this, teachers also emphasize on various employability skills and techniques to develop it. In this orientation program, students are made aware about the dynamic changes that are taking place in various technological disciplines and how to cope up with the expectations of the corporate world from the budding technocrats.

The lectures of expert and savant speakers are organized by the institute to motivate and guide the students.

The vision and mission statement of the institute aims at developing capable technocrats who will contribute to the society and the nation. So, in align with its vision and mission, institute is always very keen on developing the mindset of the newly admitted students through well composed orientation program as mentioned above.

To inculcate leadership qualities among students, elections for various students association of various departments are conducted. President, general secretary, Training & Placement Coordinator, Alumni Coordinator, Industry - Institute interaction representative are elected in a democratic way. The orientation program conducted by the Applied Science Department of the institute in the month of August 2018 (1st Aug- 21st Aug) stands as an example of well-organized decentralized and participative management activity. In this program, motivational speeches were delivered by renowned speakers such as Mr. Sanjay Patil, Rekha Mundada and Mr. Sagar Garg, Mr. Harshal Patil from well reputed organization Cognizant, also guided the students during this orientation program.

In collaboration with Dr. Babasahed Ambedkar Technical University, a state level project competition "Avishkar" was organized by the institute on 19, Oct 2019. This student centric activity has provided an excellent platform to the students of various disciplines. More than 50 students from different colleges participated in the event. Principal Dr. Hitendra Patil, Dr. Sanjay Khobragade (Coordinator- Dr. Babasahed Ambedkar Technical University) and observer Dr. Ganesh Wankhede were the major dignitaries who

guided and motivated the budding technocrats. Dr. Sanjay Suryawanshi(Head, Mech) Dr.S.K.Dube (Head, Civil) and Heads of other departments and students has contributed significantly to make this event successful.

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

6.2 Strategy Development and Deployment

6.2.1 *The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc*

Response:

The effective and smooth conduct of the institute, the emphasis is given on proper conduct of administrative as well as educational functioning. Institute is governed by the rules and policies of AICTE and Dr. Babasaheb Ambedkar Technological University, Lonere. Appointment of staff and the service rules deployed by the institute are in accordance with recommendation of AICTE and Dr.Babasaheb Technological University. For proper and quality conduct of the institute, the policies suggested by Honorable Chairman and Principal are also implemented by the various department of the institute.

Teaching and learning Evaluation: This is an important aspect for imparting quality education to the students of the institute. Development of curriculum is done from time to time as per suggestions and recommendations of the regulatory bodies such as Governing body, Academic Council, Directorate of Technical Education,AICTE and IQAC. Moreover, Board of Studies of the department also proposes some modification in the curriculum and the proposals are approved by the academic council of the university. Institute gives first priority to the academic calendar of DBATU and accordingly academic calendar is prepared for all the academic activities. Students can easily access the structures and syllabi of different courses from university and institute websites. Institute leaves no stone unturned to complete the syllabus of every course in stipulated time frame and in accordance with the academic calendar. Attempts are made by the university to shift the teaching learning process from teacher centric to student centric. Evaluation of academic performance of each and every student is done in accordance with the guidelines provided by the university. Internal Sessional Examination (ISE) consists of Continuous Assessment (CA) and Mid Semester Examination (MSE) in a semester mode according to curriculum structure. The External Sessional Examination (ESE) is subjective type theory examination based on course syllabus. ESE is conducted in winter and summer semester. Results of these examinations are declared on the website. As the institute is also imparting management education to the students, academic calendar of Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon is followed by the institute and internal assessment of the students is done on the basis of class tests, assignments and project reports at departmental level.

Role of Management:

- Management defines policies and strategies for the institute.
- Management support the institute for its progress by making necessary funds available.
- Through local management committee meetings, management is always in continuous interaction with Principal and other committee members of the institute.
- Motivates staff for overall development of the institute.

Role of Principal:

- To ensure academic growth of the institute
- To assist in planning and implementation of academic programs such as orientation course, seminars and other training program organized by the institute for academic competence of the faculty.
- To ensure the observance of the AICTE / UGC Acts, statutes, ordinance, rules & regulations.

