

SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

NANASAHEB MAHADIK COLLEGE OF ENGINEERING

GAT NO. 894/2665 PUNE-BANGALORE (NH4) HIGHWAY, AT POST- PETH
NAKA, TAL- WALWA, DIST- SANGLI PIN-415407
415407

www.nmcoe.org.in

SSR SUBMITTED DATE: 30-10-2018

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

October 2018

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Nanasaheb Mahadik College of Engineering (NMCOE) was established in 2011 under the able leadership of Vanashree Shri. Nanasaheb Mahadik and his son Shri. Rahul (DADA) Mahadik, Secretary of the "Shri Venkateshwara Shikshan Sanstha, Peth". The institution is the realization of the vision of our leader Vanashree Nanasaheb Mahadik to provide quality engineering education to students from the rural area. The college is recognized by AICTE, New Delhi and affiliated to Shivaji University, Kolhapur; and Dr. Babasaheb Ambedkar Technological University, Lonere (For First & Second Year Engineering) and managed by Shri. Venkateshwara Shikshan Sanstha (SVSS); Pethnaka.

The institute has received Quality Management Certificate from ISO 9001:2008. The institute is located in Peth Naka Pune-Bangalore (NH4) Highway. During the last few years the institute is progressing vertically in the field of technical education and emerging as developing institutes in the region. Institute is having qualified and experienced staff for all the programs, good laboratories, library and Internet infrastructure; sufficient enough for carrying out the program curriculum in an efficient manner. Till date four batches have been passed, with alumni strength of more than eight hundred students. Our alumni are working in various reputed industries and some of them have started working as entrepreneur.

By considering the long sighted educational vision of the management, it gives a sense of direction to the development of the institute. Applying for NAAC accreditation is an effort towards bringing continuous quality enhancement at NMCOE. The college under the leadership of our Chairman, Secretary and Principal has formed an Internal Quality Assurance Cell (IQAC) and has evolved various quality systems. The preparations of this Self Study Report (SSR) of institute have put a light on the strengths and weaknesses of the institution. This introspection has helped NMCOE to build on its strengths. We, the NMCOE family, the Students, the Teaching and Non-Teaching Staff, other Stake Holders and the Management of institute are working together to live up to our motto Perfectly, Preciously and Efficiently.

Vision

To develop a student into a graduate engineer with an attitude towards research and development.

Mission

To impart quality education by continually changing academic contents.

To enhance career opportunities for students through exposure to industry.

To develop student by encouraging creativity, adaptability to apply know-how and thinking.

To inculcate sensitivity toward society and preserve environment.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Spacious campus with well-developed infrastructural facilities and conducive atmosphere for academic development.

Centrally located from cities like Satara, Kolhapur and Sangli.

Effective teaching learning methodology.

A pool of dedicated, well qualified and competent faculty committed to overall development of the institute.

Excellent library facility

Wi-Fi connectivity throughout the campus.

Good Industry-Institute Interaction.

Well established training and placement cell.

Well established student association to conduct extracurricular activities.

Excellent sports and gymkhana facilities.

Organization of Annual Social Gathering; a platform to exhibit individual talents.

Institutional Weakness

Scarcity of Ph.D. qualified faculty.

Lack of Research laboratories and Consultancy activities.

Presence of Government, Aided and Autonomus institutes in the region surrounding the institute

Institutional Opportunity

Motivating students to prepare for GATE, MPSC, UPSC and other competitive examinations.

Contribution of alumni to improve academic and students placements.

Motivating faculty to upgrade higher education.

Motivating students for pursuing higher studies.

Institutional Challenge

To improve academic results.

Willingness of entry level students towards engineering and its effect on intake quality and quantity.

To increase admissions.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institute is affiliated to Shivaji University, Kolhapur and DBATU, Lonere. Institute follows the academic curriculum as designed by the University. Subject allocation to faculty is based on their specialization, performance and experience. Institute academic calendar is given to every faculty and accordingly faculty prepares lecture plan, practical plan and implement them. Whenever BoS meetings are arranged for curriculum developments; our faculty member participates and gives their suggestions regarding curriculum development. The lectures and practicals are conducted as per University syllabus structure. In addition to it, we conduct seminars and guest lectures by expert faculties to gain additional knowledge about the subject. First year and second year engineering is affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere which has adopted Choice Based Credit System in its syllabus. At final year of the program, the students have choice to select the elective course as per their area of interest. For curricular enhancement, some programs are arranged by institute regarding gender, environment, human values etc. Also various value-added courses are organized by institute. For bridging the gap between industry and academic; vocational/field training, sponsored projects for last year students etc. are carried out by the institute. Students are motivated to work on industrial problems through industry sponsored projects. Institute has developed online feedback system for analyzing performance of teachers in teaching activity. The feedback is taken twice in a semester and the review is taken individually with Principal and Head of the department, and the suggestions for the improvement are given. Institute also collects feedback from Alumni, Parents and Teachers and according to feedback proper actions are taken for improvements in curricular activities.

Teaching-learning and Evaluation

The admissions in our institute are carried through centralized process based on the state and national level entrance examinations and is regulated by Maharashtra state government. The students from all categories are admitted in the institute as per the prevailing norms. The teachers adopt different teaching methods through activities, competitions and events. The academics and industry collaboration is done through internships, industry sponsored projects and field visits etc. Institute organizes training courses, workshops, and programs on Career development, Personality development, Aptitude, IPR etc. in collaboration with experts for value addition. The teaching faculty uses various ICT tools for increasing effectiveness of teaching-learning. The necessary resources are provided to students through library and digital resources such as Videos,

E-books etc. The teachers; assigned as mentors guide students in academic and other issues. The institute helps students in improving the soft skills and conducts special sessions through training placement cell and in collaboration with experts. The methods of student evaluation have evolved over time with due weightage to regularity, sincerity, timely completion and performance in laboratory sessions, mid -semester examinations etc. The college administration; in coordination with teaching and nonteaching staff members, work towards timely execution of different activities and addressing related grievances. Institute has defined POs, COs and PEOs for all the programs and courses; which are displayed on the website and communicated to all. The institute has developed mechanism to measure attainment of COs and POs from the previous academic year.

Research, Innovations and Extension

Faculties and Students are encouraged and guided to participate in seminars and conferences. Part of the registration fee for conferences, various workshops are reimbursed by the institute and duty leaves are sanctioned to the faculty members. Students are encouraged to carry out their project work with the application of scientific research methodology. The students are encouraged to participate in different competitions/events such as tech-fest, science fair, technical paper presentation, and project competition. The institute also organizes workshops and seminars to create awareness among the students and to provide a platform to meet the distinguished experts in the related area. The students and faculties have published their papers in national/international conferences/journals. Some students have won prizes in various technical competitions at national level. The institute organizes curricular and extracurricular activities for students. Institute has created student organizations in every department through which they carry out various technical and cultural activities. Our Institute is member of Indian Society for Technical Education (ISTE) and institute encourages faculties and students to become member of various technical associations. Institute organizes industrial visits beyond curriculum for additional learning experience. Institute has facility of 45 Mbps internet connectivity to all computers, as well as 24 X 7 Wi-Fi connectivity through the campus. The institute has more than forty national and international journals, Periodicals and more than hundred E-Journals ,E-Resources like DELNET for the fulfillment of research activities. The institute is also a member of NDL and NPTEL through which online books, notes, audio and video lectures are available for students and faculties for academic and research work. Institute conducts seminars for students on skill development. Institute has signed MOU's with different industries and consistently arranging different programmes in association with them. Institute has an active NSS cell through which students and faculties carry out different activities as a part of their social responsibility.

Infrastructure and Learning Resources

The institute has all the necessary infrastructural facilities which are as per the norms of the regulating body. The Institute infrastructure has created a very good ambience for teaching-learning process. All the classrooms, seminar halls and conference rooms are provided with necessary ICT support. All departments have established well equipped laboratories. Institute motivates the students to participate in extracurricular and co-curricular activities. College has facility of Hockey ground, Kho-Kho, Kabadi, Volley Ball court, gymnasium and adequate sports equipments to conduct various sport events. Annual sports and cultural events are conducted every year. Many students have bagged awards in sports and cultural events. The central library is fully equipped with all the necessary requirements. The institute has started a new initiative of Book Bank Scheme for meritorious students. Under this scheme student are provided with all the books throughout the semester. The Library facilities include LMS, periodical display, spacious reading hall, Newspaper section etc. The institute has good IT facilities such as computers, local area network, internet connectivity, operating systems,

application software's, CCTV surveillance etc. that are updated regularly. The institute has a well-defined policy for the maintenance of physical and academic facilities with delegation of the work among the staff members and through a collaborative approach. The maintenance of internet facility, installation and up gradation of software' is taken care by the lab assistants and system administrator of Computer departments. Some of the repair and maintenance work is outsourced if needed. The institute emphasizes on utilizing the expertise and resources available in-house for the maintenance of the physical, academic and other support facilities.

Student Support and Progression

The Institute always encourages students by providing scholarships and freeships from government. The students with excellent academic performance have been awarded with the Institute's academic award/scholarships. Institute organizes various guest lecturers on subjects like Competitive Examinations, Career Counseling, Soft Skill Development, Remedial Coaching, Bridge Courses, Yoga & Meditation and Personal counseling to enhance capability of students. Institute has training and placement cell which facilitates student's for progression to higher education and towards employment through various activities. T&P cell organizes various training programs on soft skill development, personality development, skill development, maintaining student record and participation in industry initiated HR and TPO meets. Institute has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging incidences. Institute always motivate students to be part of cultural and co-curricular activities. The institute has student council as per the Shivaji University norms. Student representatives from each class, NSS coordinator, sport coordinator, cultural coordinator etc. are members of this committee. We have organized annual sports and cultural festival, NSS, technical and non technical events etc. Under this; NSS has organized activities like social service camp, International Yoga Day etc. Institute provide gymnasium facility to students and staff. Institute has established cultural cell "Kalasarathi" for organizing various cultural activities, motivating student to participate in inter, intra college & university programs. Institute has a registered Alumni Association Chapter. We invite alumni to talk with current student to understand the actual needs and demands of industries. Alumni share their experience for the betterment of the existing student.

Governance, Leadership and Management

The institutional vision is to develop a student into graduate engineer with an attitude towards research and development. Institute has a quality policy ensuring to its vision and mission. There is a network system of coordinative mechanisms for the successful conduct of the institute activities. The strategic planning and decision making is done by the governing body and the local management committee. The institute has established various committees to deal with different issues related to students, parents and society. The principal with the heads of the department, discuss the needs, snags and suggestions to improve educational quality. The institute has established Internal Quality Assurance Cell (IQAC) for improving academic and administrative performance of the institute and creating awareness about quality culture. The quality policy has reviewed through internal audits and feedback from stakeholders through IQAC. The institute has stated welfare measures for teaching and non-teaching staffs and it motivates the staff members for attending workshops and seminars by providing financial aid. Duty leaves are also provided for this purpose. The institute organizes different programs for teaching and non-teaching staff for their professional development. The institute has faculty appraisal system for improving performance of the staff. It also assists the management to analyze the competence of the staff. The institute mobilizes its funds in an effective manner.

