Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**MAHARASHTRA INSTITUTE OF TECHNOLOGY**
Name of the head of the Institution	**Dr. Santosh Bhosle**
Designation	**Director**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02402375222**
Mobile no.	**9822768246**
Registered Email	**director.mitt@mit.asia**
Alternate Email	**santosh.bhosle@mit.asia**
Address	**Satara Village Road, Off Beed bypass 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. Prashant Mahadev Ambad**
Phone no/Alternate Phone no.	**02402375233**
Mobile no.	**9422708028**
Registered Email	**prashant.ambad@mit.asia**
Alternate Email	**prashant.ambad@alumni.iitd.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://btech.mit.asia/wp-content/uploads/2021/04/AQAR-Report-2018-19.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://btech.mit.asia/wp-content/uploads/2021/01/Academic-Calendar-2020-2021.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.07**	**2017**	**30-Oct-2017**	**29-Oct-2022**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**09-Jan-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

Online Faculty Development Programme on Effective use of ICT Tools in Teaching-Learning	22-Jun-2020 14	400
Online session on How to Prepare for NBA	09-May-2020 1	150
[View File]()		

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
No Data Entered/Not Applicable!!!				
[View File]()				

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 :	**2**
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)

• **Honours and Minor Degree Courses in emerging areas are introduced in the Second year B. Tech, Syllabus in order to improve the employability skillsets among the students and to provide better learning platform to bright students.**

Received status of 2(f) and 12 (B) of UGC Act, 1956 through which institute is eligible to get financial assistance from University Grants Commission (UGC) and declared fit to receive central assistance (UGC grant).

Carried out survey to understand the preparations for online teaching learning during the COVID 19 Pandemic situation and planned the teaching learning accordingly. Faculty members were encouraged to participate in various online workshops/STTPs/Webinars in order to improve upon their knowledge and skill sets.

Provision of free access to COURSERA MOOCs platform for students and faculty members to upgrade their skills during the lockdown period was initiated and succeeded in getting fruitful results. Also motivated students and faculty members to go through the online NPTEL courses.

Provision of precautions/measures in the campus against COVID19 unlock was initiated.

No Files Uploaded !!!

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
Enterprise Resource Planning (ERP) implementation for Admission, Academic and Administrative modules.	Improved access to accurate and timely information; enhanced workflow, increased efficiency, integrated existing systems; and established a foundation for new, emergent systems
To promote project based learning among the students	Students and faculty members have completed the industry based live projects under GIZ MASSIA INNO Project initiative.
To promote the innovation culture in the institute	Involvement of students and Faculty members in AVISHKAR competition and received prizes and University level competition and represented university at state level competition. Involvement of students and faculty members in Institution's innovation Cell (IIC) activities.
To help the students to complete their education by providing the earn and learn opportunities.	More number of students were benefitted through the scheme of earn and learn.
Revision of curriculum to enhance the employability skill sets among the students.	First year curriculum is revised with introduction of latest programming language and inclusion of Engineering Exploration course to discover the design thinking mindset and improve the innovation culture among students. • Introduction of Honours and Minor Degree courses in the Second Year B. Tech. curriculum.
No Files Uploaded !!!	

14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to	No

assess the functioning ?	
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2019**
Date of Submission	**22-Feb-2019**
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)	**JUNO Campus: Cloud Based ERP for College The educational enterprise resource planning (ERP) software JUNO campus is a well recognized Web based College / Institute ERP. JUNO Campus ERP has 25 pro modules and 30 inbuilt modules. The College ERP helps to keep track of all daily activity and related people. Also, helps to generate ID Card, Certificate, reports for analysis and business decision, and more. Following Modules are implemented: · Admission Admissions module effectively manages admission. Salary This module takes care of all salary components including grade pay, basic, HRA, gross pay, arrears, deductions, arrears, savings, salary slips, pay roll etc. · Attendance Management Attendance is a wholesome module that integrates and automates various attendance keeping methods including muster, attendance entry, login based, biometric based, barcode scanning attendance and others. Academics This module takes care of everything that is central to learning, education, and teaching. Scholarship/Sponsorship Management Scholarship management activities**

Part B

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

Curriculum delivery is a strategy by which a curriculum enables students to achieve their learning goals. The processes involved in curriculum delivery are teaching, learning support, advice, guidance, interaction, mentorship, participative and collaborative learning. The curriculum used in our institute is designed by Dr. B.A.M.U. Aurangabad. The teachers are actively involved in curriculum design through members of Boards of Studies and syllabus committees

along with participation of syllabus revision workshops. It is designed and delivered in line with graduate attributes The college has designed its policy and procedures to implement University curriculum for student learning. The department provides different learning methods that suits learning abilities. The elective and open electives ensure that learners are provided with a curriculum of study which best fulfils their current, and future needs. Accurate and sufficient assessment records are kept which helps in planning of delivery and reporting of progress to learners as well as other stakeholders. Curriculum Delivery Strategies: The department has a coherent, sequenced plan for curriculum delivery that ensures consistent teaching, learning and assessment procedures which has a clear reference for monitoring learning across the year levels. As per guidelines from University, alongside referring academic calendar of the institute, the department publishes its academic calendar involving the regular teaching-learning activities, co-curricular and extra-curricular activities and the department is strictly adhering to the set academic calendar. The subjects are allotted to the entire faculty members well before the semester so that they can prepare the lesson plan, course plan, lecture notes and co-curricular and extra-curricular activities accordingly. Following point are taken into consideration for delevering quality education during Pandemic 1. Meticulous Academic Planning 2. Course Content Development 3. Timely preparation of time table 4. Timely conduction of theory and practical classes 5. Application of ICT tools and its awareness 6. Contineous assesment through Quizzes/Assignment etc 7. Contineous assesment of Project/Seminar/IPT 8. Optimum utilization of institute ERP System 9. Feedback system for improving the teaching learning process and providing a continuous support to students for their overall development 10. Mentorship: Teacher Guardian Scheme is conducted for learning support, advice and guidance for students

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Quality Control Training Programme	Nil	07/08/2019	30	Employabil ity	Analytical
READY ENGINEER	Nil	08/07/2019	260	EMPLOYABIL ITY	Soft Skills, Basics of CATIA V5, Knowledge of Automobile Design

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BVoc	Refrigeration & Air conditionaing	25/06/2019
BVoc	Food Processing	25/06/2019
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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	Agricultural Engineering	28/08/2019
BTech	Civil Engineering	28/08/2019
BTech	Computer Science and Engineering	28/08/2019
BTech	Electrical Egineering	28/08/2019
BTech	Electronics and Telecommunications Engineering	28/08/2019
BTech	Mechanical Engineering	28/08/2019
BTech	Plastic and Polymer Engineering	28/08/2019