Role of Faculty:

- To prepare teaching - learning activities and execute accordingly.
- Imparting counselling and guidance to the student for their qualitative upliftment
- Organize different extra-curricular and co-curricular activities

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document
Provide Link for Additional information	View Document

6.2.2 Institution implements e-governance in its operations

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

Success of an organization depends on the effective delivery of the performance by each and every employee working in the institute. Hence, periodic assessment of their performance becomes very much necessary. In the institute, performance appraisal of the employees is done on periodic basis through a well-structured performance appraisal system. In case of any lacuna in the performance of an employee, proper guidance is provided to the particular employee to make desired improvement in his / her performance. Good performers are appreciated by the institute authorities and motivated to perform even better.

Employees are backbone of the institute and hence institute is very keen on development and welfare measures of the employees. Institute has always given priority to the welfare of teaching and non-teaching staff. Employees are given facilities such as provident fund, gratuity, study leave, duty leave and maternity leave. Institute is very much concern about consistent up gradation of teaching staff. Teaching staff is always encouraged to attend state, national and international level conferences, seminars and faculty development programs. Moreover, institute also motivates faculty members to pursue higher studies such as Ph.D. Apart from granting duty leave to the teachers, institute also provides monitory fund to the faculty members for attending such up gradation programs. Institute also supports the faculty members of various disciplines to publish their research papers, articles in national and international level publications and referred journals. Faculty members are also motivated to register patents for their unique projects. In case of emergency, teaching and non-teaching employees are provided immediate fund in the form of advance. Certain amount of salary of each staff is deducted as welfare fund. In case of an unfortunate accidental death of any employee of the institute, the welfare fund is given to the family members of that employee. Financial resources of the institute are managed in a very effective and efficient manner and the resources are planned and allocated through well established procedures and processes. Financial audit is done at the end of every financial year as the statutory part of financial assessment.

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: 0.62

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
0	0	1	2	0

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshops and towards membership fee for professional bodies	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

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

Response: 36.65

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

2021-22	2020-21	2019-20	2018-19	2017-18
34	111	92	11	17

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
42	48	48	50	52

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document
Provide Links for any other relevant document to support the claim (if any)	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:

Internal Financial Audit - Financial discipline is the prime concern of the institute and as a part of it, emphasis is given by the college on systematic fund management. Institute has a separate Accounts Department to keep watch on the fund management and resource mobilization and utilization. Internal financial audit facilitates to understand the flow of fund and optimum utilization of fund. Internal audit is conducted by the accounts department in the systematic manner and vouchers such as Cash Expense Vouchers, Cash Received Receipt, Purchase Vouchers and Bank Receipts, Bank account statements and all other financial records are meticulously checked and verified. This responsibility is shouldered by the Accountant of the college. Every financial transaction is recorded by the Accountant in the standard format. The important records such as Students' fees register, Staff salary register, Cash book etc are maintained and updated on daily basis. Precautions are taken by the Accountant while maintaining all

financial records so as to maintain it as per statutory requirements. Expenses under necessary heads are incurred only after ensuring the availability of necessary funds and sanction from proper authorities. Accountant submits the internal audit report to Head of the Institute at the end of every financial year.

External audit is conducted by the Chartered Accountant at the end of every financial year.

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:

The institute Internal Quality Assurance Cell (IQAC) Contribution:

