Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**G. S. MANDAL'S MARATHWADA INSTITUTE OF TECHNOLOGY**
Name of the head of the Institution	**Dr. Nilesh G. Patil**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02402375111**
Mobile no.	**9028887885**
Registered Email	**principal.mite@mit.asia**
Alternate Email	**nilesh.patil@mit.asia**
Address	**MIT Campus, Satara Village Road, Beed Bypass Road, Aurangabad**
City/Town	**Aurangabad**
State/UT	**Maharashtra**
Pincode	**431010**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. Ajij D. Sayyad**
Phone no/Alternate Phone no.	**02402375115**
Mobile no.	**9175902905**
Registered Email	**vpacad.mite@mit.asia**
Alternate Email	**ajij.sayyad@mit.asia**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://engg.mit.asia/assets/pdf/NAAC/2019-20/AQAR%202018-19%20Report.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://engg.mit.asia/assets/pdf/academic_calendars/Academic%20Calendar%20for%20A%20Y%202019%2020_both%20part.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B+**	**2.68**	**2017**	**30-Oct-2017**	**29-Oct-2022**

6. Date of Establishment of IQAC	**08-Mar-2017**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

International Web Conference on Impact of COVID-19 on Library Resource Sharing	12-Jun-2020 2	3500
NBA SAR preparation and Internal Audit	01-Aug-2019 300	80
Online teaching and learning process	18-Mar-2020 100	2200
Encouragement for submission of funded research project	01-Jul-2019 5	3
Internal academic audit	10-Jan-2020 7	150
One day workshop On Accreditation Process and Documentation regarding NBA preparation	14-Dec-2019 1	50

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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. A. R. Saraf, Mechanical Department, MIT Aurangabad	Assitance for Science and Technology Applications	Rajiv Gandhi Science and Technology Commission, Government of Maharashtra	2020 730	6294681
Dr. A. R. Saraf and Dr. N. G. Patil, Mechanical Department, MIT Aurangabad	TEQUIP-III	Dr. Babasaheb Ambedkar Technological University, Lonere	2020 730	300000
Dr. S. S. Joshi, Mechanical Department, MIT Aurangabad	Financial Support for the Project	Department of Science and Technology, GOI	2020 730	2055900

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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Online Teaching and learning during COVID19 Locking situation

NBA SAR preparation and Internal Audit and One day workshop On "Accreditation Process and Documentation regarding NBA preparation"

International Web Conference on Impact of COVID19 on Library Resource Sharing

Encouragement for submission of funded research project

Timely submission of AQAR and Conduction of meeting

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
To organize the National / International level conference/ STTP to be organized by the department for students and faculty.	**An international Web conferrence titled 'Impact of COVID-19 on Library Resource Sharing' had been successfully conducted in June 2020**
To improve academic excellence by adopting effective teaching practices, involving the teaching Innovations, Practical Demonstration by videos, Improving students contact hours, etc.	**Digital content and e-resources have beed made available through ERP and library management system, Active participation in NPTEL and other MOOC courses by faculty and students are the evidences of improvement. Various pedagogical practices have been adapted during the Lockdown during Covid-19 pandemic situation.**
To increase in plant training and industrial visits for students, starting from first year level.	**Significant improvement in the industry based in plant training and internship numbers**
To improve RnD activities by setting a new research centre.	**Significant involvement of faculties in the research oriented projects and collaborative work. Few proposals have been sent to affiliating University**

To strengthen the international collaboration through research and student development activities	Three major research projects have been granted by state, GOI and an affiliating Universty. About 15 students group have done the project work work in collaboration with GIZ.
To enhance the faculty Industry interaction through industry training and involving the faculty in industry academia faculty/staff exchange programme. To arrange various capacity programs for them through, workshops so as to make them skilled, providing life skills training and emotional intelligence skill training to the teachers so that they will be able read the students for designing their pedagogy/ teaching methodology	Almost all teaching faculty attended and conducted the worshops and faculty development program during the academic year.Number of such training and programms are more than 250.
To start additional Master of Architecture program and B. Voc courses imparting the skill development domain knowledge	M. Arch (Urban Design) and B. Voc Program (Interior Design) courses started from AY 2019-20
To enrich students' capacity through building skill sets expected by industry.	The students participated in various regional and National level competition and championship. They exhibited their learning through the poster presentation, projects and paper presentation. The received the awards and ranking in the respective category.
To enhance the already undergoing Engineering Exploration initiative of the institute	The center offers a multidisciplinary, design thinking driven course to first year students. The course follows Project Based Learning pedagogy. The first edition of the event called annual project exhibition (Jidnyasa) for engineering exploration, was organized during 15th and 16th April, 2019. As a part of a novel course of Engineering Exploration for first year engineering 600 students built 150 innovative products to solve societal problems.
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing Body	25-Sep-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No

16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2020**
Date of Submission	**07-May-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**Institute has deployed Management information System (MIS) which is also known as ERP solution. This system includes the different important modules as described below: • Academics Module: This module takes care of everything that is central to learning, education, and teaching. For example: courses and configuration, syllabus patterns, core elective subjects, different evaluation methods, monitoring, mentoring, projects, practical's, tutorials and many more. Academics are supported with an easy and collaborative Content Management System through which faculty can share educational content, manage projects assignments, handle notifications, conduct quizzes etc. • Teaching Module: It's a wellintegrated module that empowers every faculty with powerful tools that help them efficiently manage their work. These tools include academic calendar, planning, scheduling, course file, mentoring, practicals, projects, timetable and many more. • Examinations Module: The Exam module manages exam related tasks at various levels. The configuration of examination module covers various exam related duties, moderation schemes, result format, exam cycles etc. All exam processes such as question paper setting, question paper disbursement, exam scheduling, invigilation, result compilation, reevaluation, mark sheets generation etc. are duly provisioned for. • Placements Module: Placements module effectively manages the entire campus placement process. It takes care of job postings, walkins, registration of eligible students, placement event handling, career guidance, prescreening, testing and many more. • Research Module: Growth and learning is**

impossible without doing research. It is an important factor for any institute to grow and standout. This module takes care of research projects, Publications, conferences, journals, patents, copyrights, Ph.D. preparation and more. It also records profile of research guides, Synopsis, Thesis, Colloquium and related workflow. Application Form, Admission, Payment of Fees, Course Work, Guide/HOD Review, Expert Allocation, Expert Feedback, Final Assessment. Manage different research funded projects, Research Budget, Grant Approval, Research Project Progress reports, Project Closure, etc. • Human Resources module: Human Resource module is amalgamation of all the recruiting, training, and on boarding related activities. It helps take care of roaster, advertisements, marketing, reservations, applications, etc. • Attendance, Leave Salary module: Attendance is a wholesome module that integrates and automates various attendance keeping methods including muster, attendance entry, login / biometric based, barcode scanning attendance and others. • Infrastructure module: This module maps all physical infrastructures and automates its allocation, utilization, booking etc. This module integrates buildings, rooms, laboratories, hostels, canteens, offices, medical facilities, gaming facilities, reporting and others. • Admissions module: Admissions module effectively manages admission through merit, entrance exam or a government regulated agency. It automates courses, intake for each course, no. of shifts, seat division, eligibility, merit and merit per se, fee structures, revisions, concessions and sponsorship on fee, etc. • Library module: This module takes care of books/journals/CDs/DVDs/magazines management, membership management, catalogue management, Online Public Access Control (OPAC), etc. • Feedback module: This module includes all aspects of feedback including academic specific feedback, Institutional, Departmental, etc. • Other modules include scholarship, transportation, finance, endowment management, investment management, inventory management, purchases, management, etc.

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Institute is affiliated to Dr. B. A. Technological University, Lonere (for First to Third year UG/PG courses of Engineering discipline) and to Dr. B. A. Marathwada University, Aurangabad (for MCA course, higher classes of UG Architecture & Final year UG courses of Engg discipline) in AY 2019-20. Curriculum of each UG/PG course is delivered as per the scheme/syllabus of affiliating University. The institution has developed a structured and effective implementation of the curriculum. Before the commencement of academic year/semester, the college refers the academic calendar to chalk out an institutional academic calendar. Based on this, heads of department (program coordinators) plan for curricular, co-curricular and extra-curricular activities. At department level, the faculty allocation is done democratically through discussion and deliberations among faculties in departmental meetings. After allocation of teaching load as per the cadre ratio, the time table is prepared. It is documented through the time table at different levels like faculty, classroom, laboratory usage, etc. The faculty members are instructed to complete the syllabus within stipulated time. If, for any reason, a faculty fails to finish his/her syllabus within the stipulated time, he/she is being asked to arrange extra classes for his/her subject. The course file which includes syllabus, teaching plan, assessment methods, delivery methods, etc, of every faculty is assessed by the program coordinator. Following are the various means through which curriculum delivery is implemented, administered and its documentation is ensured: (a) HoD meeting: Principal conducts regular meeting to review the engagement of students and progress of curriculum delivery. (b) Faculty meeting: HoD conducts the frequent meeting to collect the feedback of students from faculty and overall performance of students. (c) Academic audit: department level academic audit is conducted to ensure the effective implementation of academic activities (d) continuous internal assessment & evaluation of academic activities like submission of assignments, Class test, projects/ seminars, lab work, etc. are well planned and executed before final semester-end examination. For implementation of curriculum, teachers have included teaching methods such as presentation, assignments, and seminars for effective teaching. (e) Students are encouraged to meet faculty beyond classroom hours for doubt-clearing and curricular discussions. Extra hours are devoted to taking remedial classes to reinforce students' preparedness before University examinations. (f) Parent teacher meetings are conducted at each month end during the instructional period, where progresses of the delivery of curriculum are regularly monitored and necessary course corrections are initiated. Any updates and communications from University in context to curriculum are implemented. Adequate support is provided by Principal and other academic & administrative bodies at institute level. This includes – (a) Institute encourages its faculty members to participate in Orientation/ Refresher Courses/ FDPs / Workshops/Seminars so as to update their knowledge and to improve the teaching practices. (b) Institute provides sufficient books and other teaching/reference materials to enable its teachers to ensure effective delivery of curriculum. (c) Library advisory committee takes appropriate decision regarding purchase of new books, ejournals, etc. as per requirements of students. (d) Department establish MOUs with various industries and institution.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Redhat Certified System Administrator (RHEL-7)	---	10/08/2019	45	Employability	Student get skill set as System Administrator in IT sector
Redhat Certified Engineering (RHEL-7)	---	20/08/2019	45	Employability	Student can configure and troubleshoot the web serever, firewall, mariadb-server, samba, smtp, ipv6.
Red Hat Certified System Administrator -III Linux Automation (RHEL 8)	---	02/10/2019	45	Employability	Students will learn how to install and configure Ansible on a management workstation and prepare managed hosts for automation.
Redhat Certified OPenshift Administrator (DO280)	---	10/08/2019	45	Employability	Cloud management and deployment using OPenshift
AWS Certified Cloud Practitioner	---	06/08/2019	45	Entrepreneurship	AWS Cloud Practitoner
Ansible Automation (DO407)	---	30/08/2019	45	Employability	Students can automate Linux Server present in bare-metal system, remote virtual machine, and Cloud System.