Institutional Values and Best Practices

The institute has environmental consciousness and is implementing energy conservation systems in campus. Institute is taking initiative to mold a student into a graduate engineer by supporting financially and technically. The College has established Internal Complaint Committee to promote gender equality. The institute has conducted many awareness programs to bring gender equality among students. The institute is committed to adopt environment friendly policies by tree plantation, waste management and use of renewable energy resources. As a part of green practices, the institute has planted trees and plants at various locations. Institute is allocating budget for green initiatives every year. The institute has implemented energy conservation practices such as solar water heater, LED lightning system. The institute is taking initiatives to engage with and contribute to local community through programs such as Matru Melava, Blood donation camp, State and District level science exhibition, donation to NAAM foundation etc. The institute functions as per the professional code prescribed by the statutory bodies i.e. AICTE, DTE and the University and maintain transparency in financial, academic and administrative processes. As best practices, Institute is providing financial support to meritorious as well as needy student to excel their academic performance.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	NANASAHEB MAHADIK COLLEGE OF ENGINEERING
Address	Gat No. 894/2665 Pune-Bangalore (NH4) Highway, At Post- Peth Naka, Tal- Walwa, Dist- Sangli Pin-415407
City	Peth Naka Islampur
State	Maharashtra
Pin	415407
Website	www.nmcoe.org.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
IQAC Coordinator	PATIL MAHESH ANANDRA O	-	9822289312	-	iqac@nmcoe.org.in
Principal	TAMBOLI J. A.	02342-252100	9604856750	02342-252110	contact@nmcoe.org.in

Status of the Institution	
Institution Status	Self Financing and Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details				
Date of establishment of the college		03-08-2011		
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name	Document		
Maharashtra	Dr. Babasaheb Ambedkar Technological University	View Document		
Maharashtra	Shivaji 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	10-04-2018	12	AICTE Approval for Current academic year

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

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	Gat No. 894/2665 Pune-Bangalore (NH4) Highway, At Post- Peth Naka, Tal-Walwa, Dist- Sangli Pin-415407	Rural	11.33	13483.59

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,Engineering And Technology	48	HSC MHCET JEE	English	90	20
UG	BTech,Engineering And Technology	48	HSC MHCET JEE	English	45	23
UG	BTech,Engineering And Technology	48	HSC MHCET JEE	English	45	19
UG	BTech,Engineering And Technology	48	HSC MHCET JEE	English	45	22
UG	BTech,Engineering And Technology	48	HSC MHCET JEE	English	45	16

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	7				16				62			
Recruited	0	0	0	0	0	0	0	0	10	2	0	12
Yet to Recruit	7				16				50			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				52			
Recruited	0	0	0	0	0	0	0	0	34	18	0	52
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						35
Recruited	33		2		0	35
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				15
Recruited	14	1	0	15
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.	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	10	2	0	12

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	1	0	1
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	26	17	0	43

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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
		UG	Male	59	0	0
	Female	43	0	0	0	43
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	36	31	36	18
	Female	16	16	13	9
	Others	0	0	0	0
ST	Male	1	0	1	0
	Female	1	0	1	0
	Others	0	0	0	0
OBC	Male	82	83	78	63
	Female	32	43	32	27
	Others	0	0	0	0
General	Male	564	603	644	471
	Female	269	285	232	228
	Others	0	0	0	0
Others	Male	45	53	53	41
	Female	24	20	14	10
	Others	0	0	0	0
Total		1070	1134	1104	867

3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 743

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	5	5	5	5

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1070	1134	1104	867	605

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
765	848	900	810	570

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of outgoing / final year students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
310	334	230	79	1

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

Number of full time teachers year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
69	67	64	55	48

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
102	113	120	108	76

File Description	Document
Institutional Data in Prescribed Format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 21

Number of computers

Response: 191

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
269.9313	319.2008	385.0342	356.2264	273.567

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

The institute is affiliated to Shivaji University, Kolhapur (for Third and Fourth Year) and Dr. Babasaheb Ambedkar Technological University, Lonere (for First and Second year engineering). Institute follows the academic curriculum as designed by these universities. In the beginning of each semester academic calendar based on the university schedule is prepared and given to each staff members to adhere and implement the same and put up on the notice board for student's information. The steps followed for the effective curriculum delivery are as follows:-

At the beginning of the semester following activities are carried out:

1. Required faculty members are appointed looking at the strength and the need to carry out the teaching load.
2. Load distribution of teachers load before the beginning of the semester.
3. Academic calendar is prepared.
4. Lecture plan is prepared by staff.
5. Practical plan is prepared by staff.
6. Preparation of notes/PPTs and the other allied material suitable for the subject as desired by the faculty members.

During semester following activities are carried out:

1. As per the time table lectures and practical are conducted.
2. In the weekly meeting of Principal and Heads of departments, planning is made according to the syllabus completion and lagging part of the academic calendar, if any.
3. Midterm exam is conducted to analyze the students.
4. Feedback is taken from the students.
5. Extra lectures are conducted by experts/adjunct faculties.
6. Industrial visits are organized for students.

At the end of semester following activities are carried.

1. Academic Audit and Feedback:

The semester examinations are conducted as per university schedule and after declaration of University results, analysis is carried out and academic audit meeting is arranged once in a semester, with all members to discuss various reasons, particularly for those subjects where results are not satisfactory. The appropriate decisions are made regarding the improvement of results such as arrangement of extra lectures, inviting expert faculty from the adjoining colleges, solving question papers etc. Students feedback is

taken two times in a semester online and discussed individually with Principal and Head. Instructions are given to staff members having low feedback to improve their performance.

2. Mentoring:

Each faculty member is assigned a group of students (15-20) for mentoring every year. The faculty mentors conduct meeting with the students and record their data, maintain records of student's activities other than academic, letting know their personal difficulties, suggestions for solution of difficulties for stress removal.

3. Teaching Pedagogy:

For implementing effective teaching-learning process various methods other than chalk-board like video lectures, guest lectures, industrial visits are adopted. This process helps the students to learn the curriculum effectively.

4. Action Plan:

Following action plans are implemented

- Curriculum prescribed by the university is followed.
- Subject to faculty is allocated based on their specialization, performance and experience.
- Institute academic calendar is given to every faculty.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 9

1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	2	1	3	0

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Details of the certificate/Diploma programs	View Document
Any additional information	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 42.9

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	6	4	6	4

File Description	Document
Details of participation of teachers in various bodies	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 0

1.2.1.1 How many new courses are introduced within the last five years

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Details of the new courses introduced	View Document
Any additional information	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 5

File Description	Document
Name of the programs in which CBCS is implemented	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 31.73

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
743	658	213	103	0

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Gender:

- Institute is providing safe and tension free atmosphere to the girl students as well as ladies faculty. "Internal Complaints Committee" is established for resolving internal complaints of students. Prevention of sexual harassment in the workplace requires awareness. The institute has formed committee, which addresses such topics as the national laws that prohibit sexual harassment; creating workplace policies and steps that individual can take.
- Institute organizes certain program like Matrumelava (Mother's meeting), Gauri Mahotsav for

ladies faculties and students in institute, women empowerment program, women's day celebration.

Environment & Sustainability:

- Environmental study is a common course for all second year students as per the curriculum. In this course, the basic components of environment, their application in various fields are studied. Students perform mini projects in this course. The Institute has appointed separate faculty to conduct this course.
- The institute is affiliated to Dr. Babasaheb Ambedkar Technological university, Lonere; there is subject of Energy & Environment Engineering compulsory for all branch students.
- Institute is organizing programs of tree plantation in which trees are planted in institute campus or nearby villages. Institute has developed one project of Biogas near college canteen.

Human Values & Professional Ethics:

- The institute is affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere; for second year Basic Human Rights subject is added in syllabus which is compulsory subject for all the students.
- For third year students there is a compulsory subject included on Professional Skill Development.
- Anti Ragging committee is also effectively working in the institute. The Institute has formed anti-ragging committee comprising of mixed gender. Boards containing list of anti-ragging committee members are displayed in the institute. While admitting students to college, anti ragging undertaking from student and parent is taken.
- Institute organizes different programs like Yoga week, Blood Donation Camp, Passport Registration Campaign, Sweet distribution to orphanage etc.

File Description	Document
Any Additional Information	View Document

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 9

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 9

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Brochure or any other document relating to value added courses.	View Document

1.3.3 Percentage of students undertaking field projects / internships	
Response: 36.17	
1.3.3.1 Number of students undertaking field projects or internships	
Response: 387	
File Description	Document
Institutional data in prescribed format	View Document

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2)Teachers, 3)Employers, 4)Alumni and 5)Parents for design and review of syllabus-Semester wise/ year-wise A.Any 4 of the above B.Any 3 of the above C. Any 2 of the above D. Any 1 of the above Response: A.Any 4 of the above	
File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback processes of the institution may be classified as follows: A. Feedback collected, analysed and action taken and feedback available on website B. Feedback collected, analysed and action has been taken C. Feedback collected and analysed D. Feedback collected Response: B. Feedback collected, analysed and action has been taken
--

File Description	Document
URL for feedback report	View Document

NAAC

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
List of students (other states and countries)	View Document
Institutional data in prescribed format	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 60.95

2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1070	1134	1104	867	605

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1530	1695	1800	1620	1140

File Description	Document
Institutional data in prescribed format	View Document

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 25.26

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

2017-18	2016-17	2015-16	2014-15	2013-14
238	247	229	170	112

File Description	Document
Institutional data in prescribed format	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

Institution admits students from diversified social and economical background having a blend of advanced learners and slow learners. The learning levels of the students after admission are assessed by their entry level score analysis, this helps in identifying advanced learners and slow learners. The collected data are analyzed and discussed before the start of semester and appropriate measures are initiated to meet the needs of all types of learners.

An orientation program is arranged by our institute to help students in getting familiarized with the institute. Students are introduced to their respective department giving them a brief idea about laboratories. At the beginning of the semester; few lectures are devoted to cover the subject prerequisites, necessary for subject understanding. Based on the response of students to these sessions, staff makes necessary changes in teaching methodology. Extra classes are arranged for subject with high difficulty levels. Subject Experts from industry and academics are called for delivering student enrichment lectures. Students share their views and opinions with the faculty members, class coordinator and take guidance and support in the subject of interest if required.

Advanced learners are encouraged to participate in various programs organized by our institute and other institutes such as-

- Group discussion sessions to improve communication skills
- Inter college and intra college technical quiz competitions to develop analytical skills
- Seminars to improve their presentation and communication skills
- Awards are given to university rankers to encourage students to secure high ranks and secure awards and prizes in various inter and intra college competitions
- Carry out innovative mini projects
- Present their project work in project competitions
- Use digital library resources to gain advanced knowledge

- Attend training workshops organized by different institutions on various subjects
- Undertake industry sponsored projects to challenge their knowledge
- Undergo vocational trainings at the end of academic year
- To visit different industrial organization
- To prepare for competitive exams such as GATE/PSU/MPSC/CAT etc
- To use and learn more from resources like NPTEL study materials, spoken tutorials and video lectures.