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

	Certificate	Diploma Course
Number of Students	31	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
Introduction to Hadoop and Big Data	01/01/2020	7
RHCSA	23/07/2019	12
RHCSA	19/08/2019	5
RHCSA	05/09/2019	8
RHCSA	27/11/2019	2
RHCSA	14/01/2020	3
RHCSA	28/01/2020	8
RHCSA	24/02/2020	8
Two days Workshop on Soft Skills : -Flying Colours KILT, Aurangabad	01/08/2019	59
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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
No Data Entered/Not Applicable !!!		
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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
The institute has a well-established feedback system that aims at improving the teaching learning process and providing a continuous support to students for their overall development. Following feedbacks are conducted at program level as well as institute level. • Course End Survey • Mentors' Feedback • Program Exit Survey • Parents' Feedback • Teachers' Feedback • Faculty Evaluation • Alumni Feedback • Employers' Feedback • IQAC Feedback • In-Plant Training Feedback Students' feedback about each course in a semester is obtained at the end of the semester. • In addition, the feedback on teaching learning is obtained through Course End Survey and Exit surveys from passed out students. • Both Course outcome evaluations and Staff Evaluation are being done through the students' feedback. • Staff Evaluation Reports, Students Feedback Report, Staff Self Appraisal and stakeholders feedback are discussed and corrective measures are planned accordingly. • Alumni and Parents surveys are obtained through a questionnaire during parent, teachers meetings and their suggestions are taken into account for the overall improvement of 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
No Data Entered/Not Applicable !!!				
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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	1858	125	157	7	164

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	4	20	1	4
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)

Along with the adaptation of good teaching learning process, which enhances the technical knowledge of students, institute has designed innovative methods for the overall personality development of the students. The objective of institute to implement mentorship scheme is to provide training and guidance to undergraduate students in all disciplines, increase the participation of all undergraduate students from First Year to Final Year B. Tech. in the different activities conducted by the institute, which will be useful to them in their life after graduation. Institute seeks to foster and support students in achieving their personal and professional goals as undergraduates and prepare them for their future challenges. Faculty who serve as mentors make a valuable contribution to the education and training of undergraduate students interested in hands-on experience in different activities. Students judge the experiences primarily by their interaction with their mentors. To extend counselling and support to students, mentor performs the following functions: • Track overall academic performance and advise on improvement • Gather information on problems related to instruction in specific courses and report it to concerned authorities to resolve. • Report the difficulties faced by student in the use of institute facilities to the concerned authorities and take the follow-up for the same. • Help out when personal issues interfere with academic performance. • Extend support to students having acclimatization issues at institute. • Identify various career options and guide to choose appropriate career path. • Confidence building and encouragement for attending interviews. • Guidance to set future goals, time management and acquiring planning skills. • Orient properly towards scholastic and co-curricular activities to enhance employability traits • Encourage academically weak students to perform better and motivate bright students to elevate the performance in various domains. • Create the awareness about the importance of internships and acquiring current marketable skills. • Persuade to stay up to date with the current events and innovations in their field. In the Teacher guardian scheme a Teacher (mentor) is allocated with group of approximately fifteen students (mentees). Mentor has to keep the academic record of the mentees allotted to him in terms of their monthly attendance, Mid Term examination assessment records, End Semester results, co- curricular and extra-curricular participation within and outside campus etc. They are given confidence that any problem can be shared confidentially with the mentor who would support and help to find the solution for it. Mentor has to understand the challenges faced by the mentees related to academics and also the personal challenges and counsel and guide the students wherever required. Meetings are conducted at a frequency of every fortnight.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1983	164	1:12

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
135	164	Nill	10	42

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. D. T. Bornare	Assistant Professor	Research fellowship by Higher Education department, Govt. of Israel
2019	Dr. D. A. Jadhav	Assistant Professor	Promising Engineers Award Institute of Engineers
2020	Dr. Prashant Awsarmal	Assistant Professor	Teacher Category University Level

2019	Dr.Abhilasha Mishra	Associate Professor	Certificate of Appreciation in IEEE Women in Engineering International Leadership summit 2019
2019	Dr A.J.Keche	Associate Professor	PhD Guideship at Dr BAMU Aurangabad
2019	Dr. P.M.Ambad	Associate Professor	PhD Guideship at Dr BAMU Aurangabad
2019	Dr.A.Chatterjee	Associate Professor	RULA AWARDS FOR BEST RESEARCHER IN MATERIAL SCIENCE AND ENGINEEING
2019	Prof.Yogesh Khandre	Assistant Professor	Ist Prize in Avishkar 2019, organised by Dr.B.A .M.University, Aurangabad.

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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
No Data Entered/Not Applicable !!!				
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Continuous Internal evaluation is done through Practical, Teachers Assessment, class tests, tutorial and assignment for theory and practical courses. Examinations or reviews are conducted in a semester to evaluate students performance in Term work, practical's, Seminar, Project etc. At the commencement of Semester committee decides schedule for conduction of two class tests as per academic calendar. Class test is conducted at the same time for all classes on similar portion. The course coordinator in coordination with other course teacher set the question paper. The assessment will be done by respective course teachers. The course outcome attainment of internal assessment will be calculated based on the results of the class test. As per the academic calendar all the practical/Term work coordinators prepares schedule for Laboratory assignment and practical exams. During continuous assessment teacher assess student on the basis of regularity, punctuality, conceptual knowledge, programming skills (way of execution), oral written communication skills for each assignment, Practical, Seminar, and Project etc. Institute level process is defined for Continuous Internal evaluation and term work calculation. Course file and project diary are maintained for Practical, Teachers assessment, class tests, tutorial and projects , seminar for Continuous evaluations respectively.

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

• Meticuleous Academic Planning is done at the start of semester and necessary guidelines and Standard Operating Procedures (SOP) are communicated to all the concerned from time to time • Induction program is organised for FY/SY/TY and B.Tech students for all branches to communicate the readiness of institue for conducting theory, practical classes and initiatives taken for providing quality education. • Before the commencement of new academic year, academic calendar is prepared for institute inline with University academic calendar. • Based on Semester commencement/end, University theory and practical examinations and holidays, the various Co-Curricular extracurricular events and academic activity, audit are planned in institute academic calendar. • All the heads/Sectional in charges proposed their activities, budget action plan to Principal. • All the departments prepare and plan academic activities such as Unit tests, class tests, mock online tests, project/seminar activities, workshop/seminar/guest lectures, and submission schedule inline with the institute academic calendar. • The students are also informed in advance about curriculum and academic calendar. • At the end of semester audit is conducted by AAA committee and compliance report is generated for academic and necessary actions will be taken.