1.2 – Academic Flexibility		

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
MArch	Urban Design	01/07/2019
BVoc	Interior Design	01/07/2019
	View File	

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Civil Engineering	01/07/2019
BTech	Computer Science and Engineering	01/07/2019
BTech	Electrical and Electronics Engineering	01/07/2019
BTech	Electronics and Telecommunication Engineering	01/07/2019
BTech	Mechanical Engineering	01/07/2019
BArch	Architecture	01/07/2019
BVoc	Software Development	01/07/2019
MCA	Computer Applications	01/07/2019
Mtech	Embedded Systems	01/07/2019
Mtech	Electrical Drives and Control	01/07/2019
Mtech	Structural Engineering	01/07/2019
Mtech	Automation	01/07/2019
Mtech	Heat Transfer	01/07/2019
Mtech	Manufacturing Engineering	01/07/2019
Mtech	Computer Science and Engineering	01/07/2019
BVoc	Interior Design	01/07/2019
MArch	Urban Design	01/07/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	176	Nil

1.3 – Curriculum Enrichment		

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Smart Skill Architectural Software Courses	01/03/2019	17

Redhat Certified System Administrator (RHEL-7)	08/10/2019	46
Redhat Certified Engineering (RHEL-7)	20/08/2019	6
Red Hat Certified System Administrator -III Linux Automation (RHEL-8)	02/10/2019	12
Redhat Certified OPenshift Administrator (DO280)	08/10/2019	12
Ansible Automation (DO407)	30/08/2019	11
AWS Certified Cloud Practitioner	06/08/2019	32
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BArch	Architecture	69
BTech	Civil Engineering	129
BTech	Computer Science and Engineering	161
BTech	Electrical Engineering	129
BTech	Electronics & Telecommunication Engineering	13
BTech	Mechanical Engineering	119
MCA	Computer Applications	22
	[View File](#)	

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
1. Feedback from students: Feedback is collected for all the courses. Feedback of students is collected in every semester about the quality of teaching. This helps improving the teaching learning process. A well defined feedback collection system and corrective measures improves the quality of education. Each department collects feedback from their students. Head of the Department and Committee assesses the feedback, shares the contents with each faculty

member, accordingly the appreciation letter is issued whose feedback is good, and otherwise a counselling of the teacher is carried out. Appropriate weightage is given to feedback by students in the annual appraisal system. In addition to this feedback at the end of the semester, department also collects formal and informal feedback of the students during mid of the course. It helps in addressing the challenges about teaching learning of the specific course(s). Majority of the students participate in the feedback process. Feedback is based on following parameters: • Preparedness, knowledge of the course and command over the course • Delivering the fundamental concepts, black/white board writing and communication skills • Ability to make the class interactive and lively • Preparing the students for desired course outcomes The feedback of all the teachers is taken on the scale of 5, total score of the teacher is calculated on all the above mentioned parameters and based on chosen scale by the individual student and the total score is converted into percentage score. Average of all the percentage scores for all the students who have participated in the feedback process is calculated. Such a score is calculated in each semester. Total of the average scores of the teacher is calculated and accordingly action is taken. Feedback on Institutional facilities is taken from the students at the end of semester/ academic year by each department HODs collectively submit them to Vice Principal Administration. Based on analysis, corrective measures are taken by administration. 2. Feedback from Teachers: Generally Teacher's feedback is taken in HOD meeting regarding over all class behaviour, student understanding, requirement of extra lectures etc. and accordingly corrective action is taken. 3. Feedback from Employers: During inplant training or after employment of student, we do interact with employers (particularly from Aurangabad) and register their opinion. It is utilized for reinforcement of system. 4. Feedback from Alumni: Alumni feedback is collected as and when alumni visit to the department. The feedback is set of questions pertaining to the program offered by the department. Also suggestions are invited for improvement in courses, curriculum, infrastructure, etc. Alumni feedback plays a vital role in department development, as they are the witness of internal system and working in outside world. Their free and frank opinion helps to take corrective action in present system and do value addition for better future. 5. Parents: Feedback of parents are taken during monthly parent meet. It helps to know the parents expectations from the Institute.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	Structural Engineering	18	8	8
MArch	Urban Design	20	14	14
MCA	Computer Applications	60	7	7
BArch	Architecture	40	24	24
BVoc	Interior Design	25	15	15
BTech	Mechanical Engineering	180	41	41
BTech	Electronics and Telecommunicati	120	6	6

BTech	Electrical Engineering	60	20	20
	on Engineering			
BTech	Electrical Engineering	60	20	20
BTech	Computer Science and Engineering	120	124	124
BTech	Civil Engineering	120	38	38
View File				

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	2120	108	118	24	22

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
164	164	11	21	12	10
View File of ICT Tools and resources					
View File of E-resources and techniques used					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

MIT always attempt for the environment, where individual student is in contact with his/her mentor. To strengthen the bond between teacher and the students, various systems are practiced. Effective mentoring establishes healthy relationship between mentor and the students, which also improves the academic quality. The effectiveness of the system is achieved through Mentoring by Teacher Guardian (TG) and Class Teacher (CT). Teacher Guardian Scheme: The purpose of Teacher Guardian Scheme (TGS) is to support and encourage students to manage their learning to maximize their potential, develop skills and improve the performance. TGS is introduced to develop personal touch to the process of learning at the institute. A teacher will be guardian of a group of 20 to 30 students. In addition, to act as a guardian, the teacher guardian shall help the students to nurture the personality of students in all aspects. The teacher guardians are also available to overcome different types of difficulties by providing family like environment. The support of the mentor and their advice can help to lower working stress and build confidence. Besides, the parents can be assured that their wards are under supervision and guidance. Objectives of TGS scheme: • To encourage the student to attend classes and practical sessions regularly • To develop discipline in routine activities and to monitor academic performance of the students • To encourage the student to participate in cocurricular and extracurricular activities • To help students to cope with any difficulties in learning Implementation Process • One teacher is nominated as 'Teacher Guardian' for 20 to 30 students. • Teacher guardian maintains all the information of the students such as their attendance, academic performance etc. and also monitors them. • Formal and informal interactions happen between TG and concern students. • In case of non performance by the students, TG communicates with the parent and discusses with them the possible measures to improve the student's performance. • Parents also can contact the TG or Class Teacher to keep the track record of their ward. • After completion of semester, compiled report of meeting, attendance and the points discussed in the meeting is submitted to the department's teacher guardian coordinator. • Thus, TG tries to understand and provide solutions (in some cases) to the

personal problems of students. Class Teacher Scheme Each division has a class teacher. The Class Teacher holds the complete responsibility of their class for the academic year. Class Teacher is one of the course teachers of the same class. They maintain the records of their students like attendance, personal information, etc. They also look after the overall discipline and academic performance of the students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2228	164	1:14

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
153	179	Nill	25	33

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Nilesh G. Patil	Principal	Associate Dean, Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad
2020	Dr. Ajij D. Sayyad	Vice Principal	Reseach Supervisor in Electronics and Telecommunication Engg, Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad
2019	Dr. Sunita M. Badave	Professor	Member, Board of Studies, Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad
2020	Dr. Mazhar S. Khan	Assistant Professor	PhD Degree, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra
2020	Ar. Pranita Pranjale	Associate Professor	Silver Medal, NPTEL-SWAYAM Online Course
2020	Ar. Deepali Hejib	Assistant Professor	Gold Medal and Silver Medal, NPTEL-SWAYAM Online

Year	Name	Designation	Course
			Course
2020	Ar. Deepali Hejib	Assistant Professor	Discipline stars, Motivated Learner, GRIHA certified Professional
2019	Dr. Manish S. Dixit	Associate Professor	Reseach Supervisor in Civil Engg, Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad
2019	Dr. Shaikh Ashed Parvez	Assistant Professor	REDHAT International Certification
2020	Dr. Prashant L. Chintal	Assistant Professor	PhD Degree, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra
			[View File](#)