Programs for Slow Learners -

- The College has established student counseling mechanism at department level which helps needy students to overcome their personal and educational difficulties.
- Faculty advisor/class coordinator collect, maintain and analyze student attendance, internal test marks, classroom performance of every student and based on which they are motivated to improve their overall performance.
- Internal test marks and student attendance are periodically communicated to parents through parent intimation forms by each department.
- Faculty advisors counsel the slow learners and encourage them by providing class notes, reading materials and solved university question papers, to avoid the risk of drop out.
- Remedial classes are arranged for the subjects with poor result.
- Subject teacher organizes extra lectures than prescribed in the syllabus structure for subjects with high difficulty levels.
- Subject teacher provides study material in form of ppts, video lectures and e-books to these students to help them in clearing the examination.

File Description	Document
Any additional information	View Document

2.2.2 Student - Full time teacher ratio

Response: 15.51

File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.09

2.2.3.1 Number of differently abled students on rolls

Response: 1

File Description	Document
List of students(differently abled)	View Document
Institutional data in prescribed format	View Document
Any other document submitted by the Institution to a Government agency giving this information	View Document

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

Response:

Institute uses student centric approach to enrich the learning experience of the students. An academic calendar, academic diary, tutorials, teaching plan and evaluation scheme which is most important for effective implementation of academic process is prepared at the start of each academic year.

The major steps taken by our institute for experiential learning by students include:

Originative Learning

- Students are encouraged to present seminar on various topics in class rooms in front of their class mates.
- During practical hours faculty communicates with the students to know the level of understanding of the students.
- Delivering lectures/practical in interactive manner using different ICT tools.
- Encourage students to participate during practicals and theory by asking questions.
- Internal tests are conducted for students to test their subject understanding.

Independent learning

- Institute encourages students to participate in various intra-institutes and inter-institute events which stimulate critical thinking, creativity and scientific temper in the students.
- Students during their third year of study undertake mini projects, field trainings which pave a way for them to cultivate analytical skills and ingenuity.
- Final year Students are given innovative projects to inculcate the concept of originality and problem solving ability in them.
- Students are encouraged to attend different seminars, workshops and training session hosted by nearby institutions to sharpen their social and personal skills.
- Institute makes them participate in Quiz Competitions, Poster Presentation, and various technical events which help them to think, explore and apply variety of new ideas.
- Institute organizes trainings and workshops on different subjects for developing soft skills and professional skills of students.

Synergetic Learning

- Assigning Mini-Projects / Final Year Projects to group of 3-5 students aids to inculcate the practice of team work, decision making and leadership skills.
- Encouragement for participation in various curricular, extra-curricular activities like project competition, poster presentation, programming competition, seminars and sports competition, etc. at intra and inter institute level.
- Industry sponsored projects are carried out at the final year engineering which develops team spirit, lifelong learning attitudes along with technical and professional skills.
- Motivate the students to develop prototype models, software based applications etc.

Collaborative learning

- Different Industrial Visits are arranged for each department for related topics.
- The MOUs are also signed with different industries/organizations for organizing industrial visits and guest lectures.

For enhancing learning experience of students following initiatives are taken by our institute:-

1. **Use of videos and animations in teaching:** - students learn concepts easily when they are visualized in better manner. Videos and animations help in overcoming the barrier of visualization and help in better understanding.
2. **Visits to industries:** - to make students aware about engineering processes and technologies; regular site and industry visits are arranged. During visit faculty explains the correlation between theoretical and practical part of the subject concept.
3. **Final year projects:** - students and faculty visit industries in nearby MIDCs and find the industry specific problems to solve. The students and their respective guide work on this problem; find a feasible solution and implement it in the target industry.

File Description	Document
Link for Additional Information	View Document

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 81.16

2.3.2.1 Number of teachers using ICT

Response: 56

File Description	Document
List of teachers (using ICT for teaching)	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 6.45

2.3.3.1 Number of mentors

Response: 166

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

The innovative approaches adopted by the faculty include:

- Teaching faculty use laptops, PPTs, NPTEL video lectures and online study resource materials like different online publications, you tube videos etc.
- Subject teacher communicates to students about subject prerequisites, course objectives and outcomes before commencement of the course.
- Based on the subject learnt by the students, mini projects and major projects are assigned for correlating theory and practical knowledge.
- Students are encouraged to deliver seminars on topics beyond syllabus for self learning experience.
- Student enrichment lectures by Industry/academic experts are organized for students.
- Subject experts are called to deliver lectures on subject related topics.
- In order to have experiential learning, Industry visits are arranged in nearby industrial areas.
- Students are encouraged to take part in training/seminars and workshops for demonstrating participative learning.
- Unit wise question banks are given to students for improving their self learning experience.
- For difficult subjects assignments are given to students for additional knowledge gain.
- Library facilities are provided to students beyond working hours during examinations.
- Digital library containing video lectures, PPTs and animations; is created at department level so that students can access additional learning resources for self study.
- Central library is enriched by procuring new books which include textbooks as well as reference books.
- Study room is provided for students to complete their tasks during and beyond working hours, during examinations
- The institute central library has digital library subscription for students and staff members.
- NPTEL videos, educational CDs, e-books for different subjects are provided to students and are used by teachers.
- Central library contains books on various competitive examinations conducted by different competent authorities.
- To create awareness on current affairs across the globe into the students, leading regional and national newspapers are provided in central library
- The students are trained through special training on personality development, communication and aptitude training.
- Students are encouraged to publish papers based on their project work at final year engineering.
- Faculty members participate in National/International level seminars, workshops by extending

academic leave and required financial assistance.

- Institute also motivates faculty members to publish the research work in different international journals.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years	
Response: 58.87	
File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years											
Response: 1.68											
2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years											
<table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table>		2017-18	2016-17	2015-16	2014-15	2013-14	1	1	1	1	1
2017-18	2016-17	2015-16	2014-15	2013-14							
1	1	1	1	1							
File Description	Document										
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document										
Any additional information	View Document										

2.4.3 Teaching experience per full time teacher in number of years	
Response: 4.52	
2.4.3.1 Total experience of full-time teachers	

Response: 311.7

File Description	Document
Any additional information	View Document

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 1.65

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	0	0	0

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document
Any additional information	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 0.57

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	1	0	0	0

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

The institute is affiliated to Shivaji University, Kolhapur and from year 2017-18 we are affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Dist.- Raigad. The regulations, curricula and syllabi of all the programs offered by the university are available in the institute and are displayed on university website.

Head of institute conducts a meeting with all the heads and faculty of the department before every semester regarding the smooth and fair conduction of examination; where every faculty members is encouraged to put forth his/her suggestion on various aspects of examination based upon inputs of previous examinations.

The distribution of term work marks and related documents are displayed on the notice board. The students are informed about criteria for the internal assessment and clearly made aware of the eligibility conditions (like minimum attendance requirement, journal submission, test performance etc.) to appear for final examination.

For students from Third year to final year, out of 25 marks 5 marks are allocated to attendance, 5 marks are allotted to timely completion, 5 marks are allotted to test performance, 5 marks for practical attendance and 5 marks for internal oral performance.

Reform in evaluation scheme of First and Second year engineering; 20 marks are for MSE, 10 marks are allotted for Continuous Assessment 1 (CA1) and 10 marks are allotted for Continuous Assessment 2 (CA2). CA1 is conducted before mid semester examination and CA2 is conducted after mid semester examination.

Academic calendar is displayed, that adheres to the systematic conduction of activities carried out at institute level and university level. Each department of the institute conducts internal tests. The students can see their respective answer books and discuss their queries with concerned staff. The test marks are displayed on notice board

The term work evaluation is done by respective teachers. The performance evaluation of students is communicated to students through continuous assessment work and accordingly internal term work marks are given.

The criterion adopted for internal assessment of students is in accordance with the directions by the university. All the students in our institute are familiar about the transparency in the internal assessment. Monthly attendance is displayed and communicated to students so that they can improve their academic performance.

The tests are conducted similar to the university examination. The assessed answer sheets are given to the students for verification whether all the answers are assessed. Student returns the answer sheets to the faculty when they are satisfied. The test results are communicated to students and are also sent to their parents through letters. Reform from the current academic year includes conducting two tests in a semester instead of one.

A project diary is maintained by the students including entire schedule of project stages. Project guide monitors the project completion status on weekly basis. Reform in project evaluation include due weightage to continuous progress, project concept, and presentation skills.

Evaluation of industrial training is based on the report submission and presentation by the student. Reform includes consideration to type of industry selected for training purpose.

File Description	Document
Any additional information	View Document

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

Robustness of the assessment system

- The criterion adopted for internal assessment of students is in accordance with the directions by the university. All the students in our institute are familiar about the transparency in the internal assessment.
- The institute has formulated a continuous internal evaluation system which consists of internal assessment of experiments, internal tests for monitoring student progress.
- Internal assessment is done by individual faculty for respective subject based on marks obtained in written tests, term work completed, percentage attendance, internal oral, industrial visits etc.
- Attendance of the students' participating in activities like group discussion, seminar, poster presentation, sports, project competition etc. is considered during continuous assessment process.
- Internal assessment is done for 25 marks, 5 marks are allocated to attendance, 5 marks are allotted to timely completion, 5 marks are allotted to test performance, 5 marks for practical attendance and 5 marks for internal oral performance
- Industrial visits are planned by every department during the regular academic schedule. Student's attendance to industrial visit carries weightage in their term work evaluation.

Transparency in internal assessment system

- The marking scheme for internal assessment is informed to the students. The details about schedule; plan and evaluation method are also informed at the beginning of the semester by course teacher.
- The tests are conducted similar to the university examination. The assessed answer sheets are given to the students for verification of whether all the answers are assessed or not. Student returns the answer sheets to the teacher when they are satisfied.
- Mid-term test of 50 Marks is conducted in every semester as per the academic calendar by all the departments. The results are communicated to students by displaying them on the notice board and to their parents through written communication by letters.
- While evaluating students for internal assessment, transparency is maintained and due weightage is given for their behavioral attributes, independent learning and communication skills.
- The assessment is done as per the instructions in the syllabus of university. The weightage of marks

for this is allocated in syllabus of particular subject which is communicated to students at the start of every semester.

- Project Work assessment (in mechanical engineering department) is done for 50 marks for the first semester and 50 marks in second semester, in which 10 marks are given for attendance/contribution, 20 marks for synopsis, 10 marks for literature survey, 10 marks for project diary. In second semester external examiner project evaluation carries 75 marks which are allocated based on project concept, application, and performance of students, usefulness, innovation, creativity, originality and results drawn.
- Industrial training and mini project assessment criterion are informed to students well in advance by the respective faculty coordinators.
- Students are given freedom to discuss queries related to internal evaluation with subject teacher/Head of the Department. The subject teacher clarifies the doubts and takes necessary action, if required.

File Description	Document
Any additional information	View Document

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

Response:

The institute is affiliated to Shivaji university, Kolhapur and DBATU, Lonere. The Principal and/or senior professors participate in all the meetings conducted by the university such as; syllabus revision workshops, meeting for finalizing the dates of university level examinations, schedule for centralized assessment work etc.