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://btech.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
8	MBA	MBA	52	49	94.23
7	BTech	Plastic and Polymer Engineering	58	49	84.48
6	BTech	Mechanical Engineering	167	163	97.6
5	BTech	Electronics and Telecomm unication	129	129	100
4	BTech	Electrical Engineering	57	57	100
3	BTech	Computer Science and Engineering	59	58	98.31
2	BTech	Civil Engineering	126	113	90
1	BTech	Agricultural Engineering	15	15	100

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://btech.mit.asia/wp-content/uploads/2020/11/Student-satisfaction-Survey-2019-2020.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
Minor Projects	365	NRDC,Govt of India	2	1
Industry sponsored Projects	180	GIZ MASSIA	3.7	3.7
Any Other (Specify)	1095	Biotechnology Industry Research Assistance Council	419.66	419.66
Interdisciplinary Projects	1095	Centre for Technology Alternatives for Rural Areas (CTARA) IIT Bombay and Tribal Development Department, Government of Maharashtra	39.99	0.6
Any Other (Specify)	1095	Nanomission, DST New Delhi, Govt. Of India	73.98	Nill
International Projects	1095	Royal Academy of Engineering, London, UK	45.08	Nill

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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
NIL		

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
Student	Bhale	BAM	01/01/2020	PG Student

Category University Level Avishkar 2020	Devshree Devidas	University		Category
Teacher Category University Level Avishkar 2020	Dr. Prashant Awsarmal	BAM University	01/01/2020	Teacher Category
Teacher Category University Level Avishkar 2020	Yogesh Khandre	BAM University	01/01/2020	Teacher Category

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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	Nill	Nill	Nill	Nill	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
NIL	Nill

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)
International	Electronics and Telecommunication Engineering	2	1.16
International	Mechanical Engineering	5	1.13
International	Plastics and Polymer Engineering	4	1.88

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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
Mechanical Engineering	8
Basic Science and Humanities	7
Electronics and Telecommunication Engineering	3

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
Tuning the swelling and rheological attributes of bentonite clay modified starch grafted polyacrylic acid based hydrogel	Ayan Dey	Applied Clay Science	2020	12	Department of Plastic and Polymer Engineering, Maharashtra Institute of Technology, Aurangabad 431 010, India	9
Investigation of properties of cement mortar incorporating pond ash – An environmental sustainable material	Prof. Suranjana Mandal	Construction and Building Materials	2019	4	Department of Plastic Polymer Engineering, Maharashtra Institute of Technology, Aurangabad 431010, India	4
Layered double hydroxide based bionanocomposites	Dr. Aniruddha Chatterjee	Applied Clay Science	2019	27	Department of Plastic and Polymer Engineering, Maharashtra Institute of Technology, Aurangabad, 431010, MH, India	26
The influence of micro-graphite addition on	Dr. Aniruddha Chatterjee	Materials Today: Proceedings	2020	0	Dept. of Mechanical Engineering, M.I.T. Aurangabad, India	Nill

nucleation efficiency and isothermal crystalliz ation kinetics of thermop lastic pol yurethane (TPU)							
Effect of microwave treatment exposure time on fu nctionaliz ation and purifcatio n of multi ?walled carbon nanotubes (MWCNTs)	Dr. Swamini Chopra	Applied Physics A	2019	0	Department of Mechanical Engineerin g, M.I.T., Aurangabad , India	Nill
Outcome of using olive oils for MWCNT functional ization and the influence of -OH modified MWCNTs on PA and PBT nano-compo sites	Dr. Swamini Chopra	Materials Today: Pro ceedings	2020	0	Dept. of Mechanical Engineerin g, M.I.T. Aurangabad , India	Nill
Experime ntal inves tigation of heat transfer e nhancement in shell and helically coiled tube heat exchanger using SiO2/ watre nanofluids	Dr. J. M. Kshirsa gar, Dr. K. B. Kulkarni	Materials Today: Pro ceedings	2019	9	Department of Mechanical Engineerin g, Maharas htra Institute of Technol ogy, Off Beed Bypass Road, Aura ngabad-431 010, India	9
Effect	Dr. A.		2020	2		2

Title of the Paper	Name of Author	Title of journal	Year of publication			Institutional affiliation as mentioned in the publication	
of Grain Size on Hall-Petch relationship during rolling process of reinforcement bar	J. Keche, Dr. Swamini Chopra	Materials Today: Proceedings				Department of Mechanical Engineering, Maharashtra Institute of Technology, Aurangabad 431001, India	
Evaluation of CNN model by comparing with convolutional autoencoder and deep neural network for crop classification on hyperspectral imagery	Dr. Kavita Bhosle	Geocarto International	2020	2		Department of Computer Science and Engineering, Maharashtra Institute of Technology, Aurangabad, Maharashtra, India	2
Evaluation of Deep Learning CNN Model for Land Use Land Cover Classification and Crop Identification Using Hyperspectral Remote Sensing Images	Dr. Kavita Bhosle	Journal of the Indian Society of Remote Sensing	2019	14		Maharashtra Institute of Technology, Aurangabad, MH, India	10

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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
Layered double hydroxide based bionanocomposi	Dr. Aniruddha Chatterjee	Applied Clay Science	2019	14	26	Department of Plastic and Polymer En

tes						gineering, Maharashtra Institute of Technology, Aurangabad, 431010, MH, India
The influence of micro-graphite addition on nucleation efficiency and isothermal crystallization kinetics of thermoplastic polyurethane (TPU)	Dr. Swamini Chopra	Materials Today: Proceedings	2020	5	Nill	Dept. of Mechanical Engineering, M.I.T. Aurangabad, India
Efect of microwave treatment exposure time on functionalization and purifcation of multi ?walled carbon nanotubes (MWCNTs)	Dr. Swamini Chopra	Applied Physics A	2019	5	Nill	Department of Mechanical Engineering, M.I.T., Aurangabad, India
Outcome of using olive oils for MWCNT functionalization and the influence of –OH modified MWCNTs on PA and PBT nano-composites	Dr. Swamini Chopra	Materials Today: Proceedings	2020	5	Nill	Dept. of Mechanical Engineering, M.I.T. Aurangabad, India
Experimental investigation	Dr. K. B. Kulkarni	Materials Today: Pro	2019	6	9	Department of

Title	Author	Journal	Year	Col5	Col6	Institution
of heat transfer enhancement in shell and helically coiled tube heat exchanger using SiO2/ watre nanofluids		ceedings				Mechanical Engineering, Maharashtra Institute of Technology, Off Beed Bypass Road, Aurangabad-431 010, India
Experimental investigation of heat transfer enhancement in shell and helically coiled tube heat exchanger using SiO2/ watre nanofluids	Dr. J. M. Kshirsagar	Materials Today: Proceedings	2019	6	9	Department of Mechanical Engineering, Maharashtra Institute of Technology, Off Beed Bypass Road, Aurangabad-431 010, India
Effect of Grain Size on Hall-Petch relationship during rolling process of reinforcement bar	Dr. Swamini Chopra	Materials Today: Proceedings	2020	5	2	Department of Mechanical Engineering, Maharashtra Institute of Technology, Aurangabad 431001, India
Effect of Grain Size on Hall-Petch relationship during rolling process of reinforcement bar	Dr. A. J. Keche	Materials Today: Proceedings	2020	4	2	Department of Mechanical Engineering, Maharashtra Institute of Technology, Aurangabad 431001, India
	Dr.	Geocarto	2020	3	2	