2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
Mtech	Mechanical, Civil, CSE, Electrical, ETC	May June 2019	30/06/2020	30/09/2020
MArch	First year Mtech courses	May June 2019	30/06/2020	30/09/2020
MCA	Computer Application	May June 2019	30/10/2020	01/12/2020
BE	Final Year B. E. Mechanical, Civil, CSE, Electrical, ETC	May June 2019	30/10/2020	18/12/2020
BVoc	Software Development	May June 2019	30/06/2020	30/09/2020
BArch	Architecture	May June 2019	30/10/2020	01/12/2020
BTech	FY to TY B. Tech courses Mechanical, Civil, CSE, Electrical, ETC	May June 2019	30/06/2020	30/09/2020
		[View File](#)		

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institution has continuous assessment examination (CAE) /evaluation system in place wherein as per the guidelines of an affiliating University. Minimum two class tests (for second year and onwards student) and one online MCQs based mid-semester examination is conducted which carries 20 weight-age in grading/total evaluation. CAE answer sheets are shown to students and grievances if any are sorted out immediately. A committee is constituted which includes subject teacher, subject experts and head of department. This committee looks after the grievances of the students regarding evaluation. Term work evaluation includes four to five parameters based assessment by the subject teachers. End semester examinations (ESE) are conducted during the semester according to academic calendar. As per the Dr. B. A. T. University, Lonere, Remedial examination is conducted within one month after the declaration of ESE result. Question paper audit is done. Regular periodic tests are conducted. The result of these tests are analysed based on the marks received by the students in ranges 0 to 11, 12 to 16, 17 and above, on a scale of 20 marks. Each faculty discusses the expected solution of the paper and explains the solution for each question to the class. An open house is conducted after each test, to solve the grievances of the students. In the TGS session, students report to their mentor and counselling is provided to the students. The same practice is repeated after each continuous assessment test. Continuous Assessment in laboratory : Continuous assessment is carried out for assessment of laboratory work. The assessment is done on regular basis in the lab sessions to evaluate the experimental performance, laboratory records maintained by the individual students, and their understanding of the experiment. Neatness of the laboratory record work (journal file) is also given weightage in the assessment. The assessment process used to evaluate course outcome is comprised of two components namely, assessment through direct attainment and assessment through indirect attainment. Internal assessment and external assessment are the two ways used for calculating direct attainment whereas course end survey (taken at the end of each semester) is used for calculating the indirect attainment. Internal assessment tools used for direct attainment are 'Class tests' and 'Term work'. Three Class tests based on the course syllabus designed by the university are conducted during a semester. The format of class test question paper clearly presents the cognitive levels and the COs that are addressed by the particular question. The term work which is a continuous assessment of the students' performance is awarded on four components listed below. • Attendance in practical • Individual / group performance of the experiment • Presentation of the lab report • Assessment by the teacher based on few review questions on respective practical

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Institute is affiliated to Dr. B. A. Technological University, Lonere (for First to Third year UG/PG courses of Engineering disciplines) and to Dr. B. A. Marathwada University, Aurangabad (for MCA course, Higher Classes og UG Architecture course and Final year UG courses of Engineering disciplines) in AY 201819. Curriculum of each UG/PG course is delivered as per the scheme and syllabus of affiliated University. Before the commencement of academic year/semester, the college refers the academic calendar to chalk out an institutional academic calendar. The departments in the institute starts planning for the next semester at the end of previous semester. Subjects are allocated to faculties before summer/winter break so as to provide sufficient time for preparartion. The course coordinator finalises the Cos, COPO mapping, relevant assessment tools, delivery methods, etc before the commencement of new semester. The class teacher compiles the schedule for conduct of assessment tools in coordination with all course coordinators and institute and university academic calendar. The student association coordinators and faculty coordinators prepare the co curriclar and extra curricular activity schedule.

In this manner, after combining both the schedules, a department academic calendar is prepared and displayed. Adherence to the academic calendar in monitored on regular basis by Head of the department.The Academic Calendar prepared at the start of academic year 2019-20 that serves as an information source and planning document for students, faculty, staff and departments, as well as outside organizations. The calendar includes registration dates, class start dates, add/drop deadlines, exam dates and more. Structure of examination scheme for a course is specified in the curriculum. All the teachers follows the same and all sorts of internal and external assessment and evaluation are mapped to this scheme. Mid Semester Examination in each semester is conducted for maximum 20 marks. The score obtained in the said test is considered for 20 marks as continuous assessment performance. Continuous Assessment tools (Theory) like, Class test, Tutorials, Assignments, are considered to assess course outcome and overall performance is calculated for 20 marks. Continuous Assessment (Practical/Laboratory), the assessment is done through judgment of the performance of a student in conduction of each experiment of 10 marks. The score obtained in the said laboratory experiments is considered for 60 marks. Practical Oral Examination (ESEPr.), students' performance in external examination like Viva voce (Practical), Practical work (Sessional) is treated for 40 marks. The Course Outcome of respective subjects is drawn after summation of these two performances by performing cumulative assessment. The record of the performance of students in internal assessment with respect to COs is prepared and maintained.

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 in website of the institution (to provide the weblink)

https://engg.mit.asia

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
B. E.	BE	Mechanical Engineering	193	150	77
B. E.	BE	Electronics and elecommunication Engineering	26	26	100
B. E.	BE	Electrical Engineering	59	59	100
B. E.	BE	Computer Science and Engineering	63	63	100
B. E.	BE	Civil Engineering	59	33	56
B. Arch	BArch	Architecture	33	33	100
M.Tech	Mtech	Structural Engineering	5	5	100
M.Tech	Mtech	Electrical	3	3	100

M.Tech	Mtech	Embedded Systems	2	2	100
MCA	MCA	Computer Applications	22	22	100
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

 https://engg.mit.asia/assets/pdf/NAAC/2019-20/NAAC_Student_Satisfaction_Survey.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Total	730	As Above	86.65	69.1
International Projects	730	Department of Science and Technology, GOI	20.55	15.95
Projects sponsored by the University	730	Dr. Babasaheb Ambedkar Technological University, Lonere	3	3
Industry sponsored Projects	320	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	0.15	0.15
Major Projects	730	Rajiv Gandhi Science and Technology Commission, Government of Maharashtra	62.94	50
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Five Days hands on training on, Design and Testing of Three Phase Distribution Transformers	Electrical Engineering	19/10/2019

Student Solar Ambassadors Workshop	Electrical Engineering	02/10/2019
Expert Talk on – Power System Analysis-Relay Co-ordination using ETAP-EcoPower Solutions Aurangabad	Electrical Engineering	21/09/2019
Expert talk on –Behaviour of Passive components, Technical Consultant	Electrical Engineering	26/09/2019
Expert Talk- Innovation Creativity	Electrical Engineering	12/10/2019
Expert Talk on – Installation of Solar PV System	Electrical Engineering	08/03/2020
Expert Talk on – Electrical Accidents Safety in the Field, MSETCL	Electrical Engineering	11/03/2020
Three days' workshop on "Advances in Geotechnical Engineering and reliability of structures"	Civil Engineering	03/10/2019
Guest Lecture Conducted at MIT CIDCO on career opportunities in Open Source Technology	Computer Science and Engineering	18/09/2019
Three Days Hands on Training to Final Year CSE Students on RHCSA Course contents	Computer Science and Engineering	16/07/2019
A workshop on "Basics of Python Programming	Electronics and Telecommunication Engineering	20/07/2019
One day workshop on "Satellite Training Program	Electronics and Telecommunication Engineering	18/09/2019
One day Techincal Quiz Competition	Civil Engineering	08/02/2020
E-Technical Paper Presentation Competition	Civil Engineering	23/04/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Project entitled Smart Traffic	Mr. Harsh Pardeshi and team of BTech CSE	APEX 2020 Hackathon , a National Level Innovation and Design contest organised at Sandip	24/02/2020	Second position and won cash prize of Rs.15, 000/- at APEX 2020 Hackathon

		Institute of Technology and Research Center ,Nashik			
Annual NASA design Competition (ANDC) by NASA India	Dept. of Architecture, MIT	NASA India	17/03/2020	Selected in first 60 entries from all over India (Trophy by NASA India)
Paper Presentation Competition on Energy Storage Devices organized by CMIA Aurangabad	Mr. Ganesh Shelke and Mr. Hrushabh Jadhav	CMIA, Aurangabad	11/02/2020	First Prize
Paper Presentation Competition on Energy Storage Devices organized by CMIA Aurangabad	Mr. Akshay Samal and Mr. Sanket Salve	CMIA, Aurangabad	11/02/2020	Third Prize
Project entitled Smart Traffic	Mr. Harsh Pardeshi and team of BTech CSE	G. H. Raisoni College of Engineering, Pune	14/02/2020	First position in Eureka Hackathon 3.0, a National Level Innovation and Design contest
Detection Of Artificially Ripened Fruits Using Convolution Neural Network	Ms. Aarti Latkar	Babasaheb Ambedkar Technological University, Lonere	19/10/2019	First Prize for Poster presentation at the inter-university research competiresearch competition 'Avishkar 2019'
Removing Ambiguity From English Sentences Using Sanskrit By Panini	Mr. Shivam Lakade	Babasaheb Ambedkar Technological University, Lonere	19/10/2019	Second Prize for Poster presentation at the inter-university research competiresearch competition 'Avishkar 2019'
Energy Conservation Management	G.S Mandals MIT, Aurangabad	Maharashtra Energy Development Agency (A Government of	27/01/2020	Second Position in Educational Research Institute

		Maharashtra Institution)		Sector

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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Nil	Nil	Nill

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Electronics and Telecommunication Engineering	1
Computer Application	2