The mechanism followed for redressal of examination related grievances with reference to evaluation is as follows,

At University level:-

- In case of university examinations, there is a mechanism adopted by the university for redressal of examination related grievances. After declaration of the results, students can apply for revaluation / rechecking, photocopy of answer book through the examination section of the institute.
- Institute examination in-charge forwards these applications for revaluation to the university examination cell. After receiving the photocopy, students show the same to the concerned course teacher and discuss the grievances to seek advice.
- The student can claim for the marks suggested by teachers against the evaluation by university and the application is followed up regularly for speedy redressal of grievances.
- The revaluation process is carried as per the university rules.

At institute level:

- The mechanism of internal evaluation adopted by the institute is very transparent and students

agree to the given term work marks and sign the E-mark sheet.

- Distribution of termwork marks is displayed to all the students before the start of the semester. The termwork marks are given based on the student's academic performance.
- Internal test marks are displayed on the departmental notice board.
- The answer sheets of the internal examinations are shown to students by the respective subject teacher. If student has any grievances, the teacher-cum-examiner explains the fact clearly and can correct the grade or marks given, if justified.
- The students get their assignments checked from teachers and in this case the students can ask their queries to the faculty.
- Percentage attendance is displayed on the students' notice board and send to their parents. In accordance with this, term work marks are allocated to the students.
- Students are given chance to improve term work marks by performing well in attendance, timely completion, test marks, internal orals etc.
- If a student is not satisfied with the given term work marks he is allowed to put his view in front of subject teacher and head of the department. The subject teacher and head of the department discuss with principal for taking necessary action.

File Description	Document
Any additional information	View Document

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

The academic calendar is prepared before the start of every academic year which is finalized after the approval of the Principal. The academic calendar is made available to all the students and staff members. It gives details of important events during the academic year such as class test schedule, student feedback schedule, tentative dates of SUK exam etc. The departmental activities including curricular, co-curricular and extracurricular activities are planned in accordance with the academic calendar.

The activities planned by every department include:

- 1.Seminar presentations
- 2.Group discussions, quiz competition, debate etc.
- 3.Providing support for sports, cultural activities and various competitions.
- 4.Promotes the student to participate in mini projects, paper presentation, project competition, workshop, seminar etc.
- 5.Overall attendance.
- 6.Parents meeting.
- 7.Extra-curricular activities by the students.

Internal examination (mid-term test) in every semester test of 50 marks is conducted as per the academic calendar by all the departments. The results are communicated to students by displaying them on the notice board and to the parents through letters.

End semester university examination is conducted by university in prescribed time duration which is declared by the university on the website well in advance. College displays university examination time table and informs students regarding the schedule.

Practical/Oral examinations is conducted as per Shivaji University/DBATU guidelines. The schedule of examination is communicated to students as it is received from university examination section. Students are made aware of the procedure of practical examination well in advance. For practical examinations examiners are appointed by university authorities who come from different institutions to test performance of students and evaluate them based on their performance in the examination.

Term Work Evaluation- the marking scheme for internal assessment is informed to the students, the details about schedule; plan and evaluation method is also informed at the beginning of the semester by course teacher.

Project Work/mini-project- The assessment is done as per the instructions in the syllabus of Shivaji University. The weightage of marks for this is allocated in syllabus of particular subject which is informed to students at the start of every semester. Project Work assessment (in mechanical engineering department) is done for 50 marks each for the first and second semester. In second semester external examiner project evaluation carries 75 marks which are allocated based on project concept, application, and performance of students, usefulness, innovation, creativity, originality and results drawn.

Industrial visits are planned and carried out by every department during the regular academic schedule. Student's attendance to industrial visit carries weightage in their term work evaluation.

We are affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere from academic year 2017-18 and all the activities are strictly carried as per the university schedule.

File Description	Document
Any additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

Program outcomes describe knowledge, skills and behavior of students as they progress through the program as well as by the time of graduation. Hence, in order to fulfill the graduate attributes, the student and staff are clearly made aware of the learning outcomes.

- Program Educational objectives (PEO's), Program outcomes (PO's) are displayed in every department, also on college website and these attributes are conveying to the parents and students

through parents meet.

- Program outcomes (PO's) & course outcomes are discussed in every class of the department.
- Branch wise PEOs, POs, and COs are displayed on the institute website and POs, PEOs are displayed in the respective departments.
- COs are also available on Shivaji University and DBATU websites
- Faculty members include COs while preparing course files and take utmost care to achieve POs, COs and PEOs.

File Description	Document
COs for all courses (exemplars from Glossary)	View Document

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

Achievement of learning outcomes is verified as follows:

The student's performance is closely monitored by their respective class coordinators and concerned faculty members within class. In every month, attendance of the students is monitored and defaulter students are identified and advised to remain present during academics. The students along with class coordinator are made to interact with HOD to counsel weak students and suggest remedial actions such as extra classes for them. Student feedback is taken twice in every semester.

Institute level assessment:

The institute has a continuous internal evaluation system. The progress and performance of the students during four years of program is assessed through midterm examination, assignments, orals examination etc. These tools are used to find out the progress of the students and to improve their academic performance. The institute organizes regular meets with parents and guardians to have constructive dialog.

University examinations:

The university conducts theory and practical examination at the end of each semester. The result of same are communicated to the students and parents. The academic monitoring is also done from university result. Collecting data of the performance of the students in the previous qualifying exam before commencement of the course to assess the ability of the student and identifying academically excellent as well as weak students. Result analysis is prepared by every department after the declaration of university results for every semester. According to the result analysis, progress of the subject result observed and necessary corrective action taken.

The attainment of COs, POs is done by direct method through institute level assessment (Internal) and University level assessment. The contribution of University level assessment is considered 70% including Theory examination (end semester examination), student Termwork marks and Practical oral examination. Internal assessment contribution is 30% including Midterm examination. The levels of attainment are

defined based on the attainment of students in individual subject. The attainments are being calculated in our institute from previous year. The measurement of attainment and setting of target attainments will be done in next three years by creating baseline for each subject. Our aim is to improve current level of attainment by continuously improving teaching and learning process.

2.6.3 Average pass percentage of Students

Response: 78.88

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 310

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 393

File Description	Document
Institutional data in prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 0.1

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0.10	0	0	0	0

File Description	Document
List of project and grant details	View Document
e-copies of the grant award letters for research projects sponsored by non-government	View Document

3.1.2 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0

3.1.2.1 Number of research projects funded by government and non-government agencies during the last five years

3.1.2.2 Number of full time teachers worked in the institution during the last 5 years

Response: 303

File Description	Document
Supporting document from Funding Agency	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Initiatives for creation and transfer of knowledge:

- Institute motivates faculties to participate in seminars and conferences and give financial assistance & provides duty leaves to them.
- Different FDP, STTP, Workshops are arranged in institute for faculties to increase their knowledge.
- The students are given small activity by the faculty members involved in research to inculcate research culture among the students.
- Students are encouraged to carry out their project work with the application of scientific research methodology.
- The students are encouraged to participate in different competitions/events such as tech-fest, science fair, technical paper competitions, and project competition.
- The institute also organizes workshops and seminars to create curiosity among the students as well as to get a chance to meet the distinguished experts in the related area.
- Institute encourages students to publish papers in national conferences /journals and participate in various technical events and competitions under the guidance of our experienced faculties.
- Various guest lectures are organized for students by experienced faculties and industry persons at department level.
- The institute is member of Indian Society for Technical Education (ISTE) and proposal of 14 faculties for Life Time Membership of ISTE has sent for approval this year.
- Institute is member of lead college cluster through which different training programs are arranged for faculties and students.
- To increase industry - institute interaction industrial visits are arranged for faculties and students every semester.
- To encourage students in project work, students are sent to various industries in near by area for field training.
- Different MOU's are signed by institute and department level also to arrange expert talk as well as to visit their industry.
- Institute always arrange seminars/guest lectures to guide students about higher studies.
- The institute has updated the library by subscribing e-journals to facilitate research environment and to create interest among the teachers and students. Good reference books are also available in the central library. There are high performance personal computers with internet access in the library.
- Institute also organizes national level technical events for the students to explore their talent.
- Institute organizes industrial visits beyond curriculum without any charges taken from students to visit nearby industries.
- Institute has facility of 45 Mbps internet connectivity to all computers, as well as 24 X 7 Wi-Fi connectivity in the campus.
- The institute has subscription of more than forty national and international journals, Periodicals and more than hundred E-Journals from various fields with E-Resources like DELNET for the fulfillment of research activities
- The institute is also a member of NDL and NPTL through which online books, notes, audio and video lectures are present for students and faculties for academic and research work.

Benefits from these initiatives are as follows:

- Sharing of resources with other institutes in form of eminent guest speakers is beneficial for research.
- Through MoU with Quick Heal our students have delivered presentations on Cyber Security for

morethan 5000 students.

- By vocational training and industrial visits the actual work environment of industries is experienced.
- Increased participation of students and faculties in national/international journal publication

File Description	Document
Link for Additional Information	View Document

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 2

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	0	0	0

File Description	Document
List of workshops/seminars during the last 5 years	View Document
Any additional information	View Document

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
e- copies of the letters of awards	View Document

3.3.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 0.22

3.3.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
76	1	0	0	0

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

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

Response: 1.5

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

2017-18	2016-17	2015-16	2014-15	2013-14
74	7	0	3	7

File Description	Document
List books and chapters in edited volumes / books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising

students to social issues and holistic development during the last five years**Response:**

NMCOE institute always motivates students and faculty participation in social activities and drives for adhering to ethical values.

NMCOE is committed to social responsibility, by carrying out its mission through:-

- Research
- Social awareness on higher education.
- Various social and cooperative actions and initiatives.
- Social Learning.
- Leadership, community and team building skills.
- Awareness for social responsibilities.
- Integration of social responsibility in to every faculty members.

The institute aims at providing an atmosphere of holistic development of students thereby transforming them into responsible citizens by transferring moral values. It aims at pursuing excellence towards creating students with high degree of intellectual, professional and cultural development to meet the national and global challenges. Following are the programmes conducted every year for the same.

- The flag hosting ceremony at Independence Day, Republic Day involving all staff & students, local government authorities and guests.
- Students of our institute actively work in social and cultural activities e.g. In Gokul Ashtami popularly known Dahi-Handi event is conducted at Islampur and our student works over there as volunteers to maintain safety and resolve issue of traffic.
- Organizing blood donation camp.
- Celebration of international yoga day.
- Institute arranges different Entrepreneurship and skill development seminars at department level to develop students.
- Institute has conducted a district and state level Science Exhibition in our campus to provide platform for the neighborhood community students.
- Our institute organizes cultural programs like Ganesh Festival and birth anniversaries of socially eminent personality. The observed impacts of such outreach programs have been found to boost the moral values and ethics of the students while doing different social and cultural activities. Institute has special cultural group called “Kalasarthi” which is active in these various cultural programs.

Extension Activities:

- For the extension activity in the neighborhood community faculties give students project related to social issues.
- Different activities like PAN card & Passport generation are conducted in our Institute for students and village people convenience.
- Awareness of E-banking/Cashless system is carried out by our students in different villages near by institutes.
- Collected information from government offices like Panchyat Samiti and private sectors like HDFC bank, Islampur and conducted awareness program on How to use E-servies in schools and villages.