Evaluation of CNN model by comparing with convolutional autoencoder and deep neural network for crop classification on hyperspectral imagery	Kavita Bhosle	International				Department of Computer Science and Engineering, Maharashtra Institute of Technology, Aurangabad, Maharashtra, India
Evaluation of Deep Learning CNN Model for Land Use Land Cover Classification and Crop Identification Using Hyperspectral Remote Sensing Images	Dr. Kavita Bhosle	Journal of the Indian Society of Remote Sensing	2019	3	10	Maharashtra Institute of Technology, Aurangabad, MH, India

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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	30	383	16	14

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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
NSS Special Camp	NSS unit	2	100
Blood Donation Camp	NSS unit with Dattaji Bhale Blood Bank, Aurangabad	2	100
Participation in Get Going Marathon	NSS unit	2	100
Film Appreciation workshop	NSS unit	2	100

National Voters' Day	NSS unit	2	100
FIT India Plogging 2k run	NSS unit	2	100
Nirmalya Collection Drive	NSS unit with NGO 'Sahayog Foundation',	2	100
Tree Plantation Drive	NSS unit	2	100
Blood donation Camp	NSS unit with Dattaji Bhale Blood Bank, Aurangabad	2	100
A two-day workshop on Analysis of Infrastructure for Energized Irrigation (AIEI)	Centre for Technology Alternatives for Rural Area (CTARA), Indian Institute of Technology (IIT) Bombay	2	2

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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
NIL	Nill	Nill	Nill

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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
Government of India	NSS	National Voters' Day program	2	100

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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 by Publication	Dr. A. Chatterjee	DST Nanomission, New Delhi and Self supporting	365
Research by Publication	Dr. S. Bhandari	Self supporting	365
Research by Patent	Dr. Swamini Chopra	Self supporting	730
Research by Publication	Dr. Swamini Chopra	Self supporting	365

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 details	Duration From	Duration To	Participant
Research Work Collaboration	Material and Component Improvement	Sanjay Technoplast Pvt. Ltd. Waluj	01/07/2019	30/06/2020	Dr. Swamini Chopra, Dr. C. L. Gogte
Research Work Collaboration	Post-processing Treatments of Polymeric Materials	VNIT Nagpur	01/07/2019	30/06/2020	Dr. Swamini Chopra, Dr. C. L. Gogte
Research Work Collaboration	Steel property and structure enhancement	Bhagyalakshmi Rolling Mill, Jalna	01/07/2019	30/06/2020	Kunal Bhansali, Dr. Swamini Chopra, Dr. A. J. Keche, Dr. C. L. Gogte
GIZ Project	Major Project	Mahesh Industries	14/08/2019	30/06/2020	Kandle Vallabh, Aarti Digambar Sawle, Samiksha Vijay Chauhan, Dr. P M Ambad, Dr. G S Sable
GIZ Project	Major Project	Shriram Engineers	14/08/2019	30/06/2020	Rushikesh Vilasrao Kale, Jadhav Bhushan Babasaheb, Pratik Sanjay Pitale, Mr. S B Patil
GIZ Project	Major Project	Accrete Electromech, Waluj, Aurangabad	14/08/2019	30/06/2020	Arjun Govindrao Vaidya, Gautam Patil, Mr. P T Borlepwar
Internship	IPT	Binary Bridge India	13/01/2020	05/06/2020	ASHISH TUKARAM

Internship	IPT	Netafim Irrigation PVT LTD	01/01/2020	30/05/2020	Mayur Daund Patil
Internship	IPT	ARDC MIT ABAD	01/01/2020	30/05/2020	Tejaswini Bhomle
Internship	IPT	Balkrishna Industries Ltd., Master Components Pvt .Ltd., TE Connectivity India Pvt.Ltd., Abhijeet Dies and Tools Pvt.Ltd., Sudarshan Polyalloys etc.	01/01/2020	30/06/2020	Final year B.Tech PPE students

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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
INSTITUTE OF CHEMICAL TECHNOLOGY(JALNA AND BHUBANESHWAR)	02/08/2019	ACADEMIC COOPERATION AND EXCHANGE	1
CSIR-NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE (CSIR-NEERI)	29/11/2019	TRAINING AND RESEARCH	1
CAD CAM GURU Guru	18/07/2019	Training Placement Partnership 2. To provide training and expertise 3. To provide industrial training to students and staff 4. To provide mentoring to students for interviews	2
"Department of CS IT" of Dr.BA.M.U Aurangabad, on	05/11/2019	To Share their RD facilities to promote academic and research	100

	interaction		
" RUSA-Center for advanced sensor Technology" Dr.BA.M.U Aurangabad on	22/04/2019	To Share their RD facilities to promote academic and research interaction through practical training at RUSA MIT.	100

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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
1384.16	992.15

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	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing
Video Centre	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	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 software	Nature of automation (fully or patially)	Version	Year of automation
LMS - MIT	Partially	1	2013
ERP-MIT	Partially	1	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	33972	7211508	194	34453	34166	7245961
Reference Books	3498	2798400	14	9220	3512	2807620

Journals	93	130137	Nill	Nill	93	130137
e-Journals	5601	2092486	354	1038847	5955	3131333
Digital Database	6880	68700	Nill	Nill	6880	68700
CD & Video	31	14776	Nill	Nill	31	14776

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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
Dr A M Gore	AMG Agroneer	Youtube Channel	30/05/2020
Ms. Preeti Mishra	Python	Youtube https://www.youtube.com/watch?vNO5acap3FFUlistPLW0_HuvNOChp-OJ24uuxJj6on2XrVpoIp	28/05/2020
Ms. Daivashala Deshmukh	IBM Captsone Project	Youtube https://www.youtube.com/watch?v1_XlrPV5AxY	02/06/2020
Dr. Geeta Tripathi	Compiler Designing	Youtube https://www.youtube.com/watch?vfOhCI5-lrxMlistPLm2DjH5ZUkA6AgNAvX_qvMHi7j6M5qbwc	26/03/2020
Mr. Rahul Mapari	ERP	Youtube https://www.youtube.com/watch?v_FuFrDS67mglistPLgpjqbr8wVR-S73ED9Jz2TYWN3lkQwTsy	21/03/2020
Ms. Seema Chaudhari	ASP.net	Youtube https://www.youtube.com/watch?vg7yyIgzsKrA	17/03/2020
Mr. Trishul Kulkarni	Transportation Problem in Operations Resaerch	Youtubehttps://youtu.be/I5bBYd1o8x0, https://youtu.be/sptlz24IDxU, https://youtu.be/D-OjaJzIu3M, https://youtu.be/iNexjLg4Vl4	26/06/2020
Dr. Bhagwan Toksha	What is Superconductivity| Engineering physics | solid state physics | Meissner Effect	Youtube https://www.youtube.com/watch?v8Jbwqr1_Ifk	25/04/2020
Dr. Bhagwan Toksha	Virtual lab- How to develop Virtual	Youtube https://www.youtube.com/watc	17/07/2020