1. Review and implementation of student focused academic and skills development Activities conducted and to be conducted
2. Encouraged activities related to the solution to community problems and corrective measures
3. Sort out the problems and implemented the solution related to Clean, green and polythene free campus of the institution.
4. Encouraged and motivated students for co-curricular activities.
5. Courses are conducted and feedbacks of student are taken to improve placement.
6. Encouraged Research & Development activities through project work to provide the solution to community problems.
7. Started best practice as Running Various Technical Clubs such as Mega ATV, E-vehicle, Energy for future, Artificial Intelligence and Robotics Club in the institute campus. The objectives of the best practice are:
 - To provide platform to the students to apply technical ability to test the concept by practical applications.
 - To develop better understanding of Technical Concept by hands on practice to the students.
 - To provide a holistic personality development.
 - To enhance project management, financial management, team building skills among the students.
 - To enhance interpersonal and communication skills.
 - To improve employability of the students.
8. Taken Initiatives in providing an inclusive environment that is tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and sensitization of students.
9. Events were organized in the institute to create awareness in students and employees about the

constitutional obligations that is values, rights, duties and responsibilities of citizens

10. Preparation and implementation of policy document on green campus
11. In Corona pandemic situation sanitization of complete institute and compulsion of mask to all staff members and students.
12. All precautionary measures are taken to keep employees safe in Corona Pandemic
13. Necessary technical facilities are recommended for online teaching and communication with the student.
14. Training has been arranged for teaching staff about using Zoom / Google Meet, Google Class Room and other tools necessary for online teaching and evaluation process. This training was arranged department wise with head of respective department.
15. Encouraged teaching staff to attend online webinar, FDP, conferences and work shop by circulating related information on institute and departmental social media groups.
16. All class teacher of department instructed to create social media group of students for students. Through this media students are communicated various notices and activities.
17. Social media is also used to communicate the students various online internship programs, online LMS available, online courses available on SWAYAM / NPTEL etc.
18. In Corona Pandemic situation all possible measures has been taken by Internal Quality Assurance Cell (IQAC) to contribute in institutionalizing the quality assurance strategies and processes.

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

6.5.2 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented
2. Academic and Administrative Audit (AAA) and follow-up action taken
3. Collaborative quality initiatives with other institution(s)
4. Participation in NIRF and other recognized rankings
5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.

Response: A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years. Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

Gender equity means males and females have equal opportunities in terms of education, culture and employment. The Institute organizes events for female students of colleges to keep them aware about women opportunities in various branches of Engineering through “NICE” (Nurturing Intelligence for Curious Engineers).

The Institute has taken several measures to enhance safety and security on campuses by installing CCTV cameras & by providing 24 X 7 security. Ladies grievances cell is formed to provide counseling and resolve the grievances.

(A) Safety and Security:

- CCTV cameras are installed in the campus. 24X7 recording is done. Security guards are deployed in campus.
- Separate anti ragging committee for girls is formed having representation of students and faculty from each department. Committee regularly visit to all classes and hostels.
- Separate complaint boxes for girl students are installed at various points. Also separate parking is allotted for girls students.

(B) Counseling:

- Ladies grievances cell is formed. Counseling of girls is done through ladies grievances cell by conducting regular meetings and arranging expert talks.

(C) Common Room:

- Ladies common rooms are provided in B and C buildings with rest rooms, wash rooms and sanitary pad vending machines.
- Ladies common room with sanitary pad vending machine is available in Ladies hostel.

Ladies Grievances cell organizes various events for students,

Sr. No.	Academic Year	Title of the programme	Period from	Period To	No. Participants
1	2017-18	1. Poster presentation on Women and technology	28-09-2017	28-09-2017	24
		2. Lecture on women health by Dr. AmitaPatil	08-03-2018	08-03-2018	125

2	2018-19	1. Counselling by NGO member to FE girls.	19-08-2018	19-08-2018	80
		2. Lecture on today's youth challenges by Raginee Chandratre	19-09-2018	19-09-2018	92
		3. Entrepreneurship Development program by Er. Santosh Birari and Er. Sangram Limaye.	28-09-2018	28-09-2018	133
3	2021-22	1. Lecture regarding women safety laws	05-03-2022	05-03-2022	70
		2. Mahila Cancer Mukti Abhiyan for faculty members	09-04-2022	09-04-2022	15
4	2022-23	1. Self protection training for FYBTech and FYMBA students	13-07-2022	13-07-2022	33
		2. Mata Surakshit tar Ghar Surakshit by Dr. Tushar Bhatt and Dr. Shinde	19-10-2022	19-10-2022	170

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

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
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document
Bills for the purchase of equipment's for the facilities created under this metric	View Document
Provide Links for any other relevant document to support the claim (if any)	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: C. Any 2 of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Provide Links for any other relevant document to support the claim (if any)	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 and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Institution provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Different sports and cultural activities like Spandan, various days celebrations are organized inside the institute to promote harmony towards each other.