File Description	Document
Any additional information	View Document

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 2

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	1	0	0

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 12

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

2017-18	2016-17	2015-16	2014-15	2013-14
7	3	2	0	0

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 13.71

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
232	210	117	62	64

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 231

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
51	67	48	51	14

File Description	Document
Number of Collaborative activities for research, faculty etc.	View Document
Copies of collaboration	View Document
Any additional information	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 30

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
16	9	3	2	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The institute has sufficient physical facilities and infrastructure for the existing academic programs and administrative functions, co-curricular and extra-curricular activities. The Institute creates the necessary infrastructure systematically and continuously based on the rising requirements with a futuristic vision of the need and utility.

1. Infrastructure Enhancement for Effective Teaching and Learning

- The general infrastructure policy of Nanasaheb Mahadik College of Engineering is formulated to achieve the mission of Teaching and Learning in an effective way and as per norms.
- The college upgrades and maintains the infrastructure, keeping in view the requirements of the present courses according to the needs of the curriculum.
- The infrastructural policy also aims at implementing or improving the educational infrastructure in order to cater the changing needs.
- The policy of the laboratories is framed according to the Vision and Mission of the college. The institute takes appropriate steps in time to enhance laboratory facilities and the purchase new equipment as needed. New equipment is added to the laboratories regularly.
- The college has provision of adequate amenities like canteen, mess, transport, playgrounds, stationary store, reprography, security, maintenance, pantry, first aid cum sick room etc.
- The college has disabled friendly access facilities such as ramps, sufficient size of steps etc.
- The institute purchases books for central library to enhance learning ability of students.

2. Specialized facilities and equipment for teaching, learning and research:

- The college has an exclusive english communication language lab.
- Each department is having departmental library with reference and text books, journal papers, and Digital Library Section with presentations, NPTEL videos, spoken tutorials etc.
- An E - learning facility is provided to students.
- All standard prescribed text books, reference books in the central library are bought as per the requirement. Also, every year video lecture has been added to library.
- Reading Room for Boys and Girls are available in library.

3. Details of the facilities available in college

The institute has well equipped laboratories, ventilated and well furnished class rooms to cater the needs of its academic excellences for admitted students, as per the norms.

Sr.No.	Description	Quantity	Area(Sqm)
1	Class Rooms	20	1775.13
2	Tutorial Rooms	02	77.82

3	Laboratories	26	2269.32
4	Drawing Hall	01	140.61
5	Workshop	01	625.21
6	Seminar Hall	01	140.61
7	Computer Center	01	151.38
8	Library & Reading Room	01	571.52
9	Principal/ Director Office	01	66.71
10	Board Room	01	37.53
11	Office All Inclusive	01	180.8
12	Department Offices	05	117.35
13	Cabins for Head of Departments	05	59.43
14	Faculty Rooms	-	269.43
15	Examination Control Office	01	37.53
16	Placement Office	01	116.7
17	Central Stores	01	35.43
18	Security	01	24.1
19	Toilets (Ladies & Gents)	04	220.34
20	Boys Common Room	01	56
21	Girls Common Room	01	24.10
22	Cafeteria	01	170.88
23	Stationery Stores & Reprography	01	12.19
24	First Aid Cum Sick Room	01	12.19
25	NSS Room	01	24.10
26	Gymnasium	01	135.61
27	Hostel	02	3736.34

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor), gymnasium, yoga centre etc., and cultural activities

Response:

1. Sports (Outdoor and Indoor Games), Gymnasium

- The perspective plan of the college is to pay special attention to sports infrastructure.
- The Physical Education Department maintains the grounds for both indoor and outdoor games.
- It has a well maintained ground for various outdoor games like Kabaddi, Volleyball, Football, Kho-Kho, Hockey, Jumping Pit etc.
- A separate indoor games facility for promoting table-tennis, Carrom and Chess.
- A Physical Director is appointed to look after the games and sports activities in the campus.
- College teams take part in Shivaji University Zonal level competitions and other intercollegiate competitions.

- Sport department conduct interdepartmental team and individual sport competitions at institute level and the winners and participants are awarded in Annual Sports Day celebration to encourage them.
- The college extends financial support to meet incidental expenses of the sports meet.

2. Auditorium

The college has proposal of an open auditorium with a seating capacity of 700 to conduct various events throughout the academic sessions.

3. Cultural Activities

- The Institution has formed the cultural club name as "Kalasarthi" in order to provide a platform for the students to bring out their linguistic and artistic talents. Frequent programs are conducted to encourage the student's participation.
- Students are encouraged to participate in the cultural events, local festivals and folk events in every year.
- Every year annual social gathering is organized involving activities like solo dance, group dance, solo singing, group singing to give opportunity for students to exhibit their individual skill & talents. Also Rangoli exhibition, drawing competition etc. is organized.
- Interdepartmental technical competitions are conducted to enhance the talents of students.
- Students are participating regularly in lead college activities.

4. Communication Skills Development

- Academic schedule is planned so as to develop the students' communication skills and public speaking ability.
- The first year students are encouraged to exhibit their talents in classroom.

5. NSS, Yoga, Health and Hygiene

- Yoga workshop is organized for students and faculty by trained yoga instructors, for physical and psychological well being.
- Student's are encouraged to take part in NSS, other awareness programs, blood donation camps and special camp organized in order to create awareness about social responsibility.
- The management ensures cleanliness in the campus on a day to day basis by providing necessary facilities like dustbin etc.
- Students are educated and involved in maintaining cleanliness in the college.
- The college engages separate housekeeping staff for maintaining clean and hygienic surroundings.

6. Infrastructural facilities for sports

Sr. No.	Particulars	Area in Sq.M	Year of establishment	User rate
Outdoor Ground				
1	Football Ground	5700	2016-17	Regular
2	Volleyball Court-1	300	2015-16	Regular
3	Volleyball Court-2	300	2015-16	Regular
4	Hockey	5027	2015-16	Regular

5	Kabaddi Ground	210	2014-15	Regular
6	Kho-Kho Ground	528	2014-15	Regular
7	Jumping Pit	30	2014-15	Frequent
Indoor Sports				
1	Table-tennis	135.61	2017-18	Frequent
2	Gymnasium		2016-17	Regular
3	Carrom		2013-14	Regular
4	Chess		2013-14	Regular

File Description	Document
Link for Additional Information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 38.1

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 8

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
Link for additional information which is optional	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 5.86

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
10	17	5	35	25

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

Library Automation :- Library automation is carried out by the Biyani Library Management Software. The bibliographic databases of all the volumes and titles are prepared and made available on the OPAC. The circulation of books has been activated through barcode system to the staff and students. All kinds of reports for library resources are generated through library management software such as Accession Register, Collection of books, Circulation of books, Daily utilization reports of books, Individual reports of students and staff, barcode generation of students and staff, barcode of books and bibliography of library resources etc.

Procurement of Library Last 4 Years (Collection added in last 5 years in Lakhs.)

Library Holdings	2014-15		2015-16		2016-17		2017-18	
	Nos.	Total Cost	Nos.	Total Cost	Nos.	Total Cost	Nos.	Total Cost
Text Books/ Reference Books	1184	507237	2343	1044017	618	278421	575	217611
Journals/ Periodicals	-	-	23	43500	22	35000	40	88875
E-Journals (ProQuest)	-	-	-	-	105	55000	-	-
E-Resources (DELNET)	-	-	-	-	1	16500	1	13570
Any Other (Library Software & Related Tools)	-	-	-	-	1	54000	-	-

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Central Library is equipped with collection of books such as competitive exam books, a good collection of reference books along with technical journals. The library also contains handbooks /encyclopedias, Dictionaries, Knowledge Books etc. The books on soft skills, personality development, interview techniques, GATE preparation guide etc. are available in the library. The institute is member of the National Digital Library and has access to its collection of books. The library also has collected student

project reports for reference of students.

4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document
Any additional information	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 4.92

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
3.20	3.84	10.87	5.07	1.62

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document

4.2.5 Availability of remote access to e-resources of the library**Response:** Yes

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students**Response:** 9.04**4.2.6.1 Average number of teachers and students using library per day over last one year****Response:** 103

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure**4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

- The institute has 45 MBPS Airtel leased line.
- **LAN facility:** LAN of Computer Center labs is of 100MBPS capacity. All computer labs are connected to a Central Server room through Local Area Network.
- **Wi-Fi facility:** Entire campus has Wi-Fi connectivity of Jio Net 10 MBPS throughput with 5 High Gain Industrial Wireless Outdoor Antenna.

Sr.No.	Description	Quantity
1.	Number of computers	208
2.	Number of servers	2
3.	Total number of printers	17
4.	Total number of scanners	4
5.	LAN facility	All nodes
6.	Internet speed	45 MBPS
7.	Jio net Wi-fi facility	Available
8.	Computer processors	i3, i5 and Dual Core
9.	LCD projectors	9

4.3.2 Student - Computer ratio

Response: 5.6

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: 35-50 MBPS

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: No

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 6.78

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

2017-18	2016-17	2015-16	2014-15	2013-14
21.55	22.94	23.63	21.57	17.89

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

1. Building maintenance:

- To provide a good infrastructure, a proper maintenance is taken for the buildings, furniture and fittings.
- An Infrastructure Coordinator has been appointed from the senior faculty of Civil Engineering Department having professional experience for the overall development and maintenance work.
- In case of any maintenance related issue Lab Incharge/HOD forward application to Infrastructure Coordinator. After verifying complaint and identifying necessary action for repair/replacement, he gets the task completed.

2. Equipment maintenance:

- Laboratory equipments are serviced and maintained by competent man power in respective departments.
- A teaching faculty is assigned duty of lab in-charge who maintains dead stock entries, get those entries verified from head of department.
- Every lab is maintained by a lab assistant and monitored by lab in charge. Lab assistant check equipment in lab at regular time interval and generate reports about condition of the equipment in lab. The same report is submitted to lab in-charge of lab.
- If any equipment fails, lab in-charge add requirement in new requirements list, requirement list which is validated by concerned HOD.

3. IT Maintainece:

- The system administrator is available to attend the computer hardware/software and network connectivity related issues.
- The task of is to establish and maintain IT infrastructure in the campus.