		Lab -Introduction and Demonstration	h?vB03yf0RuI38	
Mr. Shaik Zameer	Roots of Cubic Equation in 30 Seconds	Youtube https://www.youtube.com/watch?vHQTz9dso15s	27/07/2020

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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	593	21	21	0	1	1	8	1	0
Added	70	1	1	0	0	0	0	0	0
Total	663	22	22	0	1	1	8	1	0

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

1 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
Basic Electrical Engineering,OOPS, RA	https://www.youtube.com/channel/UCXhasiA4cWSU8d9nJy9n0Pg
Introductions to LTspice simulation	https://www.youtube.com/watch?v=H1i71wmYqw0&list=PLaM32qKMsHvsf5jecGrVn4GqArL1GKqrn
FY Mechanical courses	https://drive.google.com/drive/folders/1p8ic_yfIc-CBlUvc1A_rtJ_aq17xYsAj
SY Mechanical courses	https://drive.google.com/drive/folders/1uhrx7NVrmYl3Oz4tLEOnc7S-Mg-8jWhe
TY Mechanical courses	https://drive.google.com/drive/folders/1plgSPP69BCWgsxAAGiICt-CT7N1nSHYz
Final year Mechanical courses	https://drive.google.com/drive/folders/1BcOzxdhOSSwUZ4XT0cQX-uME0wmw9i42
Virtual Lab- Machine Tools	https://vlabs.iitb.ac.in/vlabs-dev/labs/mit_bootcamp/machine_tools/index.php

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	Expenditure incurred on	Assigned budget on	Expenditure incurredon

academic facilities	maintenance of academic facilities	physical facilities	maintenance of physical facilites
13.6	16.86	8.04	48.73

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 institute give great prominence to creation, maintenance and upkeep of the entire infrastructure necessary for the effective teaching-learning, positive development and efficient maintenance. • Laboratory: The institutional laboratories are accessible to the students of respective departments' during the allocated hours as per the time table • Library: The books can be availed from central library by faculty members as well as students. • A digital library section is also available for online referencing. Students can access to the digital library during 10 am to 8 pm on all working days. • The computer center facility is utilized for conducting workshops, seminars, webinars, virtual laboratory development and performing virtual laboratory experiments, conducting recruitment examinations, class tests, feedbacks etc. • Various sports facilities i.e. badminton court, basket ball court, table tennis are available on the campus. A schedule is also declared in accordance with university sports events schedule. The expenses like expenses incurred on equipments,travelling allowances and daily allowances are waived by the institute. • Electrical repair and maintenance work is carried out by Electrical wing. • Maintenance of computing facilities AMC contract is given to external agency for the maintenance of computers and printers within the college. • To maintain internet connectivity in all computers and CCTV security system, a network and system administration team is appointed. • LCD projectors, EPBX system, air conditioners and water coolers are maintained with the help of external agencies. • Maintenance of Laboratory Equipment as and when required, the institution takes up calibration and other servicing measures for the equipment/instruments through suppliers and service personnel periodically. • Other laboratory equipment is maintained by technical supporting staff. In case of any repair requirement, service is hired from outside agencies. • Garden maintenance is taken care of by a team of gardeners. • Concreting of the parking area and its management. • General Security Measures -Trained Security Personnel are deployed at the college main gate, at all the department blocks, hostels and other strategic locations. • Under the supervision of a security officer, they keep constant vigil all the movements inside the campus, take care of the security of all the equipment in the buildings and also check all the outsiders entering the campus. • CCTV Cameras are installed in various vantage points inside college campus. All drawing halls are provided with CCTV camera. Campus is equipped with CCTV camera on main places with 24x7 security system, necessary human power is available to take care of the facilities.

https://btech.mit.asia/

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	0	0	0
Financial Support from Other Sources			

a) National	Open EBC, Minority, OBC, SBC, VJNT, SC, ST, National Scholarship	1657	80124466
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 enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Seminar on "Value of training and certification"	31/01/2020	54	Mr. Ramesh Padmanabhan", Associate Director, Training and Certification,Redhat India Pvt. Ltd, Bengaluru, Mr.vAneesh , Manager, Global LearningvServices, Red Hat India Pvt. Ltd.
Seminar on "Guidance for career path"	26/02/2020	104	Mr. Onkar Deshpande ,System Engieer, Netscope, San Francisco
Seminar on Stress Management	14/03/2020	102	Dr.Uttam Kalwane,Bhartiya Yog Sanstha,Auranagabad
Webinar - Machine Learning by AWS	04/02/2020	54	Suman Debnath Principal Developer Advocate, Amazon Internet Services Pvt. Ltd.
Introduction to SQL	03/10/2020	100	Mr. Parvez Abidi, Expert Global
Interview Skills	30/11/2019	35	Ms. Rasham Bamb, Shy Foundation, Aurangabad
Training Program on MS Excel	22/10/2019	35	Mr. Arun Rajput, Ajay Infotech, Aurangabad
Soft Skill Development Professioncy module	12/08/2019	100	Prof. Sachin Lomte
Stress Management Session	13/08/2019	100	Mr. Makarand Tillu, Laughter Trainer and Motivational Speaker- Laughter

			Club Pune
Yoga Session	12/08/2019	100	Bhartiya Yoga Sansthan, Aurangabad

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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
2019	Seminar on "Career opportunities in open source."	Nill	45	Nill	20
2019	Soft skill development Program (TP) Cell	Nill	200	Nill	Nill
2019	One week STTP on Soft skills by Mahindra Pride Classroom and Naandi Foundation under employ ability enhancement & Youth livelihood programme	Nill	270	Nill	Nill
2019	Training program on soft skills	Nill	54	Nill	20

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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
No Data Entered/Not Applicable !!!		

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations	Number of students	Number of stduents placed	Nameof organizations	Number of students	Number of stduents placed