Women's day, Yoga day, Teachers Day, Engineers Day, Constitutional Day etc. and regional festivals like Shiv Jayanti, Ganesh festival, Holi, Dipawali, Navratri, Shahid Day, Kargil Vijay Day, International Reading Day and Shiv Swarajya day are celebrated in the institute campus. This establishes positive interaction among people of different religions and cultural backgrounds. There are different grievance redressal cells in the institute like Student Grievance cell, Ladies Grievance cell, Staff Grievance cell which resolve grievances.

Institute has code of ethics for students and a separate code of ethics for faculties and employees which has to be followed by each one of them irrespective of their cultural, regional, linguistic, communal, socioeconomic and other diversities.

List of days celebrated:

Women Day	International Yoga Day
Independence Day	Teachers Day
Engineers Day	Gandhi Jayanti
National Unity Day – Sardar Patel Jayanti	Samvidhan Diwas
Republic Day	Chhatrapati Shivaji Jayanti
Dr. Babasaheb Ambedkar Jayanti	Maharashtra Day

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 No. 1

1. Title of the Practice:

Organizing National Level Technical Event (IMPULSE, Technofest, NICE, PATW etc.)

2. Objectives of the Practice:

- The objective of the event is to bring the students of various streams from different institutes on a common platform where they are encouraged to share knowledge and innovative ideas.
- To exhibit the talents and skills of the future Engineers, both in Technical and Non-Technical themes organized in the events.
- To develop leadership qualities, organizing skills, project management skills and interpersonal skills in the student's.
- To explore about student's hidden potentials through various competitions
- To make students feel confident to face the present and future challenges.

3. The Context:

National level technical events organized by various student's associations of Institute under the guidance of faculty members during academic year. Students from all over India participates in various competitions (Mechtrix, Paper Presentation, Technical Quiz, Poster Presentation etc.)

4. The Practice:

IMPULSE & TECHNOFEST - Under these about 20 events of competitions are organized and students from various colleges are participated. Events are:

- Mechtrix- Waste to Best
- Paper presentation - Reach out to world
- Robo War - May the best machine win
- Optical Archery - Hitting the bulls eye
- Tech Quize - Test your limits
- Blind coding - Coding makes the fun
- CAD War - Design optimization
- Bridge Making - Connect the world
- Link Ladder - Build to win
- Box Cricket - Game for fun
- Game of Thrones - The wars to come
- Treasure Hunt - Search to win
- Buoyancy - Rise above
- Market King - Make your empire
- CANVAS - Showcasing cutting edge issues
- Shark Tank - The start up battle
- Race to Distiny - Be the winner
- Brick Race - Get your senses together
- Baloon Blast - Game of fun
- Hydro Launch - Only crazy thinkers can win
- Brain Olympics - Think smart play smart
- Kaun Banega Champion - A champion will rise
- Smack Down - Pin to win
- Twist and Tricks - Quicker picker upper
- Logica - Test your brain

NICE (Nurturing Intelligence in Curious Engineers) - Institute host North Maharashtra University (NMU) region competition. Every year teams from NMU region participate and two winning teams are qualified

for western region competition. Councelling of students of Junior colleges in 'Khandesh' region is done by participating teams of NICE for career oppurtunities in Engineering education. The objective of the event is to align the students in the respective branch they select. This will motivate students to carry out research and innovation while studying Engineering and also orient their mind to gain insight into meaningful technocrats.

IET-PATW (Institution of Engineering & Technology - Present Around The World) This is a technical paper presentation competition organized at university level and winner of this event participate in regional level competition. This event aims to provide platform to the passionate students from educational institutions present their ideas.