4. Electrical maintenance:

- Power supply, generators and electrical repairs are handled by the Electric Coordinator to facilitate the campus with reliable electric power.
- In case of any maintenance related issue Lab Incharge/HOD forward application to Electric Coordinator. After verifying complaint and identifying necessary action for repair/replacement, he gets the task completed

5. Library maintenance:

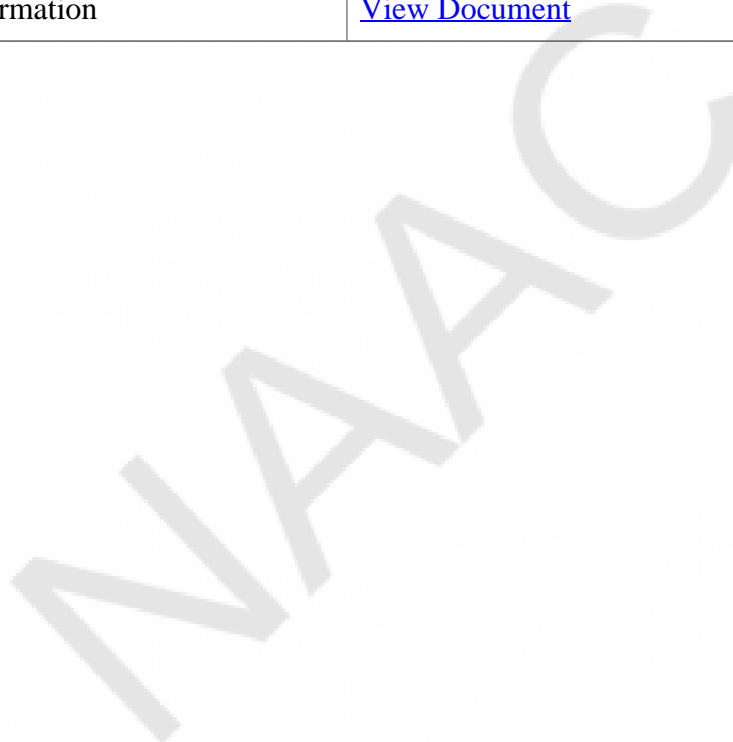
- Head of departments circulates sheet to all faculty members regarding new book requirements.
- This requirement is collected two months before start of new semester.
- For each subject, list of textbooks, reference books, required copies for current strength of students and remark is specified in sheet.
- Head of departments forwards all book requirements to librarian.
- Librarian verifies existing stock of books and new requirement and adjusts required copies accordingly. After all requirements are finalized, quotations are invited from publishers.

- Librarian sends purchase order to the vendor after approval from Principal.

6. Housekeeping and Gardening maintenance:

- The garden is conserved retaining regularly to have an exotic look to the college by maintaining the lawns and floras.
- Housekeeping staff cleans his assigned area thrice a day.

File Description	Document
Link for Additional Information	View Document



Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 71.96

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

2017-18	2016-17	2015-16	2014-15	2013-14
811	807	795	612	425

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	View Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	View Document
Any additional information	View Document

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 16.68

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
258	287	164	166	00

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	View Document
Any additional information	View Document

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 26.2

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

2017-18	2016-17	2015-16	2014-15	2013-14
579	337	275	193	0

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years**Response:** 17.09

5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
390	315	176	46	00

File Description	Document
Details of the students benefited by VET	View Document
Any additional information	View Document

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases**Response:** Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document
Any additional information	View Document

5.2 Student Progression**5.2.1 Average percentage of placement of outgoing students during the last five years****Response:** 3.17

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
11	15	15	1	0

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document
Any additional information	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 11.29

5.2.2.1 Number of outgoing students progressing to higher education

Response: 35

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 0.48

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	00	1	00

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
181	156	108	42	00

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

5.3 Student Participation and Activities

5.3.1 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) during the last five years.

Response: 20

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

2017-18	2016-17	2015-16	2014-15	2013-14
4	13	2	1	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document
e-copies of award letters and certificates	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

Yes,

The institute has a student Council as per the UGC and university norms. Student representatives from each class, NSS coordinator, sport coordinator, cultural coordinator etc. are members of committee. Committee conducts meetings to discuss different activities which can be implemented in college. The institute has an active student's council with incorporation, participation of the boys and girls students. The participation of students in the student's council helps to improve their leadership abilities and management skills. Members of this committee jointly organize different activities in college campus like World Yoga Day, Blood Donation Camp, Plantation, and Visit to orphanage etc.

Each department has their own student association. Under this student association each department organizes various technical and non technical events like Techno-Byte 2K15, I²2K15, workshop on ethical hacking, National Network Security Championship, National Robotics Championship, Shiv Jayanti etc.

The student council was established in our institute since 2013-14. The student council was not formed in the college after 2014-15, because the university act was in the suspension and supposed to be replaced by Maharashtra Public University Act, 2016. However, the college took the initiative to give representation to the students during this period by inducting them as members of the different college working committees and departmental student associations. We have reformulated students council in the year 2017-18 as per the new guidelines.

Students' representation and participation have been an integral part of the academics. Students' are the part of various committees as below:

- Anti-ragging Committee
- Internal Complaints Committee
- Internal Quality Assurance Cell
- Departmental Association Activities
- National Service Scheme (NSS)
- Gymkhana Committee
- Cultural Committee
- Library Committee

Institute organizes annual sports, annual cultural festival, NSS, technical and nontechnical events etc. The aim of forming student council is to understand and overcome student's difficulties and to improve cultural and extracurricular activity skills. The details of cultural and sports events conducted in our institute are as follows:-

Cultural event includes:

- Rangoli exhibition
- Mehandi competition
- Flower Decoration
- Funny games
- Fishponds
- Singing
- Dance
- Drama
- Fashion show

Sport event includes:

- Volley ball (M/W)
- Cricket (M/W),
- Kabaddi (M/W),
- Kho- kho (M/W),
- Foot ball (M/W),
- Chess (M/W)

- Athletics

File Description	Document
Any additional information	View Document

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 8.2

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
12	8	9	7	5

File Description	Document
Report of the event	View Document
Number of sports and cultural activities / competitions organised per year	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The first batch of the institute passed out in the year of 2014-15. The institute has a registered alumni association (Maharashtra/391/2017). Institute has decided to conduct alumni meet of 25th december every year. The institute held its first alumni meet on 25th December 2016. Total 34 alumni were present for this meet. The second alumni meet was organized on 25th December 2017 with good number of alumni being present for the event than the previous meet. During these meets, college achievements, progress, and future plans were shared, and feedback was taken from alumni. This feedback is taken into consideration while preparing the future plans for college development.

Institute invites alumni to talk with current students to understand the actual field problem, how to face industry challenges, Interview preparations to be done, how to prepare well & what is expected etc. They share their experience for the betterment of the current student. This is the continuous development process for ongoing students. Thus the institute puts in efforts in maintaining good relations with its alumni

involving them in the development of the institute.

The alumni have contributed into the development of students in many ways. Some of the contributions are enlisted here,

- Mr. Dinesh Dhumal from E&TC department conducted a workshop on PLC & Introduction to SCADA.
- Ms. Shweta patil from E&TC department conducted workshop on CCN.
- Ms. Pooja Hawaldar from Civil department has delivered guest lecture on Building construction and material.
- Mr. Arshad Pathan from Civil department has delivered guest lecture on Advanced foundation Engineering.
- Ms. Komal Patil from Electrical department delivered guest lecture on Network Analysis.
- Ms. Dipali Chavan from CSE department delivered lecture on Data Communication.

File Description	Document
Link for Additional Information	View Document

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: <1 Lakh

File Description	Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 2

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	0	0	0

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	View Document
Any additional information	View Document
Report of the event	View Document

NAAC

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

Vision:

To develop a student into a graduate engineer with an attitude towards research and development.

Mission:

- To impart quality education by continually changing academic contents.
- To enhance career opportunities for students through exposure to industry.
- To develop student by encouraging creativity, adaptability to apply know-how and thinking.
- To inculcate sensitivity toward society and a preserve environment.

Institute commits quality education which leads to development of the students. More focus is given to academics as well as practical knowledge of the students. Being a part of a society, institute is always committed towards social responsibilities and encourages students to make projects which will be beneficial for society. Collaborations are done with the industries in order to enhance the practical knowledge of students through industrial visits and industrial training. Institute incites students to actively participate in NSS, sports and cultural programs so that they can develop an all-round personality and treat learning as a developmental process & look industry in a broader outlook. The gender equality is maintained in the institute through establishing 'Utkarsha Women Cell' and Internal Complaint Committee (ICC). It gives a platform to girls and women employees of the institute to express their own skills. College level committees include representation from management, teaching and non-teaching staff and students, which plays the most important role in the overall development of the institute.

File Description	Document
Link for Additional Information	View Document

6.1.2 The institution practices decentralization and participative management

Response:

The institution functions with the method of decentralized governance system. The head of the departments are given the authority of deciding the activities and delegating the responsibilities to the staff members. The department decisions include preparing timetable, subject allocation, purchase and maintenance of equipment, organizing conferences, guest lectures and workshops and recommends

necessary industrial visits and MoUs. There are various committees involving staff which is constituted to manage different institutional activities. Committees are formed for the various curricular, co-curricular and extracurricular activities to be conducted during the academic year. Dean Academics has been given authority to monitor the teaching-learning process and set the policies for smooth conduction of academics. Training & Placement officer has been delegated responsibility of campus placement, organization of various events, workshops for the overall development of the students and improving students employability. This decentralization reduces wastage of time in decision making addressing students and staff issues more effectively and quickly.

The Institute has always been in favor of participative management. The principal is the administrative head of the institute. The management is always open for discussion with the teaching and non teaching staff which, in turn, encourages the involvement and participation of the staff towards the improvement of effectiveness and efficiency of the institutional process. The principal with the head of the departments discuss the needs, snags and suggestions to improve the educational quality and infrastructure improvements followed by a talk to the management for further action. The decision suggested by faculty in departmental meetings and HOD meetings is conveyed to the management through the principal.

The **Governing Body (GB)** is the executive authority and exercises general supervision and control of the affairs of the college. The governing body also formulate strategic plans of the organization. The policy decisions taken by this body decides the long term impact on institute.

To maintain quality in the work environment and to create open and safe environments for individuals to work in the college, the college has duly constituted an **Anti-ragging Committee** and an **Internal Complaint Committee** (Anti-Sexual Harassment Committee).

Local Management Committee (LMC) shall responsible for prepare an overall comprehensive development plan of the college regarding academic, administrative and infrastructural growth.

Case study:

1. For the overall development of the institute, the institute accepts various suggestions from students too. For this purpose, suggestion box has been located at easily accessible points for students to drop their suggestions/ complaints (if any). These boxes are opened by two times in the every semester in the presence of Principal. Necessary action is being taken after studying the nature of the complaints.
2. Subject wise guest lectures of various expert faculties from outside institutes are also arranged as per suggestion given by students. Technical and non-technical guidance boost students confidence in respect of their final score, performances and shape their thought process.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution**Response:**

Institute has a quality policy ensuring to its vision and mission. Overall and systematic execution of this policy is key monitoring by top administrative and academic bodies. The quality policy has reviewed through internal audits and feedback from stakeholders through IQAC (Internal Quality Assurance Cell).

As far as perspective plan or strategic plan is concerned, it is prepared by Local Management Committee (LMC) & Governing Body (GB) of the organization. Improving students' employability, welfare schemes for teaching and non-teaching staff members, memorandum of understanding, developing infrastructural and research facilities, encouraging faculties to conduct and/or participate Short Term Training Programs (STTP) etc. are key factors decided by governing body of the institute.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document
Strategic Plan and deployment documents on the website	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism**Response:**

A well disposed management stands as an asset to the stakeholders. The Governing Body takes the responsibility of monitoring the implementation of activities in the institutional strategic plan. The Governing Body, HODs, teaching staff, non-teaching staff, students and stake holders work as a team to reinforce the culture of excellence.