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Civil Engineering	4	5.52
International	Civil Engineering	2	0
International	Computer Science and Engineering	2	0.52
International	Electrical Engineering	5	0.81
International	Electronics and Telecommunication Engineering	11	0
International	Mechanical Engineering	10	7.48
International	Computer Applications	1	0
International	Basic Sciences and Humanities	6	0.50

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Basic Sciences and Humanities	1
Computer Science and Engineering	3
Civil Engineering	2
Architecture	1

Computer Applications	1

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Microwave dielectric relaxation polarizati on study of binary mixture of methylethy lketone with nitro benzeneon some thermo physical properties of Binary Mixtures	Aruna P. Maharolkar	Bulletin of the Chemical Society of Ethiopia	2019	1	Marathwada	Nill
Travelling Salesman Problem: A Review on Optimizati on Techniques and Genetic Algorithm	Pranita V. Mane, Dr. Sunita M. Badave	Journal of Power E lectronics Power Systems	2019	0	MIT Aurangabad (MS)	Nill
Hardware Implementa tion of No n-isolated Sextuple Output Hybrid Converter	Harshal D. Vaidya, Dr. S. M. Badave, Ruchita P. Dahad	Internat ional Journal of Engineerin g Trends and Technology (IJETT)	2019	0	MIT, Aur angabad, M aharashtra	Nill
Role of cutting fluids under minimum quantity l ubrication : An exper imental in vestigatio	Shrikant U Gunjal, Sudarshan B Sanap, Nilesh G Patil	Materials Today: Pro ceedings	2020	3	Marathwada	3

Title	Authors	Journal	Year		Affiliation	
n of chip thickness						
Experimental and Computational Evaluation of Pressure Drop and Heat Transfer Characteristics in Rectangular Channel with Helix Grooved Profile Pin Fins	Subhash Lahane, AV Gadekar	Advances in Energy Research, Springer Proceedings in Energy	2020	0	Marathwada	Nill
Seismic Performance of RC Building Using Precast Large Panel Walls	Rashmi Salve, Mohammed Ishtiyaque, Ravindra Bansode	Recent Trends in Civil Engineering Technology	2019	0	Marathwada Institute of Technology, Aurangabad	Nill
Flooding of Urban Drainage Systems: Risk Analysis Study.	Ajay Ratnaparkhi, Yogesh Shermale	Journal of Water Resourcec Engineering and Management	2019	0	Marathwada Institute of Technology, Aurangabad	Nill
Nano-additives in concrete: Present scenario and challenges	Anagha D. Satbhai, Dr.M.N. Mangulkar, Dr.B.G. Thoksha	Recent Trends in Civil Engineering Technology	2019	0	Marathwada Institute of Technology, Aurangabad	Nill
Testing reliable-AODV for mobile ad-hoc network using test-bed architecture	Mazher Sarfaraz Khan, Sayyad Ajij D.	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	0	Marathwada Institute of Technology, Aurangabad	Nill
Application Framework	Mohammed Zakee Ahmed and	International Journal of	2019	0	MIT, Aurangabad, Maharashtra	Nill

Development for Algorithm Design of PAPR Reduction in OFDM	Ajij D. Sayyad	Engineering and Advanced Technology (IJEAT)				

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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
An Efficient Quality Inspection of Food Products Using Neural Network Classification	SSE Ali, SA Dildar	Journal of Intelligent Systems	2019	Nill	1	MIT Aurangabad
Microwave dielectric relaxation polarization study of binary mixture of methylethylketone with nitro benzene	Aruna P. Maharolkar	Bulletin of the Chemical Society of Ethiopia	2019	Nill	1	MIT Aurangabad
Experimental Studies In Finite Element Model Updating of Vibro-Acoustic Cavities Using Coupled Modal Data and FRFs.	Dipak V Nehete	Applied Acoustics	2019	2	2	MIT Aurangabad
Experimental Investigation of Waste Heat	Subhash V Lahane	Advances in Materials and Manufacturing En	2020	8	Nill	MIT Aurangabad

Recovery from Exhaust of Four-Stroke Diesel Engine Using Specifically Manufactured Heat Exchanger		gineering				
Experimental Investigation of Effect of Preheating of Air and Exhaust Gas Recirculation on Four Stroke Diesel Engine	Subhash V Lahane	IOP Conference Series: Materials Science and Engineering.	2020	8	Nill	MIT Aurangabad
Improving the usability of biodiesel blend in low heat rejection diesel engine through combustion, performance and emission analysis	Subhash V LahaneV LahaneSubhash V Lahane	Renewable Energy	2020	8	2	MIT Aurangabad
Role of Cutting Fluids Under Minimum Quantity Lubrication : An Experimental Investigation of Chip Thickness	Nilesh G Patil	Materials Today	2020	12	2	MIT Aurangabad
Drilling	Nilesh G	IJITEE	2020	12	Nill	MIT

						Aurangabad
of Ceramic Rainforced Aluminium Matrix Composite Under Minimum Quantity Lubrication Using Biocutting Fluid	Patil					
Drilling of Ceramic Rainforced Aluminium Matrix Composite Under Dry Condition	Nilesh G Patil	IJITEE	2020	12	Nill	MIT Aurangabad
Study of analysis of improved active power filter with power quality features	Mohini Bhadikar, Dr. S. M. Badave, Ruchita P. Dahad	IJAEMA journal (Approved by UGC CARE SCOPUS INDEXED)	2020	3	Nill	MIT Aurangabad

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	9	157	7	4
Presented papers	5	Nill	Nill	Nill
Resource persons	3	1	1	6

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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Water Cup work at Chincholi (Nakib), Tal: Phulambri, Dist. Aurangabad. Dated: 01/05/2019	Marathwada Institute of Technology, Aurangabad Water Cup Pani Foundation	2	40

International Yoga Day Dated: 21/06/2019	Marathwada Institute of Technology, Aurangabad Bhartiya Yog Sansthan	2	20
Cleanliness drive at Daulatabad fort , Aurangabad Dated: 28/06/2019	Marathwada Institute of Technology, Aurangabad - Dr. BAM Universiy, Aurangabad (M.S.)	1	22
The tree Plantation Program Dated: 09/07/2019	Marathwada Institute of Technology, Aurangabad - Dr. BAM Universiy, Aurangabad (M.S.)	1	20
Anti Tobacco Mission pledge Dated: 11/07/2019	Marathwada Institute of Technology, Aurangabad - Dr. BAM Universiy, Aurangabad (M.S.)	3	150
Pandhapur Vari (Nirmal Vari) Dated: 12/07/2019	Marathwada Institute of Technology, Aurangabad - Dr. BAM Universiy, Aurangabad (M.S.) Sahyog Foundation	2	22
Student Excellence and Learning Program Dated: 22/07/2019 to 27/07/2019	Marathwada Institute of Technology, Aurangabad - Dr. BAM Universiy, Aurangabad (M.S.) Art of Living, Aurangabad Chapter	2	50
KARGIL Diwas Cele bration at Aurangabad Dated: 23/07/2019	Marathwada Institute of Technology, Aurangabad - Dr. BAM Universiy, Aurangabad (M.S.)	1	10
Tree Plantation Program at Padegaon , Aurangabad Dated: 08/08/2019	Marathwada Institute of Technology, Aurangabad - Dr. BAM Universiy, Aurangabad (M.S.)	3	44
Water Conference (Jal Parishad) at MGM Aurangabad Dated: 24/08/2019	Marathwada Institute of Technology, Aurangabad - Dr.	1	11

to 25/08/2019	BAM Universiy, Aurangabad (M.S.)		
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Appreciation for conduction of blood donation camp dated: 18/10/2020	Memento (Smruti Chinha) have been received as an appreciation	Govt. Medical Hospital, Aurangabad	78
Pandhapur Vari (Nirmal Vari)	Memento/Certificate (Smruti Chinha) have been received as an appreciation	Sahyog Foundation, Aurangabad	22
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NSS – Special Camp	Marathwada Institute of Technology, Aurangabad – Dr. BAM Universiy, Aurangabad (M.S.)	NSS Special Camp by theme Rural Development through water conservation at Khandewadi, Tq. Paithan, Dist. Aurangabad dated: 24 Feb. 2020 to 1 March 2020	7	50
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Research Project	cllaboration with Aston University, UK	Department of Science and Technology, GOI	730
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact	Duration From	Duration To	Participant

details					
Student Internship	16 Weeks Internship At Architectural Firm/Office	Architectural Firm and Offices	01/01/2020	30/04/2020	69
Industrial Field Training	Winter Inplant training	Industry	22/12/2019	05/01/2020	64
Industrial Field Training	Summer Inplant training	Industry	15/06/2020	30/06/2020	250
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Saptashrungi Industries (Mfg.of Modular Furniture), Aurangabad	17/05/2020	Curriculum requirement for On Job Training	15
SWAPNA SHILP	17/05/2020	Curriculum requirement for On Job Training	15
Adiurja Pvt Ltd, Jalgaon Road T-21/3, Software Technology Park of India, MIDC, Chikalthana, Aurangabad	05/03/2020	Contribution in curriculum design, Industrial Visits, Skill development Programs, Guest Lectures, FDP, Placement	130
Rubicon Skill Development Pvt. Ltd, Pune	30/01/2020	Training Students in Rubicon Campus to corporate Program	50
Maharashtra Centre for Entrepreneurship Development , Aurangabad	01/11/2019	To enrich collaboration and cooperation between institute to promote for effective use of resources	20
AWS Academy	29/07/2019	To provide detailed overview of Cloud Concepts, AWS core services, architecture,pricing and support	419
360DIGITMG	03/06/2020	To provide training on emerging	419

		technologies to the deserved/interested students of MIT	
Infosys Campus Connect	11/05/2019	To enhance the quality of educational experience of students	419
Synchro-Serve Private Ltd	13/08/2019	Skill Set On-Job-Training for the Same-B.Voc.-First Year	46
Ruby Solar World, Plot no. 34, Near Naik Nagar, Surya Lawns, Beed By pass Road, Auranagabd	05/03/2020	Contribution in curriculum design, Industrial Visits, Skill development Programs, Guest Lectures, FDP, Placement	130