5. Evidence of success

The success of students in academics and placements reflect after the participation in these type of events. Project management, presentation, innovation and technical abilities are enhanced amongst the students. Students take admission on the basis of their interest so that after completion of course, the society gets quality Engineers.

6. Problems encountered and resources required

These events are organized during academic year in a compact schedule of teaching and learning. Therefore, some of the students are reluctant to participate. Dhule is growing city, but it is difficult to find sponsors for these events. Therefore, total financial burden is to be borne by Institute.

Best practice No. 2

1. Title of the Practice:

Running Various Technical Clubs. (Mega ATV, E-vehicle, Energy for future, Robotics Club)

2. Objectives of the Practice:

- To provide platform to the students to apply technical ability to test the concept by practical applications.
- To develop better understanding of Technical Concept by hands on practice to the students.
- To provide a holistic personality development.
- To enhance project management, financial management, team building skills among the students.
- To enhance interpersonal and communication skills.
- To improve employability of the students.
- To encourage patent filling amongs faculty and students
- To inculcate innovative approach in institution
- To enhance the research culture

3. The Context:

Technical Clubs formed by individual departments to provide platform for the students to validate and apply their concepts in practical application. It provides place to the students for introduction of concept and understanding for innovation.

4. The Practice:

MEGA - ATV Club: Students from various departments voluntarily join this club and contribute to design, development and manufacturing of racing car. This manufactured car participates in Mega - ATV competition held every year. Mega - ATV is National levels inter collegiate Engineering Design Competition for UG students, organized by "Auto Sports India". In this competition, vehicle undergoes for vehicle technical inspection, car completion for testing drag, flat dirt and endurance.

E-Vehicle club: Objective to form this club is to develop energy efficient E-bike, which will give students opportunity to enhance their innovative skills.

Energy for future: Objective of this club is to develop projects on renewable energy. The students of this club participated in various paper and project presentations. Many projects are developed in this club and patented jointly with faculty and students.

Robotics Club: Objective of this club is to enhance creative thinking about hardware and software programming skill, like Embedded Systems, Internet of Things, Artificial Intelligence and Machine Learning. Students from all departments join this group voluntarily to realize their passion as a team work.

5. Evidence of success

The success of Technical clubs' members reflect by winning prizes in various paper and project presentation competitions. Patents are also filed on the basis of projects developed by these clubs. Project management, presentation, innovation and technical abilities are enhanced amongst the students and faculties.

6. Problem encountered and resource required

Membership of these clubs is voluntary. Therefore, all students do not participate. Financial burden is jointly beared by Institute and members of the club. Therefore, large scale innovation projects, which need huge amount of funds cannot be taken.

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:

Mission of the Institute is “To develop Technocrats with Awareness of Socio economic needs for sustainable growth”. To achieve this mission, Institute is continuously working for sustainable development and produce the engineers with socio economic values. To serve the nation through implementing the technical advancement in the social projects, has always been on the priority list for the institute. Institute emphasizes on educating professional students by providing value based education and enabling the students to face challenges in the future.

To achieve the mission of the Institute, Institute provides resources, infrastructure and opportunity to the students. This is the most distinctive features, whose details are given below in brief.

Technical development:

The institute, implements Dr. Babasaheb Ambedkar Technological University curriculum through well planned and effective teaching learning method. Various measures have been implemented to take care of the needs of students. Organizing expert lectures, seminars and workshops to provide exposure to the students throughout the academic. Local guardian scheme is implemented by the Institute to provide counselling for the students. The institute provide various platforms in the form of technical clubs to provide opportunity to implement innovative ideas into various products. The students are facilitated to work on relevant problem related to society, industry through projects like minor and major projects. Students are exposed to work environment through regular industrial visits. Students undergoes industrial training or internships to enhance their technical knowledge and skills. Learning this way will boost team work, communication skills as the student work together to solve problems and help each other to reach their goals. In technical clubs’ skill based learning makes them think logically, analyze the concepts and apply their insight. The institute also organizes various programs for providing hands-on training to the students of latest technology adopted by the industry. Students are also motivated to reach out to the industry for various industrial projects. The technical events and project presentations are organized by the Institute to develop interpersonal skills, innovations, sharing of technical knowledge, presentation skills and leadership qualities among students.