visited	participated			visited	participated	
Kale Group of Industries, Aurangabad	Nill	2		Shreenivas Vastunirman, Aurangabad	Nill	1
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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	9	B. Tech.	Electronics and Telecommunication Engineering	Nill	Nill
2020	4	B. Tech.	Mechanical Engineering	Nill	Nill
2020	3	B. Tech.	Civil Engineering	Nill	Nill
2019	2	B. Tech.	Agriculture Engineering	Nill	Nill
2019	12	B. Tech.	Civil Engineering	Nill	Nill
2019	3	B. Tech.	Electrical Engineering	Nill	Nill
2019	2	B. Tech.	Electronics and Telecommunication Engineering	Nill	Nill
2019	35	B. Tech.	Mechanical Engineering	Nill	Nill
2020	1	B. Tech.	Computer Science and Engineering	Nill	Nill
2020	1	B. Tech.	Electrical Engineering	Nill	Nill
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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	4
Any Other	1
Any Other	1
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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
Sports	National	7
Sports	State	52
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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
2019	Sports	National	4	Nill	Nill	Nill
2020	Sports	National	2	Nill	Nill	Nill
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student's Council is formed every year at Maharashtra Institute of Technology, Aurangabad, as per the guidelines given by Dr. B.A.M. University, Aurangabad and as per Uniform statute no. 7 of 2018 declared by Higher and Technical Education Department. The council consists of student members from First Year to Final year ,Civil, Computer Science, Electronics and Telecommunication, Mechanical, Plastic and Polymer and Electrical Engineering departments and Management. The nominations of the students for student's council are taken from National Service Scheme, National Cadet Corps, Sports and cultural activities. The student's Council works as a medium between academic and cocurricular activities carried out in the institute. The student's council plays important role in coordinating curricular and co-curricular events/activities as per the directives given by the Principal and Faculty in-charge of the Student's Council. The student's council motivates and helps students of the institute to take part in the activities conducted at the Institute/University/State/National level. The council communicates the information between students and Teaching faculty. The council coordinates and organizes different Sports cultural competitions throughout the year. Different Industrial Visits are organized for the students of different departments in coordination with student's council. Experts from Industry and society are invited to deliver expert talks on various technical and non-technical/ social/ cultural issues in consultation with the council. This helps the students to develop their leadership skills through these activities. Every department of the institute has professional chapters such as Computer Society of India student's chapter, IEEE- student's chapter, ISHARE- student's chapter etc. The student's council assists and guides these students' chapters from individual departments to organize different technical and non-technical activities in their respective departments. Management of Maharashtra Institute of Technology provides necessary support to the council members in organizing coordinating these events. Students perform their role in following academic and administrative bodies such as NSS (National Service Scheme), Students Associations of each Department, Cultural Committee, Canteen/Food committee, Discipline Committee, SPIC MACAY, MITRA (MITs Rangabhumi Aristocrats), Mathematics Club, Students Chapter: Indian Institution of Industrial Engineering, Indian green building council, Indian Plastic Institute, Institution of Electronics and Telecom Engineers.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Institute is having alumni association AAMIT (Alumni Association of MIT) with registration No: Maha/398/04 which was registered in year 2004. The motive of the association is to bring together all the alumni to share their experiences and ideas for the development of curriculum. Also, to extend their helping hand and provide guidance to the budding engineers of the institute. All the passed out students of the college are active members of the Alumni Association. The Alumni members are spread around the globe and support the college in various activities. Alumni meet is held at our College every year.

5.4.2 – No. of enrolled Alumni:

0

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Every year alumni meet is organised to connect with alumni, in which alumnus provides feedback, suggestions and advice for the progress of institution.

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)

Designations of members who have been delegated powers for taking administrative decisions • Principal • Vice-Principal (Administration) • Vice-Principal (Academics) • Head of the Department • Training and Placement Officer • Workshop Superintendent • Librarian 1. Various academic and administrative portfolios of the work are already identified by the institute. The work allotment is divided into two types such as Work allotment at central level and work allotment at departmental level. Work allotment at central level is carried out by Principal in consultation with all HODs and section in-charges. In normal course the tenure of the allotment portfolio is for two academic years. The department level work allotment is done by HODs in consultation with all the staff members of the department. In normal course the tenure of the allotment portfolio is for one academic years. Principal office takes regular reviews of various portfolios from time to time so as to ensure smooth functioning of all the academic and administrative activities of the institute. 2. Grievance Redressal Committee - For this a separate committee is formed at institute level viz. grievance redressal committee. In addition to this two separate cells are formed for taking care of grievance of employees and grievances of students separately which are as follows: There exist an online mechanism on the official website for the registration of the grievance through separate link https://btech.mit.asia/redressal.php. There also exist offline mechanisms wherein employees/students can directly approach to the concerned authorities through the information displayed on flex board installed at the entrance lobby of the institute 1. Employee grievance cell 2. Student grievance cell - To address problem of the faculty and students a grievance redressal committee is duly constituted as per the directives provided in the approval process handbook of AICTE. Responsibilities: In order to maintain cordial and tension free atmosphere in the premises of the institute, the grievances cell has been established. The grievances committee after suitable investigation

will make its recommendations to the concerned authorities of the Institute, to resolve the issues amicably. 3. Participative Management: Teaching staff of the institute are actively engaged in participative management by making various committees like Governing body, IQAC cell, Grievances redressal cell, Antiragging committee, examination committee etc. for the smooth functioning of the institute. In each committee formed, the concerned staff committee member works actively in co-ordination with the committee head and if required submits the reports of work done. In Examination Management, the Chief Superintendent allot the tasks to Under study and the whole team members to look after each and every activity of the examination whether its related to question paper, answer sheet related work, student seating arrangement, staff invigilation duties required for smooth functioning of the overall examination. All the assigned teaching and non teaching staff members actively participate and acknowledge their assigned duties as per the office order issued to them by timely reporting and completing the task with proper submission of the report or formats as required.

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
Curriculum Development	Academic and Administrative Committee Integrated framework for quality assurance of the academic and administrative activities is available in the form of Academic and Administrative Audit conducted by Academic and Administrative Audit committee of the institute. Roles • To conduct audit of all the departmental processes including course file, practical file, departmental portfolios, laboratory manuals, etc. is conducted through internal auditors as appointed through the Academic and Administrative Audit Committee. •Submission audit report send to respective head of department and principal • Corrective measures are suggested and discussed in consultation with head of department and Principal with concern faculty.
Teaching and Learning	• Implementation of outcome based teaching and learning methodology. • Recruitment of well qualified and experienced staff as per AICTE norms. • Sponsorship to faculty for higher studies and faculty development programmes. • Use of modern teaching aids like LCD projectors and interactive boards in the class rooms. • Continuous evaluation system for students. • Introduction of various professional programs in collaboration

	with global institutions of repute. • Emphasis on imparting skills through laboratory experiments and industrial visits/ training/ tours and various skill development programmes.
Examination and Evaluation	Departments conduct the oral or examination of the students at the time of submissions of term work. Online and offline test are conducted along with end semester examination. External examiner is invited for assessment of project/dissertation work even if not prescribed by university. Evaluation of teaching learning quality: Institute conducts test, oral and analysis of the university examination result is done. Internal evaluation process is automated for online class test and student can see the result immediately. Remedial classes for improvement and continuous evaluation of seminars, projects are carried out.
Research and Development	Institute has university approved research centre. It also has various research facilities to motivate, encourage and facilitate faculty and students for research. There is a research committee in the institute. The aim of the research committee is to create a conducive environment for promotion of research and innovation activities in the institute. Responsibilities • To encourage faculty and students to inculcate and promote research culture. • To encourage faculty members to apply for research projects to various funding agencies • To promote collaborative research • To strengthen industry institute interaction by promoting consultancy and industry based projects.
Library, ICT and Physical Infrastructure / Instrumentation	The library has good collection of books, journals of science, engineering, technology, humanities, social sciences and management. It maintains separate collections of text books, reference books, Compact Discs and DVDs. The library is using ERP (Juno System Software) OPAC (Online Public Access Catalogue), wherein the users can search the availability of books on the computer systems available in the library. Electronic Resource Management package for e-journals: The Library has access to e-journals a. Science Direct (Elsevier)-275E b. ASME c. Springer d. ASTM digital Library e.