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
355.03	116.29

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Newly Added
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Newly Added
Video Centre	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Others	Newly Added

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS	Nature of automation (fully	Version	Year of automation

software	or patially)		
ERP	Fully	Newly purchased in 2019	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	50094	12636945	265	180962	50359	12817907
Reference Books	9093	6819750	Nill	Nill	9093	6819750
e-Books	363	215953	Nill	Nill	363	215953
Journals	68	69470	84	21221	152	90691
e-Journals	1675	1722899	830	732521	2505	2455420
Digital Database	7035	69000	Nill	Nill	7035	69000
CD & Video	611	191689	Nill	Nill	611	191689

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Ar. Deepali Hejib	Materials and Technology	Moodle	01/08/2019
Gauri Karanjgaokar	Measurement of partial discharges	Youtube	16/04/2020
Gauri Karanjgaokar	Dielectric loss and its measurement	Youtube	17/04/2020
Gauri Karanjgaokar	Transformer Design: Design of LV windings, HV windings, Core Dimensions	Youtube	06/04/2020
Gauri Karanjgaokar	Transformer Design: Tank Design	Youtube	15/04/2020
Arjun Kardile	Numerical Differentiation using Newtons forward difference interpolation polynomial	Youtube	22/03/2020
Dr. Radhakrishna Naik	Machine Learning	erp.mit.asia	30/07/2020
Dr. Arti A. Mohanpurkar	Database Systems	erp.mit.asia	30/07/2020

All Faculty members	Class Test, Mid-Semster Examination, Course file, etc	Institute ERP	30/07/2020

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	835	26	400	2	1	5	8	1000	9
Added	55	1	38	0	1	0	0	0	0
Total	890	27	438	2	2	5	8	1000	9

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1000 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Prof. Kuldeep K.Bhatia	https://youtu.be/Lr-bGt6NPdY
Prof. Kuldeep K. Bhatia	https://youtu.be/_3bk7Ee4J7Q
Prof. Leena Aphale	https://youtu.be/F9If-S5aluU
Prof. Leena Aphale	https://youtu.be/0Jrp9F6T-R4
Prof. Deepali K .Hejib	https://www.youtube.com/watch?v=X8jcicqOAaI&t=45s
Prof. Deepali K .Hejib	https://ardeepali8.gnomio.com/course/view.php?id=3
Prof. Vinaya Vaidya	https://www.youtube.com/watch?v=r64L7o9XHX8&t=152s
Prof. Shilpa Avinash Sanap	https://www.youtube.com/channel/UCEYDzp0q5WfufvGRajkd8dg
Prof. Shilpa Avinash Sanap	http://shilpasanap.wordpress.com/
Prof. Dr. Arti Mohanpurkar	https://www.youtube.com/watch?v=UUBlV7OHink
Prof. Sanket Rameshwar Milke	srmmit.gnomio.com
Prof. Sanket Rameshwar Milke	https://sanketmilke.wordpress.com/
Prof. Swati Jaipurkar	https://studio.youtube.com/channel/UCzCv2xZx40FnQyFeSi8VDQg

Prof. Ravindra Patil	https://youtu.be/eIWYQZhrbQ8
Prof. Ravindra Patil	https://youtu.be/uKhg9iB-9i8
Prof. Parmeetkaur Gill	https://p2cloud.gnomio.com/
Prof. Pramod Narayan Suryawanshi	https://youtu.be/o1hDehCEdUI
Prof. Ms.Mandakini M.Ganeshwade	https://www.youtube.com/channel/UCsGUW4cI0p75brJ6MZH94Ww/about
Prof. Ms.Mandakini M.Ganeshwade	https://mandakininptel.wordpress.com/
Prof. Priyanka Sonwane	https://www.youtube.com/watch?v=YbZMO1eFzmw&t=1s
Prof. Priyanka Sonwane	https://www.youtube.com/watch?v=POxXBkht9hQ&t=3s
Prof. Sushma D. ghode	https://www.youtube.com/watch?v=lQdkautO188
Prof Archana Gumte	https://www.youtube.com/watch?v=s0ThzcCL2uI
Prof Archana Gumte	https://www.youtube.com/watch?v=I0lF2PADm38
Prof Archana Gumte	https://www.youtube.com/watch?v=sEulFH6cDus
Prof Archana Gumte	https://www.youtube.com/watch?v=bOpSrcW3HbU

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
865	522	55	56

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The total infrastructure required for the Library, Sports, gymkhana, hostel, research facility and other support systems is well planned and implemented at Central level. Whereas, the infrastructure required at various department including the laboratories, offices, classrooms, administrative support are developed at the Institute level. The following are few policies and procedures followed at the Institute: Laboratory maintenance: The laboratory cleanliness is done by the concerned supporting staff of departments. Regular maintenance is maintained by lab technicians and supervised by HODs of the concerned departments. Other measures to maintain laboratories are as follows: 1. The calibration, repairing and maintenance of sophisticated lab equipments are done

by the technicians of related agency / owner enterprises. Maintenance of Computers (Hardware Software) and Networking: Computer maintenance involves keeping a computer in a good state of repair and physical health. It involves a set of maintenance tasks and procedures that help to keep the computer software and hardware updated and operational. In our institute whoever there is maintenance issue arises then following procedure is adopted: 1. Respective owner logs maintenance request to Head of Department/Section Incharge. Library utilization and maintenance: The text books and reference book purchase is done as per the demand of students and recommendation of faculty. The list of books is taken from the concerned departments and HoDs are involved in the process. The finalized list of required books is duly approved and signed by the Principal. Sports: 1. Maintenance of indoor Badminton/ Volley Ball court / TT Courts /Gymnasium in the campus through the dedicated physical director. 2. The sports department is very active and encourages students to participate in various sports activities, along with training and coordinating various sports in the college. Academic infrastructure facilities: The administrative officer is monitoring the maintenance of academic infrastructure facilities like classrooms, drinking water, gardening, etc. 1. Institute has a dedicated team of to maintain and upkeep of infrastructure. At the departmental level, HoDs submit their requirements to the Principal regarding classroom furniture and other. Institute development fund is utilized for maintenance and minor repair of furniture and other electrical equipment. 2. Cleanliness of physical infrastructure and maintaining the green landscape is taken care by dedicated agency under the supervision of administrative officer. Maintenance of Transformer/ Generator/ Distribution Box: 1. We put the office note with justification to competent authority i.e. through HOD, Principal and Director General. After approval the office note, we put the requirement to the store by filling the form no.16. After procurement of the spares from store, we carry out the maintenance through our maintenance staff and we avoid the breakdown of the equipment. Others: 1. Security agency for the round the clock security of the infrastructure. 2. Day to day maintenance ensured by the supporting nonteaching staff. 3. Fire extinguishers have been installed at identified locations 4. CCTV installation at prominent places 5. Campuswide Networking WiFi Details are provided on weblink provided below.

https://engg.mit.asia/assets/pdf/NAAC/2019-20/institute_polices.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Earn and Learn Scheme	3	45000
Financial Support from Other Sources			
a) National	1) Govt. of India Scholarship, 2) 2) Merit Cum Means (C-Minority)	902	54245586
b)International	0	Nill	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability	Date of implemetation	Number of students	Agencies involved

enhancement scheme		enrolled	
Discipline and Personality Development	14/08/2019	27	ETC Department
How to improve Communication skills	16/09/2019	25	ETC Department
Soft Skill Development	17/08/2019	397	CSE Department
Soft Skill Development	13/07/2019	397	CSE Department
Stress Management,Yoga ,Meditation	01/02/2020	397	Dr.U.B.Kalwane, Civil Engineering
Life Skill (Financial Management)	18/07/2020	397	CSE Department
Emotional Intelligence (Stress Management)	18/07/2019	397	CSE Department
Aptitude and Soft Skills Training	09/07/2019	85	Profound, Pune
Ready Engineer Program	15/07/2019	50	Tata Technologies Limited
Teacher Guardian Scheme (Student Mentoring)	01/07/2019	2100	Teaching Faculties of Department
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2020	Personality Development and Employability Skills Training Trainers: Techrel Pune	Nill	28	Nill	Nill
2020	Personality Development and Employability Skills Training Trainers:	Nill	90	Nill	Nill

	Rubicon Pune				
2020	Opportunities in ML,BigData and IOT,Data Science by Mr.Abhijit Kulkarni and Mr.Prasad from 360 DigiTMG	Nill	397	Nill	Nill
2019	Technical Training on "C, C++ and Data Structures" (11 days)	84	Nill	Nill	10
2019	50 hours Aptitude and Soft Skills Training	85	Nill	Nill	10
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
3	3	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
11	477	29	5	5	5
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	12	B. Arch	Architecture	Kamla Raheja Mumbai, BNCA Pune, JNEC Aurangabad, MIT Aurangabad, Ayojan Pune	M. Arch
2020	1	B. E.	Electrical Engineering	Northeastern	M.S. in Energy

| 2020 | 1 | B. E. | Mechanical Engineering | Skill lync, Pune | Master's program for CAE |