Faculty and staff members are motivated to upgrade their knowledge and skills by participating in various workshops, seminars and Faculty Development Programs (FDP) organized by various Institute, Universities and AICTE.

Social development:

Exposure to social issues and working on probable solutions are carried out by students through community projects. The students are exposed to the diverse social structure and their issues, particularly in the neighboring areas. Institute organizes various calendar events in every academic year as:

- Career counseling for Engineering aspirants
- Blood donation camp
- Student Induction Program
- Tree plantation
- Swachha Bharat Abhiyaan / Swachha Maharashtra Abhiyaan
- Road Safety Awareness
- HIV and AIDS awareness program
- Beti Bachav Beti Padhav
- National Voter's day under ELC

- Anti Corruption awareness week
- YIN (Youth Inspiration Network) in association with SAKAL news paper group.
- 'Shodh Udyojaktecha' (Saturday club Global Trust Dhule Chapter) under the flag of 'Atma Nirbhar Bharat'.

The students take part in helping the under privileged part of the society by organizing visit to the oldage home, blind school, dumb and deaf students school and Laprosy Aashram. Institute has organized rock show “Wings of Fire” as a charity event for Kerala Flood Relief fund in year 2018..

The institute has empanelled under UMA (Unnat Maharashtra Abhiyan) and UBA (Unnat Bharat Abhiyan). To serve the society, Department of Civil Engineering of the institute had been involved in the Design, Analysis and Managing water resources and peripheral projects catering the need of villagers and local authorities. Institute have been involved in Design of Village water supply schemes of more than hundred villages. The program objective is to provide appropriate technology solution to the Industry. Designing the 'Rural Water Supply' scheme fulfills the objective by providing the detailed solutions to the drinking water problem of the villagers. The Institute has been appointed as a third party inspection authority for checking works of soil and water conservation carried out by Non Government Organization (NGO) for Dhule district. Department of Civil Engineering carry out structural audit of Sevice Reserviors of drinking water and buildings. Third party inspection of water filtration plant and soak pit of various villages for 'Zilha Parishad' is carried out by Civil Engineering Department.

Physical development:

To achieve Institute mission students should be aware of technical and social needs along with physical fitness. To achieve physical fitness, the Institute promotes physical activities among the students. Institute has well equiped gymkhana. The institute celebrates international Yoga Day every year. Students are encouraged to participate in various sport events organized by university and institution.

Cultural development:

To enhance personal, team building, time management, creativity, communication and presentation skills Institute provides platform to the students by organizing cultural events 'Spandan' and Days' Celebration. This help the students to know themselves better in terms of their interest, ability, aptitude and opportunity. This encourages and develops extra curricular abilities and right approach amongst the students.

Research and Development:

Institute have university approved research laboratory. Many research projects have been conducted to solve industrial and social problems. In North Maharashtra region, hot weather conditions and sun shines are available nearly throughout the year. Considering the same, Mechanical Engineering Department of Institute focuses on research in the field of Solar Energy. Many projects of designing, manufacturing and testing of solar cookers and concentrators are carried out by the department. Micro Hydro Electricity generation project is installed at Akkalpada Dam, Dhule district. The project is sponsored by DPC (District Planning Commission) under collector of district Dhule. Institute is having 13 Ph.D. faculties and 18 faculties are persuing Ph.D. Total 44 students are registered as Ph.D scholars and persuing under 07 recognized Ph.D. Guides of the institute. The outcome of research activities reflects in reaserch publications in National and International Journals, Conferences and Intellectual Property Rights.

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

5. CONCLUSION

Additional Information :

Institution offers UG Programs in Electronics Engineering, Mechanical Engineering, Civil Engineering, Computer Engineering and Electronics and Telecommunication Engineering.