Principal is the chairperson of administrative and academic activities of the institution. Heads of the departments take the responsibility of heading all the administrative and academic activities of the department. They are entitled to take decisions as per the needs of the situations. Based on the experience and the expertise of the faculty members, team leaders have been identified to lead different teams which are functioning effectively.

Recruitment strategy and Retention strategies:

Recruitment of teaching, non-teaching and office administration staff is planned at the end of every academic year as per the requirements of the next academic year. Recruitment of faculty is done as per guidelines and norms laid by AICTE/University. The faculty members on an Ad hoc basis are assured of their continuous service whose performance is better and satisfied.

Grievance redressal mechanism:

The institute has a Grievance Redressal Cell to review and resolve issues arose during the teaching-learning process. The cell is headed by the Principal. The grievances and complaints received are discussed in the meeting of the committee and are resolved. The institute has also Internal Complaints Committee (Anti Sexual Harassment Committee) which is formed to prevent cases of harassment and to look into grievances from girls students. Anti-Ragging committee is also formed to resolve the cases of ragging if any.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Planning and Development
2. Administration
3. Finance and Accounts
4. Student Admission and Support
5. Examination

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

Response: B. Any 4 of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation Planning and Development, Administration etc	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

There are various committees involving faculty which are constituted to manage different institutional activities such as:

- Internal Quality Assurance Cell (IQAC)
- Internal Complaint Committee (Anti Sexual Harassment Committee)
- Anti-Ragging Committee
- Local Management Committee (LMC)
- Grievance Redressal Committee
- Student Council Committee
- Welfare BC Student Cell/Special Cell Standing Committee (SC/ST Committee)
- Purchase Committee
- Alumni Association

In the academic year 2014-15, the institute was having only one student merit holder in university merit list. Considering this, in the LMC meeting, it was decided to improve this percentage by providing necessary assistance to the students. The efforts taken for this by faculties and students resulted into the better academic success as more students were put in the university merit list for Academic Year 2015-16; one Gold Medal in Electrical Engineering as well as another three different ranks in the university merit list was secured by our students.

File Description	Document
Link for Additional Information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The following welfare schemes are provided for teaching and non-teaching staff:

- Employees' Provident Fund
- Advance payment against salary
- Insurance for teaching and non-teaching staff
- Financial support to attend conferences / workshops and towards membership fee of professional bodies
- Uniform for non-teaching staff
- Hostel facility
- Institute organize workshop on stress management and financial management for the teaching and non-teaching staff.

File Description	Document
Any additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**Response:** 13.52

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

2017-18	2016-17	2015-16	2014-15	2013-14
12	15	12	5	0

File Description**Document**

Details of teachers provided with financial support to attend conferences, workshops etc. during the last five years

[View Document](#)

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**Response:** 2

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	5	1	0	0

File Description**Document**

Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff

[View Document](#)

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years**Response:** 36.37

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program,

Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
39	24	29	14	9

File Description	Document
Details of teachers attending professional development programs during the last five years	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

Faculty appraisal is a mechanism for improving teaching and learning. Institute agrees that teachers' professional competence and conscientiousness are the keys to the delivery of quality education in institution. In a well-designed staff appraisal system, the instruments and procedures can constitute valuable professional development for teachers and enable the management to assess teachers' performance. The Faculty appraisal system assists in recognizing and encouraging good performance on following key factor.

1. Faculty Subject wise performance
2. Subject wise result in the academic year
3. Contribution into student and institute development
4. Participation in curricular, co-curricular and extra-curricular activities
5. Participation in Short Term Training Programs (STTP), seminars, workshop and conferences on institute level or state or national / international level

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Institute has appointed accountant and his support staff for executing financial matters. He and his team keep entire record of internal financial activities i.e. Institute's daily expenses, Student's Fees Collection, Staff Salaries and other vendor payment dues and clearances, etc. Also institute carries external financial audit regularly for every financial year from the external auditing firm.

The major functions carried by accounts section include:

1. Daily expenses of the institute
2. Salary of teaching and nonteaching staff
3. Fee collection and record keeping

File Description	Document
Any additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document
Any additional information	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

The source of income for our institute is fees collected from students and fees received from social welfare department through scholarship and free ship. Mobilization of the funds and the optimal utilization of resources are extracted on the following key factors:

Students' Fees Collection

Salary of Teaching and Non-Teaching Staff

Various other Expenses

Laboratory Development	
Students Facility Development	
Loans from financial institutions	
File Description	Document
Any 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

Response:

The Institute has been started in the year 2011. As per the new guidelines from the NAAC, formal establishment of Internal Quality Assurance Cell (IQAC) was done in the academic year 2017-18. This cell is headed by Principal supported by Heads of Department & members of the institute. The members of IQAC cell meet regularly to discuss points related with overall development of students and teaching and non teaching staff. The solutions to various problems are discussed during this meeting and are implemented throughout the institution. The IQAC of institute works with an objective of improving academic and administrative performance of the institute and creating awareness about quality culture and institutionalization of best practices.

Case study:

1. One of the best practices institutionalized is to display and communicate the monthly attendance to students and their parents. Every department in our institute displays monthly attendance on the department notice board through which attendance for a particular month is communicated to the students. Letters are sent to the parents of students having attendance below 75%, so that they are aware about the students' academic performance. It will help to improve their attendance as well as academic performance.
2. Industry Institute Interaction through industrial visits is an outcome of IQAC process. IQAC suggested carrying out industrial visits for subjects having practical orientation apart from those suggested in university syllabus. This helps in having better understanding of the subject topic and collaborative learning objective. All the departments in our institute try to arrange industrial visits with the same objective to cover topics beyond syllabus.
3. Exposing faculties and students to workshops/seminars for knowledge enrichment. For developing subject knowledge of teachers and students; they are encouraged to attend workshops and seminars on various subjects. Institute also encourages staff members to organize such events in the college campus.
4. Training provided to students plays vital role in their placement. In our institute students come from rural area and they need training to improve their employability. IQAC suggested Training & Placement cell to arrange training programs on aptitude and soft skill development for the students.

Considering this suggestion, Training & Placement cell has arranged various training programs for our students.

File Description	Document
Link for Additional Information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

Institute reviews its teaching learning process-structures and methodology of operations as follows:

The Primary aim of the IQAC (Internal Quality Assurance Cell) is to improve the academic and administrative performance of the institution and to create a quality conscious working environment throughout the institution.

The mechanism and procedure to review teaching learning process through IQAC involves:

- Monitoring academic activities
- Collecting and analyzing feedback from students twice in every semester and from stakeholders once in an academic year
- Participation of teachers in seminars, workshops and conferences
- Students' participation in co-curricular and technical activities like seminars, workshops, guest lecture, industrial visit etc.
- Students performance in midterm tests and semester examinations
- Students performance in industrial project, seminar presentations etc.

Case study

1. Collecting and analyzing students and stakeholders feedback.

The feedback from students is collected twice in every semester through online feedback system. This feedback is collected department wise and subject wise. The collected feedback is communicated to respective staff members through head of the department. The student feedback is discussed during meeting of principal and head of the departments held after feedback. The faculty with low feedback gives strategies to improve their own performance and department submits their action plan for improving the teaching learning process. The feedback from stakeholders is taken during parents meet which is held once in an academic year. The suggestions from parents are discussed in meeting and are implemented throughout the institution for improving teaching learning process.

2. Experiential learning

Experiential learning is one of the key aspects of student centric learning methodologies. Industrial projects help students in applying their knowledge in solving real life problems. Institute encourages students to

undertake industry sponsored projects at final year engineering. This helps students to interact with industry persons for solving their specific problems. Students are also motivated to undergo vocational/in plant training of 15 to 20 days duration to get familiar with the working environment.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 2.2

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	4	1	0	0

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
IQAC link	View Document

6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
e-copies of the accreditations and certifications	View Document
Details of Quality assurance initiatives of the institution	View Document

6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)

Response:

The institute was established in 2011 and has been continuously developing in academic and administrative discipline. The institute has good infrastructure, with an eco-friendly atmosphere for the users. The lawns are also well maintained. The institute has well established laboratories and classrooms. The institute possesses a spacious central library and reading room which provides a number of reference books, textbooks, newspapers, magazines and other relevant resources. Recently, departmental library is also established for more access of books. Apart from that, e-books, power point presentations, video lectures (NPTEL) and hand written notes are also provided to the students, which help students in additional knowledge gain. Though our institute is new; students from Electrical, E&TC and CSE departments have secured university ranks ranging from 1 to 10. The campus has separate hostel facility for boys and girls. Students and faculties enjoy hygienic and healthy food through college canteen. Students from remote area can take benefit of the college bus facility. There is a capacious playground for outdoor games. Facilities for indoor games are also made in the campus. Recently well-equipped gymnasium is also open to the students. College has also arranged many zonal and inter-zonal sport events in campus. The institute has faculty appraisal system for improving performance of the staff. The IQAC of the institute is working with an objective of imparting quality culture throughout institution for overall development of teaching learning process.

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 4

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
02	02	00	00	00

File Description

Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

1. Safety and security

Our institute is committed to safety and security of girl students and ladies staff members working in our premises. The surveillance system covering corridors and building premises are installed and currently operational in our institute. Internal Complaints Committee (ICC) looks after benefits and grievances redressal of girl students. A separate girl's hostel is provided by our institute to ensure adequate safety of girl students. Institute follows rules/norms for reservation and maternity benefits for ladies faculties. The responsibilities of examination, cultural activities are equally handled by female faculty members.

2. Counselling

Institute has set up "Utkarsha womens cell" for overall development of girl students and ladies staff members. Under this cell various activities are specially organized for the benefit of staff and students. Hostel committee visits girl's and boy's hostel twice in a semester to spread awareness regarding discipline and anti ragging in students. To provide counselling and support services by the experts. ICC has

organized seminars for students to create awareness in them regarding functioning of ICC and rights of girl students. International women's day is celebrated widely across our institute to boost their moral.

3. Common Room

Separate common room is provided for girl students.

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 00

7.1.3.2 Total annual power requirement (in KWH)

Response: 32436

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document
Any additional information	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 32.23

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 2718

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 8432

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

7.1.5 Waste Management steps including:

- Solid waste management
- Liquid waste management
- E-waste management

Response:**Waste Management Steps by the institution include following:****1. Solid waste management**

The solid waste is collected in dustbins located in different locations throughout the institution. Dustbins of suitable capacities are provided in each cabin, laboratory, office, canteen etc. to facilitate smooth collection. The discarded vegetables from canteen are used for generation of Gobar gas; this activity was carried as a final year project A. Y. 2017-18 by Civil engineering department. As the amount of waste generated in canteen is less; the gas production is currently at slow pace but in future this can become more efficient.

2. Liquid Waste Management –

Waste chemicals in the labs are properly disposed of by dissolving them in water or by keeping them in the protected zones. Waste water from institute is connected to common drainage system for further process, by that way institute tried to avoid pollution caused by waste water.

3. E-Waste management

E-waste is generated in the form of non reparable CPUs, Hard Disks, Monitors; they are used for demonstration to students during practical hours. Mostly old computers and equipment are getting repaired from technician or authorized dealer or used in the lab during experimentation. Refilling of toner and cartridges of printers and maintaining of IT infrastructure is made by an appointed technician who makes reuse of toners and reduces the rate of e-waste generation.