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| 5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services) |

Items	Number of students selected/ qualifying
GATE	11
CAT	1
GRE	4
TOFEL	1
Any Other	14

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| 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year |

Activity	Level	Number of Participants
RED HAT ACADEMY Day	National	150
CIGMA inauguration function	Institutional	350

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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)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	16th FIG AER Gymnastics world championship	National	1	Nill	MIT17-A-01-G-MECH2-24170	Dhairyashil Kiran Deshmukh
2020	2nd prize in Basketball in Zenith SGGS	National	1	Nill	MIT19-A-01-UG-CSE-30631	Lithesh Bashire
2020	1st prize in E-ladder in Technobitz, MIT	National	Nill	1	MIT19-A-01-UG-CSE-30219	Ayaman Shaikh

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student Council: The role of student council is to provide opportunities to the students for extracurricular activities. The objective for organizing different events is to hone the Presentation, intra personnel and personal skills of the students. Various extracurricular activities are conducted under Student council like celebration of Shiv Jayanti, Mahatma Gandhi Jayanti, Lal Bahadur Shahstri jayanti, Dr. Babasaheb Ambedkar Jayanti etc. Yoga divas is also celebrated in our campus to make students aware about the benefits of doing yoga regularly. However due to closure of Institute due to Government enforced lockdown some of the programs were not held.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

1250

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

1) Alumni Meet with 94 batch – Date 20-07-2019 – 13 Alumni Participated, 2) Alumni Meet with 94 batch – Date 11-08-2019 - 08 Alumni Participated, 3) Institute level Alumni Meet – Date 26-01-2020 - 151 Alumni Participated, 4) Presentation com awareness about Virtual Reality Headset Development by Alumni- Date 31-07-2019 - 50 Alumni/students Participated, 5) Expert Talk of Alumni on Career Opportunity - Date 25-01-2020 - 50 Alumni/students Participated.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

A. Decentralization in Working: The institute has delegated the powers to following listed designee for taking decisions in different academic and administrative tasks. The institute functions with decentralized administration with transparency. It helps in quick decision making at different levels to smoothen the functioning of the institute. Decentralization in working involves (1) Dean (Admissions), (2) Dean (R and D), (3) Vice Principal (Administration), (4) Vice Principal (Academics), (5) Head of Departments, (6) Workshop Superintendent, (7) Training and Placement Officer, (8) Librarian. The various tasks of academic and administrative activities, both at central and departmental level, are well identified and the allotment of central portfolios among the faculties is carried out at the beginning of academic year, if required. B. Participative Management: Institute promotes culture of participative management. This is achieved by encouraging faculty, staff and students to contribute through participation. At Strategic Level Governing Body, Principal, IQAC, Vice Principals plays important role. At functional/operational Level All head of departments, faculties, student association, along with various committees such as academic monitoring

committee, academic and administrative audit committee, library committee, research committee, anti-ragging committee, Hostel monitoring committee, cultural committee, EDP committee, internal complaint committee, Alumni affairs, time table committee, TGS, competitive examination, NSS/NCC, transportation, etc. function as per the objectives of the committee. For a case study, the participative management works as following in the institute: (A)Budget: The yearly budget is prepared according to the needs requirements of the departments taking into consideration of annual intake of students, laboratory infrastructure developments, requirements of students and staff activities, promotions and need of recent technologies etc. All departments and sections submit the annual budget to the Principal. On receipt of such proposals, Principal, in consultation with HODs and Section In-charges prepares a consolidated proposal. After deliberations formal budget made is revised in departments and forwarded to Principal for preparing final budget at institute level. Principal office submits and presents the proposal to the Governing Body for necessary approval. The departments and sections are communicated and directed for the utilization of approved budget. Institute provides the better opportunity to all the participating in the decision making process. (B) During the University affiliation process, Management asks the proposal of starting / closing of the programs in the Institute from Principal. All departmental heads are requested to send their proposals for commencement of new courses or closure /reduction of program/intake. At department level, the meeting with faculties and subsequent discussion result to prepare the initial draft of the proposal. This is further discussed at the meeting with head of departments, Vice Principal and other section In-charges. In Principal meetings, Principal in consultation with all department heads and Vice-Principals (Academic and Administration), the final decision is arrived at. Based on that, the proposal is submitted to the management through Principal Office. All teaching and non-teaching faculty involves in the process of preparation for visit of University affiliation committee.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	The institute is having Admission Office and is headed by Dean Admissions. This office looks after the admissions of national and international students. Students are admitted through Centralised Admission Process as per the rules of Director of Technical Education (DTE), Maharashtra and reservations/quota is followed as per reservations category. Admissions are provided to the students on the basis of JEE /CET exam score. Admissions are done based on merit transparent process. The advertisements are given in newspapers. Various rounds are conducted. The details are regularly uploaded on website. The institute has a norm to admit the student at institute level as per the policy decided by DTE.

Industry Interaction / Collaboration	MIT has strong association and active participation in various professional bodies' activities. MIT is member of Chamber of Marathwada Industries and Agriculture (CMIA), Marathwada Auto Cluster (MAC) and Devgiri Electronic Auto Cluster (DEC). By virtue of this association MIT is privileged to explore greater connect through its faculty and students. MIT is looking forward to undertake various activities in collaboration with industries. This will provide appropriate learning platform to our budding engineers. Following are some of these activities: (a) UG and PG academic projects to address present problems of local industries, (b) Research projects based on future requirements of industry, (c) Collaborative research with industry for development of indigenous technology, (d) Improved association and greater connect between students and industry experts for mutual benefits.
Human Resource Management	At the beginning of every academic year, each department plan the faculty requirement based on the teaching load and some specific requirement in terms of specialization. This requirement is then compiled by HR section. The complete staff requirement is approved by Director General, MIT Aurangabad. Following are some concerns about Human Resource management: (a) Loan facility (b) Accidental Insurance of Rs. 5 Lakh (c) Deputation of staff for FDP /workshops / training / conferences /symposia / STTP (d) Transparent staff recruitment policy as per UGC/AICTE norms (e) Systematic performance appraisal process (f) Support for further research in the form of seed money, sponsorship for attending conferences etc. (g) Partial amount of consultancy fee to concerned Faculty (h) Concession in tuition fees to the wards of employees (i) Maternity leave and medical leave, etc.
Library, ICT and Physical Infrastructure / Instrumentation	The total infrastructure required for the Library, Sports, gymkhana, hostel, research facility and other support systems is well planned and implemented at Central level. Whereas, the infrastructure required at various department including the laboratories, offices, classrooms, administrative

	support are developed at the Institute level. The following are few important developed facilities: (a) Good hostel facilities (separate for Boys and Girls). (b) Rooftop solar panels are mounted at Campus. It ensures 100, backup power supply. (c) Various centres of excellences are setup at campus. (d) Audio and Video conferencing facility for webinars, MOOCS, STTPs, etc. (e) Language laboratory (f) Library is kept open beyond regular college timings and 24 x 7 during exam period. (g) The Laboratories are also opened beyond regular college timings as and when the demand arises from students/staffs.
Research and Development	There is a dedicated Research and Innovation Committee Chaired by the Principal for facilitating and monitoring research. Various activities are planned and executed through this cell and approval from the management. It includes – (1) Allocation of budget for R D activity. (2) Faculty encouragement for getting financial assistance for research project from different funding agency. (3) Financial assistance for student's innovative projects. (4) Setting of university recognized research centres for Ph.D. research. (5) To encourage students and faculty for collaborative research, partnership with industries. (6)Structured efforts for greater connect with industry.
Examination and Evaluation	The institution has continuous assessment examination (CAE)/evaluation system in place, as per the guidelines of affiliating University. Minimum two class tests and one mid-semester examination is conducted which carries 40 weightage in grading/total evaluation. CAE answer sheets are shown to students and grievances if any are sorted out immediately. A committee is constituted which includes subject teacher, subject experts and head of department. This committee looks after the grievances of the students regarding evaluation. Termwork evaluation includes four to five parameters based assessment by the subject teachers. End semester examinations (ESE) are conducted as per the University schedule / calendar during the semester. As per the Dr. B.

	A. T. University, Lonere, Remedial examination is conducted within one month after the declaration of ESE result. Question paper audit is done.
Teaching and Learning	Institute is adopting outcome based education system which is student centric. The institute recruits qualified and experienced faculty as per norms of regularity bodies. Moreover, resource persons with industrial background are also contributing in the teaching learning process in the role of adjunct faculty members. For enhancing quality of teaching learning process other initiatives taken in the institute as follows: (1) Provision of classrooms with ICT facility, (2) Providing e-learning resources in Central Library, (3) Structured course files and lab manuals for all courses, (4) Student feedback on teachers and necessary corrective actions, (5) Conducting relevant FDPs for faculty, (6) Providing e-learning initiatives such as Virtual Labs, NPTEL video lectures, etc., (7) availability of e-journals such as IEEE, ASCE, Springer ,etc.
Curriculum Development	Every department has minimum one member of Board of Studies and have good linkages with eminent academicians from IITs/NITs and other reputed institutes and industry persons. Every department has Departmental Advisory Board (DAB) comprising of Industry Persons. For curriculum development, the inputs are taken from all the subject teachers. The suggestions from students are also obtained. The comparison of existing curriculum is done with the curriculum at reputed institutes/universities and based upon the scope for improvement and curriculum gap analysis inputs are forwarded to University authorities and taught as content beyond syllabus, wherever it is necessary.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Planning and Development	Institute has deployed the Management Information System (MIS) which is also known as ERP solution. It provides the access to all the internal stakeholders and administrators like Principal, Vice-Principals, Administrative officers, faculty and students. It uses the ICT