	J-Gate Social science and Management
Human Resource Management	The key responsibility areas are identified and delegated at different levels like office function, Principal, HOD/Asst. HOD. • Staff Orientation Programmes are organized by the college on regular basis. • Performance appraisal system is practiced. • Promotion policy: College follows the promotion policies of the Higher Education along with seniority based and performance-based promotions. • Policy for compensation – College extends the benefits like Provident fund, Gratuity, Leave Encashment to the staff members and all teachers are treated at par. Performance recognition is also given to the deserving staff members in various forms.
Industry Interaction / Collaboration	Institute interact with local and non native industries in various levels. Institute participates in GIZ-MASSIA live projects in each where more than 20 problems in the industry are solved by students. We regularly interact with many of the city, out of the city based industries of all scales in various sectors e.g Cosmo Films Ltd., LT Industries, Godrej Boyce Manufacturing Co. Ltd., Bajaj Auto Ltd., Infosys Technologies Ltd., etc To get the exposure to students through Industrial Visits, Lecture Talks, In-Plant Trainings and finally the employments. of the students. MIT also have collaborated with 28 industries and research centres.
Admission of Students	Candidates apply for seeking admission through a special portal for the CAP admission and seats are allotted as per merit to the candidates. General merit seats are allotted to the candidates. Post selection and allotment, students submitting all the required documents and confirm admission by paying the fees as applicable. PG admission students with minimum 50 marks in qualifying examination and non-zero in GATE can apply for PG course. Ph.D. admission candidate should appear and clear the entrance examination conducted by BAMU, Aurangabad GATE qualified and teachers with 5 years of approved service are also admitted by facing the interview.

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

E-governace area	Details
Planning and Development	• Audio-visual system in classrooms • Each department is provided with seminar hall with computers having internet facility. • The institute Central Library has adequate no. of books, journal, computer with internet facility and provision for digital library. • 24X7 library facilities provided by the institute for the students and faculties.
Administration	• Internet access to all machines with 1 GBPS leased line. • Wi-Fi enabled campus. • Administrative information is digitalised partially, and all the departments of the institute are provided with computer data cable network facility. • Biometric attendance system is employed for all the staffs. • CCTV surveillance system for central library and all the existing facilities.
Finance and Accounts	Tally System for maintaining the accounts in accounts department. CYNSYS for the tax calculation in accounts department. Direct monthly salary transfer to staff's account.
Student Admission and Support	• Admission and examination procedure are computerised. • E-Learning resources were created using e-Journals and e-books in Library. • Internet facility is provided at departments and in student hostel Considering teaching learning as an integrated process, the institute strongly feels that the faculty should be equipped with modern teaching techniques and should get their knowledge updated with change in technology. For this, the faculties are encouraged to attend workshop, training Programmes, conferences, seminars and Symposia, Online learning resources like NPTEL courses etc. Online students grievances cell has also been set up.
Examination	Class Tests are conducted online. Internal evaluation process is automated for online class test and student can see the result immediately. University has a systematic procedure of online evaluation, offline evaluation re-checking, re- evaluation and photocopying of the answer sheet. To conduct online examinations, institute has sufficient IT

infrastructure. Question paper availability for End semester examination is also done digitally and is only available online just before the start of the actual exam with proper security in order to avoid any misuse or leakage.

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	J S Dhage	Industrial Visit	Nil	5000

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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	Expert talk on "Writing effective Research Proposal	Nil	22/04/2020	22/04/2020	20	Nill
2020	Guest Lecture on " DST Proposal and schemes"	Nil	13/03/2020	13/03/2020	22	Nill
2020	Guest Lecture on "Guidance on NBA"	Nil	10/03/2020	10/03/2020	22	Nill
2019	STTP on Machine Learning Deep Learning	Nil	22/07/2019	27/07/2019	6	Nill

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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	Number of teachers	From Date	To date	Duration

professional development programme	who attended			
World Food Day- Food Sanskrit	8	16/10/2019	16/10/2019	1
Research Methods and Techniques by RADAV College with University of Mumbai	1	04/05/2020	10/05/2020	7
TEQIP-III sponsored FDP "Applied Groundwater flow and contaminant transport modelling" at IIT Roorkee	1	24/06/2019	28/06/2019	5
STTP on Machine Learning and Deep learning Techniques	7	22/07/2019	27/07/2019	7
FDP TALE2: Course Design and Instruction of Engineering Course	16	01/07/2019	30/09/2019	90
FDP on NBA accreditation and teaching learning in engineering	5	01/01/2020	30/04/2020	90
FDP on BOSS Linux 3.4.2 Operating System	1	25/04/2020	01/05/2020	7
FDP on Java Business Application	1	27/04/2020	20/05/2020	23
FDP on "Python Programming"	2	28/04/2020	03/05/2020	7
FDP on "Python Programming"	1	29/04/2020	04/05/2020	7
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching	Non-teaching

Permanent	Full Time	Permanent	Full Time
10	10	6	6

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Medical facility, Cooperative Society, Group insurance, Credit Society Loan Facility	Medical facility, Group insurance, Cooperative society, Fee concession for employee children in education.	Earn and Learn Scheme, Accommodation (hostel facility) Medical facility Student insurance Play grounds and gymnasium meditation hall yoga practice centre Recreational facilities, Implementation of fee reimbursement scheme MIT TARA Scholarship

6.4 – Financial Management and Resource Mobilization

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

Department Heads / Section-in-charges are intimated of the extent of funds allocated against their budget proposals. Actions for procurement of lab equipment, up-gradation of existing lab facilities etc. are initiated from the respective departments and the funds are released on a case by case basis from the accounts office of the institute on approval by the Management. Institution conducts internal and external financial audits regularly to validate and monitor financial transactions during the financial year. The primary purpose for financial audits is to give regulators, investors, directors, and managers reasonable assurance that financial statements are accurate and complete.

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
Honey Wala Pvt Ltd, Aurangabad	97000	Honey Product Development
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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	Yes	Institute level committee	Yes	IQAC
Administrative	Yes	Institute level committee	Yes	IQAC

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

* Orientation programme was organized for the 1st year students along with their parents. At the end of the programme, parents are invited to share their

feedback. • During Parent Teachers meeting, the parents are called to inform about the activities carried in the departments and in the institution. • Parents are members in Anti ragging committee and Grievance committee.