7.1.6 Rain water harvesting structures and utilization in the campus**Response:**

Rainwater harvesting is the accumulation and storage of rainwater for reuse on-site, rather than allowing it to run off. Rain water harvesting system is not currently installed in our institute. We plan to utilize the rain water in an effective and efficeint manner by properly installing the structures. Our college campus is divided in five sections including main building, canteen, workshop, library and hostel facility. Our institute is planning to complete this through project work. Our civil engineering department has prepared model of rain water harvesting for canteen in the campus.

In the current year the installation of rain water harvesting structure will be completed through final year project of Civil Engineering students.

7.1.7 Green Practices

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

With a great vision of our Patron “Vanashree Nanasaheb Mahadik” the Institute has planted different types of trees and always focused towards clean and green campus. The institute is surrounded with lush green lawns, trees and is situated at pollution free village, Peth. Many staff members share their vehicle for daily transportation purpose. Students are encouraged to use public transportation facilities by providing necessary documents. Public transport bus stop is also very near to College campus. Students are motivated not to use plastic in and around campus to make campus plastic free. The institute is known for its lush green, nicely maintained campus. Drip and sprinkler irrigation systems are used for watering, that helps in saving large amount of water. Students are motivated for tree plantation inside as well as outside college campus. In this academic year our first year students have successfully and effectively completed tree plantation activity at Vasantgad – a historic place situated at 30 Km from our institute. Institute building is so designed as to make campus well ventilated and illuminated by natural light. Burning of garbage/waste is prohibited in our college. We are taking efforts to reduce use of papers by implementation of ERP system. Printing of documents; unless necessary, is done on two side papers to reduce use of paper. Our campus is equipped with Pedestrian friendly roads.

File Description	Document
Any additional information	View Document

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 1.39

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
4.0607	4.7992	7.2743	7.2513	0

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: D. At least 2 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
Any additional information	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 20

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	5	5	2	0

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	View Document
Any additional information	View Document

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 9

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	3	1	1

File Description	Document
Any additional information	View Document

7.1.12

Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal / Officials and support staff

Response: Yes

File Description	Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	View Document

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Provide URL of website that displays core values	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations**Response:** Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document

7.1.15 The institution offers a course on Human Values and professional ethics**Response:** Yes

File Description	Document
Any additional information	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions**Response:** Yes

File Description	Document
Any additional information	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years**Response:** 10

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	3	1	0	0

File Description	Document
List of activities conducted for promotion of universal values	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

1. Independence Day (15 August) and Republic Day (26 January)

Institute celebrates numerous national festivals like Independence Day (15 August), Republic Day (26 January), and birth anniversaries of great Indian personalities of King Shivaji, Mahatma Gandhi etc.

2. Ganesh Festival

There is a Celebration of Ganesh Festival with the active participation of each department.

3. Engineers Day (15th September)

Being an Engineering Institute college celebrates Engineers Day on 15th September by inviting well known engineers from field like state electricity board, Engineers from Civil department. On Teachers 5th September, renowned principal and professor from engineering colleges are invited to deliver lecture for teachers as well as students

4. Maharashtra Din (1May)

Maharashtra din i.e. May 1st is celebrated with great zeal

5. Shivjayanti, Jijau Jayanti and National Youth Day

To mark the contribution of these great leaders we celebrate these events. Through inspirational speeches the greatness of such personalities is highlighted in front of staff and students.

6. International Women's Day

To mark the increasing contribution of women in various fields we celebrate International Women's Day in our institute. We arrange programs/lectures showcasing women empowerment.

File Description	Document
Any additional information	View Document

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

Academic and administrative transparency:-

Weekly meetings of head of departments and principal are arranged and the decisions are communicated to all during departmental meetings. Before the start of semester workload and academic calendar are made known to all. The attendance review is taken monthly and defaulters are identified; if required they are counseled by respective mentors. The parameters of internal evaluation are displayed and communicated to all students. The feedback of teaching faculty is made known to individual. Activities in the institute are carried out under surveillance of IQAC and head of institute to maintain transparency.

Financial transparency:-

The institute ensures financial transparency through maintaining and updating all financial records. Financial audit is conducted by Chartered Accountant every year. The decisions of purchasing are done through purchase committee.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Best Practice 1

1. Title : Financial assistance to meritorious students

2. Objective

- To attract the students of higher merit those who brings name and fame to the institute. It is experienced that these schemes have created a healthy competition among the students. As a result of this, the students are consistently acquiring university ranks.

3. The Context-

There are various schemes to offer financial assistance to students which are listed below,

1. Cash reward for the class toppers- A cash prize of Rs.5000/- and certificate. Institute is awarding university First ranker with cash prize of 51,000/- and certificate. Institute is awarding university second to tenth rankers with cash prize of 25,000/- and certificate.
2. Concession in fees- This is offered to the meritorious students belonging to the poorer sections of the society, who otherwise cannot afford engineering education.

4. The Practice

There is a tradition of awarding financial assistance to meritorious students through different schemes. This assistance is in addition to the scholarships given by State Governments under various schemes.

5. Evidence of Success

List of University Rankers who have rewarded by the institution

Academic Year	Name Of Student	Branch	Rank	
2014-2015	Miss Chavan Shital Suresh	Computer Science	8th	78
2015-2016	Miss Jawade Vidya Sunil	Electrical	1st	81
	Miss Maske Kajal Anandrao	Electrical	8th	78
	Miss Mulani Fatima Mahamadhanif	Electronis Telecommunication	&3rd	79
	Mali Ganesh Yashwant	Electronis Telecommunication	&7th	77
2016-2017	Miss Chavan Poonam Vikas	Electronis Telecommunication	&4th	79
	Miss Kapase Nikhita Vijay	Electronis Telecommunication	&6th	78

6. Problems Encountered and Resources Required

This is motivational scheme for students to excel their academic performance. Budgetary provision is required to give cash prizes to university rank holders.

7. Notes

This scheme motivated students to improve the academic performance. The students are benefitted due to this scheme and results are encourageble.

Best Practice 2

1. Title : Concession given to needy students

2. Objective

- To give financial support to needy students for their education.

3. The Context-

- Institute is giving fee concession to the toppers of sister concern organization for taking admission in direct second year of engineering.

- Institute provides installment facility to the students for paying their fees.
- Institute is giving fee concession to the students admitted from sister concern institute for taking admission in direct second year.

4. The Practice

Since last four years, there is a tradition of giving financial support to needy students. This assistance is in addition to the scholarships given by State Governments under various schemes.

5. Evidence of Success

Institute has provided financial support to the students from weak financial background through this initiative. A number of students from rural area needing financial assistance for education are benefitted by the initiative of the institute.

6. Problems Encountered and Resources Required

Needy students get admission in the institute for completion of their education, though financial burden comes on the institute. Student count (admission) gets increased because of this scheme.

7. Notes

Since academic year 2014-2015, institute giving significant amount of concession to the needy students with less financial support from family. Students can concentrate on their studies due to concession given by the institute.

File Description	Document
Any additional information	View Document

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

1. Institute is giving admission to students as per the norms of Maharashtra state government.
2. In comparison to nearby institutions; our institute has more number of students from economically weaker sections of society. We are offering them concession in fees apart from government scholarships.
3. Institute has qualified academic staff and skilled supporting staff who are always available for students.
4. Institute is equipped with well-established labs, central library with numerous copies of standard

- publications, e journals and NPTEL video lectures.
5. Institute offers experiential learning to students through industrial visits.
 6. For holistic development of students, institute organizes guest lecture on personality development, competitive exams, career guidance etc.
 7. Institute is promoting students to participate in various sports and cultural activities. Institute has Sports Department which gives training on number of sports like cricket,volleyball, football, kabaddi, etc.
 8. Kalasartahi Group is an identity of our institution which represents our institute in various cultural events.
 9. Institute has proudly hosted one state level science exhibition to motivate students across the state towards science and technology.
 10. Institute is promoting students to participate in various inter and intra college events & competition, paper presentations conference their by motivating them for doing research and innovation.
 11. Institute has conducted number of workshops, guest lecture on recent trends in the field of science and technology to boost up the knowledge of students towards new technology.

5. CONCLUSION

Additional Information :

The major activities carried by the institute include:-

1. Sports Activities (Shivaji University Kolhapur Under Lead College):

1. The institute has organized Inter-Zonal Women's Hockey Tournament in academic Year 2015-2016.
2. The institute has organized Pro-Kabbadi Tournament under Lead College in academic Year 2015-2016.
3. The institute has organized Inter-Zonal Women's Hockey Tournament in academic Year 2016-2017.
4. The institute has organized Volleyball (Men & Women), Chess (Men & Women) competition Under Lead College in academic Year 2016-2017.
5. Shivaji University Hockey for men combined camp organized (for west Zone hockey tournament) 2016-2017.
6. Shivaji University Hockey for women combined camp organized (for all India hockey tournament) 2016-2017.

2. Maharashtra State Activities:

1. Institute has organized District Level science project Competition (Sponsored by Dept. of School education & sports, Government of Maharashtra) in the year 2014-2015.
2. Institute has organized State Level science project Competition (Sponsored by Maharashtra State Government) academic year 2016-2017.
3. Institute has organized State level Science & Mathematics teacher's workshop(sponsored by Vidhya Pradhikarn Dept., Pune) academic year 2017.
4. Institute has organized Workshop on "Situation Analysis" for teachers (Sponsored by DICPD, Sangli & Government of Maharashtra) academic year 2017.
5. Institute has organized Workshop on "School Leadership & development" for teachers (Sponsored by DICPD, Sangli & Government of Maharashtra) academic year 2017.

3. Institute Level Activities:

1. Institute has celebrated National Sports Day- 29, August & organized chess workshop for students.
2. Institute has conducted Yoga week for students & staffs.

4. Kalasarthi Cell

Under this cell institute enhancing students' special skills like Drama, Dance, Singing, acting etc. The achievements of this this cultural group are as follows-

- has won 1st prize in District level youth festival (Ekankika Competition) in year 2014.
- has won 3rd prize in university level youth festival (Ekankika Competition) in year 2014.
- has won 2nd prize in District Level PNG Karandak (Ekankika Competition) in the year 2016

Concluding Remarks :

Our institute has been started in the year 2011 and we are committed to provide quality education by improving the available resources. The institute is run by Shri. Venkateshwara Shikshan Sanstha. The functioning of the institute is as per rules of AICTE and university norms. Our institute is affiliated to Shivaji University, Kolhapur (for Third and Final year), and to Dr. Babasaheb Ambedkar Technological University, Lonere (for First and Second Year). Four batches of engineers have passed out from the institute and many students are working in various fields. Institute has always focused on the overall development of students for which emphasis is given on various students development programs. For improving teaching – learning process students are encouraged for Field visits/trainings, Industrial visits, Projects and such other activities. Training and placement cell is trying to improve students' employability through training sessions. The students from the institute have also performed well in cultural and sports activities. Our institute has also contributed to society through different activities under NSS. In this competitive environment, the institute is working with a transparent and effective manner and with a view to provide quality education to the students in our region.