		in the process of planning college events and activities. It aims to minimize the manual efforts and improve the communication, create transparent system, and to be cost and time effective. Institute also uses personal emails (Institute domain based) for the articulation of planning and development activities. Important notices and reports are also circulated via emails. It also has integrated approach to manage all modules related to student, faculty, examination, finance, infrastructure, library and many other academic and administrative modules.
	Administration	MIS platform provides support at administration level through access to data like: (i) Organization structure of the Institute, (ii) Portfolios of staff and other assignments, (iii) Strength of staff and students – department wise and further bifurcations like category wise, cadre wise, class wise, section wise, gender wise, etc. In addition to this, Institute motivates to achieve the target of paperless administration. It encourages the faculty and other officers to use – (a) Google sheet for data collection from students and faculty, (b) Google Forms to prepare student feedback forms, (c) Google Drives to share the high volume data among themselves. Also, Institute (a) has Biometric attendance for teaching and nonteaching staff, (b) has installed CCTV Cameras at various prominent places of need, (c) uses application software for surveillance on desktop computers , (d) uses broadcasting groups (using WhatsApp) to provide the brief notices and information to students.
	Finance and Accounts	MIS platform provides support to administrative officers handling the finance and account. Finance module offers Accounts Payable, Accounts Receivable and Expense Management in an integrated manner across the organization and sets up approval chains vertically and horizontally as per the specific business requirement. All calculations of expenses and income from each module like exam, placement, any event, admissions, purchase etc. is integrated with the finance module and

	offers a complete and comprehensive solution to financial transactions of any form like (a) Fees Structure, collection and reconciliation, (b)Salary structure and payment, (c) Vendor related accounting, (d) Budget and (e) General Accounts.
Student Admission and Support	MIS platform provides support to the administrative officers handling the admission and accountable for providing the support in terms of library, hostel, etc. (i) Admissions module effectively manages admission through merit, entrance exam or a government regulated agency. It automates courses, intake for each course, no. of shifts, seat division, eligibility, merit and merit per se, fee structures, revisions, concessions and sponsorship on fee for different category of students, admission cancellation policies, late fee policy and integration with finance module. (ii) Library module takes care of books/journals/CDs/DVDs/magazines management, membership management, catalogue management, Online Public Access Control (OPAC), Book Bank Management, transactions, digitization, auditing, reporting and other library functions. (iii) Hostel module takes care of hostel functioning, dormitory allotment, permanent/temporary allotment, nightout applications, grievance management, mess/canteen management, billing, accounting, reporting, etc. (iv) Transport module includes vehicle driver allocation, route management, document renewal, trip management, maintenance spare parts management, tracking, logistics, reporting and other related functions.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr P U Zine	One day Workshop on Smart Manufacturing	Not Applicable	3665
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	International Web Conference on Impact of COVID 19 on Library Resource Sharing	International Web Conference on Impact of COVID 19 on Library Resource Sharing	12/06/2020	13/06/2020	3000	500

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Teaching Indian Architecture History	3	11/05/2020	15/05/2020	5
Learning to Teach and Teaching to Learn: Architecture Online Confirmation	6	26/05/2020	30/05/2020	5
Academia Training on Appropriate use of Glass in Design Technology	1	30/06/2020	30/06/2020	1
Climate Responsive Settlement Planning,Urban Design and Architecture	6	23/06/2020	27/06/2020	5
The Bodhi Tree and SAFE Tools for Effective Online	3	21/06/2020	21/06/2020	1

Teaching:A Hands On Workshop				
Concepts of Structural Analysis and Design for Architects	2	25/05/2020	29/05/2020	5
Universal Design	1	27/07/2020	29/07/2020	3
Arct of Online Teaching, Research paper writing and patent registration	2	28/05/2020	30/05/2020	3
Research methods and Techniques	1	04/05/2020	10/05/2020	6
Renewable energy sources - a way ahead	1	15/05/2020	21/05/2020	6

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	25	Nill	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• Maternity leave to ladies staff. • Group gratuity scheme • EPF • Accidental Insurance • Institute provides loan facility from cooperative society	• Maternity leave to ladies staff. • Group gratuity scheme • EPF • Accidental Insurance • Institute provides loan facility from cooperative society • Support to nonteaching staff by providing either partial concession in the tuition fees of their wards or providing installments	• Book Bank Facility • Group Insurance • Earn and Learn Scheme • instalments for paying the tution fees • Teacher Guardian Scheme

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Marathwada Institute of Technology conducts Internal Audit Regularly. In this audit auditor check all ledgers like Journal voucher, Receipt voucher, Payment voucher and Contra entries including cash in hand and Bank reconciliation. In addition to this he verify all statutory compliance like PF, PT, TDS etc. He also check that have the institute followed all accounting policies or not? He checks closing and opening balances. Also check salary statements along with

attendance. He checks all data in system and physical data. Statutory Auditor check all above points and give his fair opinion on accounts and also give his qualification in case of any discrepancies.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Management (G S Mandal)	1801813730	For physical and Academic Expenses

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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Nill	Yes	IQAC Cell
Administrative	No	Nill	No	Nill

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Not Applicable

6.5.3 – Development programmes for support staff (at least three)

NIL

6.5.4 – Post Accreditation initiative(s) (mention at least three)

The first assessment and accreditation by NAAC in year 2017 helped the Institute to organize the activities for quality nourishment and to take up quality enhancement initiatives. After the first assessment and accreditation of the institute by NAAC, one of the major initiations was strengthening the student skill sets. It was expected to enrich students' capacity through building skill sets expected by industry. Based on that and as per the requirement from industry, Institute planned to introduce at the basic level of understanding of societal problems and building solutions over it. In that context, institute planned to conduct the add-on course called "Engineering Exploration" to enrich the important skills of students, beginning from first year level. Another remarks by the peer team members is to strengthen the Research, Consultancy and Extension activities. Institute has improved the research initiatives in last two academic years. It had been streamlined through the Research and Development cell headed by a senior professor at this institute. It involved the conduction of meetings with the experts. It motivated the researches and increased research output. Two major research projects had been granted by the affiliating University. and the Government of India under TEQUIP. Few research proposals (for research grant) have been submitted to University and DST. As per remarks received from first assessment and accreditation by NAAC, Library infrastructure is improved further and additional e-resources are made available to students and faculty members. CCTV systems were installed in all class rooms. The installation of CCTV cameras has made the campus more secure. WiFi system is installed covering major parts of the campus. The procurement of licensed software and customized ERP solutions has further enhanced the teaching learning atmosphere.

6.5.5 – Internal Quality Assurance System Details		
a) Submission of Data for AISHE portal		**Yes**
b)Participation in NIRF		**Yes**
c)ISO certification		**No**
d)NBA or any other quality audit		**Yes**

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	**Internal academic audit**	**30/07/2019**	**13/01/2020**	**18/01/2020**	**150**
2020	**International Web Conference on Impact of COVID-19 on Library Resource Sharing**	**12/03/2020**	**12/06/2020**	**13/06/2020**	**3500**
2019	**NBA SAR preparation and Internal Audit**	**30/07/2019**	**01/08/2019**	**30/03/2020**	**2**
2020	**Online teaching and learning process**	**12/03/2020**	**18/03/2020**	**30/06/2020**	**2200**
2019	**Encouragement for submission of funded research project**	**01/08/2019**	**01/08/2019**	**30/06/2020**	**5**
2019	**One day workshop On "Accreditation Process and Documentation regarding NBA preparation"**	**30/07/2019**	**14/12/2019**	**14/12/2019**	**50**
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants

			Female	Male
Three days workshop and seminars on Tarunyabhan	08/08/2020	10/08/2020	120	150

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

1. The institute follows the environmental norms as per the guidelines of NAAC, AICTE, UGC, DTE and Government of Maharashtra. Regular energy audit and green audit is carried. The measures like, energy conservation, renewable energy, plantation is done on campus. The institute has well developed and maintained green campus and self- sufficient renewable energy source in the form of solar rooftop plant. 2. Rooftop solar panels are mounted at Campus. It ensures 100, backup power supply and the electricity generated above our demand is supplied to the local electricity distribution agency through net-metering. Institute also ensures power supply to the campus almost on a 24 hour 365 day basis. 3. Every year on 8th August Tree Plantation is organized. Verities of useful plants are planted in and around campus and also a care is taken up to sufficient growth of Plants. Also, on major events organized by various departments of the institute, tree plants are offered in place of flower a bouquet, which gives right message to the Guests as well as Audience. 4. Institute takes initiative to inculcate the environment, energy and economy (EEE) aspects in the projects of students so as to create awareness and enhance their learning of sustainable. 5. Environmental audit for AY 2019-20 has been conducted in December, 2019. 6. All the submissions of the students are in drafting and drawing are on paper sheets. After completing the process, the department gives the sheets to recycling agencies as well as provide the used sheets and papers to the pre-primary schools for the activities and model making in their school. 7. Informative Posters are put up in department educating Students regarding the necessity of water conservation. 8. Energy conserving lights like CFL, T5 tube lights and LED's are used in the department as well as in whole campus. 9. Informative Posters are put up in department educating Students regarding the necessity of energy conservation. 10. The department and Institute maintains and monitors a green campus which is clean and eco-friendly. 11. Adequate measures are taken for solid waste management and ensure sanitation in the campus.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nill
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Special skill development for differently abled students	Yes	1
Any other similar facility	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	Nill	21/09/2019	1	Precinct Cleaning and garbage disposal at Bhadra Maruti Mandir, Khultabad.	Social awarness of garbage disposal.	41
2019	1	1	01/07/2019	365	You Tube Channel called Charming English	For the locational advantages, faculty has taken this initiative to learn English language	100
2020	1	1	14/02/2020	1	Runanubandh	Distribution of books to orphan girls studying in tenth standard	150
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Service rules, procedures, recruitment and promotional policies	Nill	Every entity at the Institute level follows the code of conduct as per the laid guidelines. Administrative officer observes the same through the interactions with faculty and students. Appropriate action is initiated based on the observations and fact findings and rational investigations through the institute level committee under the