The Institute runs MBA and two PG programs in engineering - Civil Engineering (Infrastructure Engineering and Management) and Computer Engineering.

The PG programs in Mechanical Engineering, Electronics Engineering, Civil Engineering (Building Science and Technology) were in force till 2016-17. From 2017-18, these PG programs have been closed.

In moving towards the outcome based approach in the teaching-learning-evaluation process, every program in the institution has formulated a set Program Educational Objectives (PEOs). Apart from this, a set of Course objectives & Outcomes (CO-COs) have been framed for each course. The academic calendar is planned well in advance. The regular classes are complimented with tutorial classes, special classes for students with arrears, and repeat classes for slow learners.

Concluding Remarks :

The institute functions through various committees such as College Executive Committee, Local Management Council, Head Council etc. In the organization structure, liberty is given to the heads of the departments to take the decisions for the better functioning of their respective department. Periodical review meetings are conducted by Principal of the institute to seek feedback about functioning of every department. However, some major decisions as regard to academic or extracurricular activities are taken by the approval of the Chairman and Principal of the institute. Various activities are conducted at departmental level in order to explore the hidden potential of the students.

Ceaseless efforts are taken by the Chairman to guide Principal and faculty members to formulate various plans for the progress of the institute. Institute is governed through the able and experienced leadership of Chairman. Under his valuable guidance, the Head Council, headed by the Principal of the institute and consists of heads of departments, frames policies and plans for the smooth conduct of academics and administration. Plans and policies, aligned with vision and mission of the institute, are implemented at the departmental level in decentralized manner. The governance of the institute becomes student centric because of Academic council which monitors the conduct of academic activities on regular basis and provides its valuable guidance to the faculty members if required. Such focused governance system concentrates on consistent growth of the institute.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.4.1	<p><i>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</i></p> <p>Answer before DVV Verification : A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website Answer After DVV Verification: B. Feedback collected, analysed and action has been taken and communicated to the relevant bodies Remark : As per data provided by HEI</p>																				
5.3.2	<p>Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)</p> <p>5.3.2.1. Number of sports and cultural programs in which students of the Institution participated 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>1</td> <td>0</td> <td>41</td> <td>76</td> <td>4</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>1</td> <td>0</td> <td>6</td> <td>10</td> <td>4</td> </tr> </tbody> </table> <p>Remark : Multiple events held on same date to be considered as one as per data provided by HEI</p>	2021-22	2020-21	2019-20	2018-19	2017-18	1	0	41	76	4	2021-22	2020-21	2019-20	2018-19	2017-18	1	0	6	10	4
2021-22	2020-21	2019-20	2018-19	2017-18																	
1	0	41	76	4																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
1	0	6	10	4																	
6.2.2	<p><i>Institution implements e-governance in its operations</i></p> <ol style="list-style-type: none"> 1. Administration 2. Finance and Accounts 3. Student Admission and Support 4. Examination <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above Remark : Considering HEI input</p>																				
6.5.2	<p>Quality assurance initiatives of the institution include:</p> <ol style="list-style-type: none"> 1. Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented 2. Academic and Administrative Audit (AAA) and follow-up action taken 																				

	<p>3. Collaborative quality initiatives with other institution(s) 4. Participation in NIRF and other recognized rankings 5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.</p> <p>Answer before DVV Verification : A. Any 4 or more of the above Answer After DVV Verification: A. Any 4 or more of the above Remark : Considering HEI input</p>
7.1.3	<p>Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following</p> <p>1. Green audit / Environment audit 2. Energy audit 3. Clean and green campus initiatives 4. Beyond the campus environmental promotion activities</p> <p>Answer before DVV Verification : C. Any 2 of the above Answer After DVV Verification: C. Any 2 of the above Remark : Considering HEI input</p>

2.Extended Profile Deviations

ID	Extended Questions
1.1	<p>Number of teaching staff / full time teachers during the last five years (Without repeat count): Answer before DVV Verification : 86 Answer after DVV Verification : 137</p>