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Audit course as per University curiculum called Basic Human Rights	10/07/2019	30/10/2020	80
Student Induction Program	17/08/2019	17/08/2019	250
Exper Talk by Dr. Sanjay G. Shah, Chief Medical Officer, SVNIT, Gujarat	30/11/2019	30/11/2019	25
A session on Stress Management by Dr. Uttam Kalwane	01/02/2020	01/02/2020	140
Discipline and Personality Development	14/08/2019	14/08/2019	40

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Gray water recycling
Landscaping and Tree Plantation in the campus
Paper and sheets reusing back to back to save papers
Solar power panels are provided
Replaced conventional bulbs with LED and CFL

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice-I Title of the practice: Student development through participation in co-curricular activities and value added courses. Objectives of the practice: ? The initiative aims to involve the engineering students in various co-curricular activities like industry specific training modules, technical competitions and activities and providing them with real-word, hands-on exposure to technology. ? To improve the employability of engineers and reduce the time and resources spent by companies on re-training the graduate engineers. The Context: According to the United Nations Development Program's (UNDP) India Skills Report 2018, 1.5 million engineers graduate every year, but only 52 are employable. The report also highlights the fact that engineering courses which are linked with industry or corporate through internship or training usually score high on employability as compared to others. Also, student can learn the technology through the co-curricular activities which are closely related to technical specific domain. The Practice -A: Ready Engineer Ready Engineer Program is Tata Technologies CSR initiatives to make engineering graduates industry-ready. Students from 2nd and 3rd year mechanical engineering discipline are identified for the training under this program. The program imparts application-based training by industry experts in technical domain

training, soft skill training, employability assessment and National Programme on Technology Enhanced Learning (NPTEL) courses to meet the future opportunities of Industry 4.0. NPTEL, KRACKIN and Aspiring Minds have been selected as the implementation partners for this program. NPTEL provides e-learning through digital and video courses in engineering, the sciences, technology, management and humanities. It is a joint initiative by seven Indian Institutes of Technology (IITs) and the Indian Institute of Science (IISc) Bangalore. KRACKIN, a startup based out of the NASSCOM 10000 Startup warehouse in Bengaluru, is a platform to help improve the industry-readiness of engineering students with timely industry interventions through their web and mobile platforms. Aspiring Minds, a talent assessment organization, helps to enhance soft skill and personality development through credible assessments and training. The Practice -B: SAEINDIA BAJA / E-BAJA It is an intercollegiate design competition for undergraduate and graduate engineering students run by the Society of Automotive Engineers (SAE). A team of 25 students from different branches of engineering are participating for this event. Every year near about 350-400 teams from different engineering colleges of India are participating in this event. A team of students have to create the e-vehicle and the actual working of an all-terrain car at college level and have presented it in front of BAJA committee judges (from different automobile companies). After selection of design through the judging panel students have to fabricate the complete car in the college workshop. They have to test it as per different road conditions and does the iteration in the designs for sustain the car for rough conditions. After that different team from all over the India have to bring their vehicles at event place and also the different types of technical inspection , static and dynamic testing will get done. After passing the entire test at event place finally the teams will appear for final racing. Evidence of success: ? Through the Ready Engineer program, students are undergoing the basis training module. ? Students successfully designed, tested the an all-terrain car and a robot at college level and participated at the competition at national level. ? Students team "Squadron" bagged 8th All India Rank in e-BAJA 2020 Competition organized by SAE India, to present virtual prototype of e-vehicle at Chitkara University Chandigarh. ? Team Squadron got 2nd prize in business presentation at national level championship- "ATVC 2020". ATVC-2020 (Aravalli Terrain Vehicle Championship) is organized on 14th to 18th February 2020 at Vadodara Gujrat. This is a National championship earmarking all the techno freaks across the country. ? Problems encountered: ? Students get challenged to reduce the cost of manufacturing which subsequently lead to attain accuracy in operation due to low cost material. ? Students face difficulty to manage the timing apart from routine academic schedule ? Students are mostly facing the problem of team work, designing the vehicle and also the manufacturing it. ? They required the proper training for fabrication work, proper resources of availability of material/ components/ parts/ suppliers. Resources required: ? Around 1000 Sqft area is required with power backup, advanced tools and machines like 3D printing machine, Arena etc. ? A digital computer lab and class room equipped with high speed broadband internet connectivity and a projector and Mechanical design domain softwares for hands on practice. -- Best Practice-II Title of the practice: Innovative practices in teaching-learning student learning using Information and Communication Technology (ICT) Objectives of the practice: ? The use of ICT aims to improve the teaching-learning methodology/ pedagogy ? To improve the understanding of students through simulation, animation and virtual laboratories. The Context: Information and Communication Technology (ICT) in education is the mode of education that uses information and communications technology to support, enhance, and optimise the delivery of information. Worldwide research has shown that ICT can lead to an improved student learning and better teaching methods. Various ICT Techniques have been

implemented at the Institute levels in the teaching learning process. Their specific objectives and practices are very instrumental during the Covid-19 Lockdown situation. The Practice: Due to the prevailing conditions arising out of the COVID-19 pandemic in the country and the subsequent advisory issued by the competent authority of Government of Maharashtra, the Institute has suspended all academic, co-curricular, and extra-curricular activities. In view of that, students have been informed accordingly. . It is decided to conduct online activities for students. Objective of Practice: 1. To provide guidance support to our students in the current situation when they are out of campus. 2. To help the faculty to supervise the teaching learning process on a routine basis. Evidence of success: • Through the online conducted feedback from faculty and students, it has been observed that it helped student to remain engaged during the off-campus situation. • Faculty put their efforts to identify the challenges and bring connectivity through online mode and minimized their academic loss. Screenshot of Faculty dashboard available at ERP Solution Problems encountered and resources required: It was observed that a few students were unable to connect in online mode through ERP System. Faculty provided the alternative to get teaching material and assessment through Google forms, whatsApp and other online mode.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://engg.mit.asia/assets/pdf/NAAC/2019-20/NAAC_AQAR_2019-20_bestpractices.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Gramaudyogik Shikshan Mandal (GSM), Aurangabad, Maharashtra, India is the parent Trust established in 1975 under Bombay public Trust Act and registered under Society Registration Act. The Trust established technical institute, "Marathwada Institute of Technology" in 1984 with an objective of imparting top of the line hardcore engineering education to the aspiring to the students of Marathwada region. Vision: To develop multidimensional personality with human values through engineering education. Mission: MIT is committed – • To inculcate creativity and human values through engineering and architectural education. • To empower staff and students for self development. • To provide opportunities for continuous improvement to achieve excellence. The mission of the institute is to provide appropriate learning experience to the students to bring out their potential and capabilities. The objective is to produce leaders in all walks of life to serve the society and lead towards future with right kind of vision. The mission showcases the distinctive characteristic of the institute is to the produce leaders, winners and achievers. This is to be met through continues improvement and by empowerment of faculty and students. This is very specifically stated in the mission and provides great clarity and motivation to lead towards the vision of building character and multidimensional personality. MIT is serving the society since 1984 and produced many engineers who are serving the society not only in the field of technology but also leading in many other walks of life such as education, entrepreneur, defence, politics as well as arts. This is the outcome of overall developmental activities such as cocurricular activities such as participation and organization of technical workshops, conference, seminars and providing industrial exposure to the students during their studentship through visits to all kind of industries, and promoting students to work on industry based projects. They have also secured very high ranks in these competitions at national level. This helps the students in becoming multifaceted and multidimensional as stated in the mission of the institute. The institute

focuses on quality improvement in teaching learning process. The focus, however, is learning outcomes. Hence, the institute is also practicing outcome based education (OBE). In addition, a strong connection with industries provide good opportunities to our students for better learning experience through industry based projects. This ensures the standards as per the global requirements. To ensure the global standards, the institute also promotes the activities of professional bodies. The institute believes in value education and always tries to inculcate right values in the students. The NSS cell of the institute is very active and a good number of students participate in activities of social cause and contribute at their best from within. The institute also strives to inculcate sportsman sprit into the young brains by promoting inhouse as well as inter collegiate sports activities. Hence, it is evident that the institute is attempting for overall development of students to transform them realize their goals and they become leaders of tomorrow.

Provide the weblink of the institution
https://engg.mit.asia

8.Future Plans of Actions for Next Academic Year

Future Plan for AY 2020-21 1. To enhance the already undergoing "Engineering Exploration" initiative of the institute. 2. To enhance the capacity building program for student. 3. To start additional Master of Architecture program and B. Voc courses imparting the skill development domain knowledge 4. To enhance the faculty Industry interaction through industry training and involving the faculty in industry academia faculty/staff exchange programme. 5. To arrange various capacity programs for them through, workshops so as to make them skilled, providing life skills training and emotional intelligence skill training to the teachers so that they will be able read the students for designing their pedagogy/ teaching methodology. 5. To strengthen the international collaboration through research and student development activities 6. To organize an international conference on emerging area/domain. 7. To increase in plant training and industrial visits for students, starting from first year level. 8. To improve academic excellence by adopting effective teaching practices.