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

• Fundamental of computer and computer operations. • Skill developments like personality development and work life balance. • Staffs have attended Productivity Enhancement Programme

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

• Applied for NBA by reinforcing OBE system faculty are encouraged to innovatively improve the processes including evaluation processes to achieve attainment higher levels of course outcomes. • Proposal for seeking autonomous status from UGC is submitted. • Implemented Open Elective Courses and Audit Courses in Choice Based Credit System (CBCS) curriculum with an idea to look into the needs of the students so as to keep up-to-date with development of higher education in India. • Students are encouraged for project-based learning through initiatives like GIZ-MASSIA live projects where students are solving the real life problems in the MSME sector and also interdisciplinary approaches are promoted. • Received the 2 (f) 12(B) of the UGC Act 1956 status. This makes the colleges eligible for central assistance from the Government of India or any organization receiving funds from the Central Government. • Honours and Minor Certification courses in the emerging areas are proposed which will help to enhance the skill sets to be acquired by the students in order to make them industry ready.

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	No

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	Two weeks Online Faculty Development Programme on Effective use of ICT Tools in Teaching-Learning	20/04/2020	22/06/2020	04/08/2020	400
2020	Webinar on "To be ready for NEET/JEE /MHTCET"	20/04/2020	24/05/2020	24/05/2020	150
2020	Online session on "How to Prepare for NBA"	20/04/2020	09/05/2020	09/05/2020	100

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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
Gender Sensitization	05/02/2020	05/02/2020	23	Nill
Gender Sensitization	16/09/2019	16/09/2019	23	Nill
Gender Sensitization	06/02/2020	06/02/2020	19	Nill
Gender Sensitization	05/02/2020	05/02/2020	5	Nill
Gender Sensitization	11/10/2019	11/10/2019	41	Nill
Gender Sensitization	12/02/2020	12/02/2020	11	Nill
Awareness about ICC	25/01/2020	25/01/2020	27	33

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
• Rain Water Harvesting Two rain water harvesting units of 1.5 lakh liters are functional for storing and reuse of water. Gardens are watered by using drip/sprinkler irrigation system to save water. This is one of the unique steps towards greening practices. • Roof Top Solar Power plant 100kWh roof top solar power plant is installed in campus which contributes to 25 of the total electrical energy required on the campus. • Bio-CNG Plant A bio CNG plant of 18m3 is installed at boys hostel which generates 3-5 Kg of biogas which is utilized for cooking purpose.

7.1.3 – Differently abled (Divyangjan) friendliness

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

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	1	12/07/2019	1	Nirmal Pandharpur Yatra: Solid waste collection drive at Pandharpur Waluj during Aashadi Ekadashi Yatra	Solid waste Management	50
2019	1	1	12/09/2019	1	Nirmalya Collection Drive on occasion of Ganesh Visarjan	Solid waste Management	50

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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)
NA	Nill	NA

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Audit Course on Cyber Crime and Law	08/01/2020	30/04/2020	120
Audit Course on value education	08/01/2020	30/04/2020	46
Audit course on Rural Community Engangement	08/01/2020	30/04/2020	60

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

The college has also adopted the 'Green Campus' system for environmental conservation and sustainability. There are main three pillars i.e. zero environmental foot print, positive impact on occupant health and performance and 100 graduates demonstrating environmental literacy. The goal is to reduce CO2 emission, energy and water use, while creating an atmosphere where students

can learn and be healthy. The 'Green Campus' has been active since last 2 years both as an assembly group of sub committees that actively promote the various projects. The college administration works on the several facets of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity. Following areas are covered during environment management in the campus: 1. Water management 2. Energy Conservation 3. Waste management 4. E-waste management 5. Green area management 6. Phytoremediation techniques in wastewater treatment 7. Bio-Energy -Bio-CNG Plant of capacity 18 m3 is installed at boys hostel.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

• Institute has launched dedicated Teacher guardian in every department where faculty from respective departments takes care of problems of students, records for the same is recorded separately and problems were addressed through proper channel. • Regular training placement is imparted in the area of communication skill and aptitude to the students to make them employable. • Encouraging students to be a part of GIZ-MASSIA Projects, with an objective to develop student's ability with innovative products in a cost effective manner. • Earn-While-Learn scheme for deserving students implemented in all Micro Enterprises of MIT • Active Participation of students in extension activities like Unnat Bharat Abhiyan, Unnat Maharashtra Abhiyan, Dense Forest Project and waste management projects. • Financial assistance to the poor and needy students is made available. Earn and learn scheme is available for needy students in which students work in various sections of institute and earn through it.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://btech.mit.asia/

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

Microenterprises at MIT Aurangabad - MIT-Center for Industry Relevance in Polymer Science and Technology Micro Enterprise at MIT is a new way of thinking about resources and responsibility. MIT is setting up many laboratories and facilities. The user while learning to use these facilities does it with some purpose. The purpose may be to render some service of value to the industry or community or to develop some product. The User takes responsibility to use resources productively and generate some surplus. Microenterprise in this sense encourages people to be responsible for what they do with the resources given to them. It rewards performers by giving them the authority to spend the resources they generated. It is a Micro Idea with Macro Impact" MIT, Aurangabad- realizes its responsibility as an academic institute to work towards the twin objectives of: • Enhancing employability in the area of plastic engineering through skill development trainings and manufacturing support • Encouraging Entrepreneurship to students and new comers. With this goal, MIT, Aurangabad has established state of the art infrastructure, MIT-Center for Industry Relevance in Polymer Science and Technology (M-CIP)- an industry scale Plastic Manufacturing plant to nurture young talents with an entrepreneurial and global mindset. In M-CIP students not only get technicalskill of handling machines that the industry currently uses but get trained in core skill of communication across and within as well as professional skill expected of them. They learn about Quality Standards, Manufacturing standards and Policies, Safety policies, assurance and control and different ways and means to achieve these. Training in safety at workplace

is integral part of skill development courses at MIT, Aurangabad. MIT- Center for Analytical Research Studies (MIT-CARS) The MIT- Center for Analytical Research Studies (MIT-CARS) is another micro enterprise of MIT group of Academic Research institutions established for catering the needs of farmers, industry, researchers and all other stakeholder across the globe. It represents the philosophy of socio-techno-commercial model driven by faculty students of different disciplines of engineering, Agriculture, Environment Life Sciences. MIT-Siemens Center of Excellence Center Of Excellence in Automation Mechatronics The primary goals of this center are: • To deliver knowledge of the content in the Mechatronics Systems • To deliver knowledge of the content in the Automation fundamentals and systems This knowledge would enable the students to: • Take a productive, self-organizing part in a project team • Understand and translate customer wishes to technical requirements to reach

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

8.Future Plans of Actions for Next Academic Year

• Identify and introduce subject in revised curriculum to impart required skillset to make students industry ready. • Upgradation of existing laboratories and purchase of equipment to promote student projects and research activities of faculty members • Implementation of institute ERP system in all academic and administrative activities • Promoting research culture among students and faculty. • Promoting the innovation and incubation culture among the students and faculty members through institutions Innovation Council. • Applying to various funding agencies in order to receive the funds for innovation, incubation and research. • Conducting training of faculty members to create awareness of ICT tools among all faculty members. • Organization of workshop, seminar and job-oriented services by the Career Counselling and Placement Unit. • To promote the extension activities among students through NSS, Unnat Bharat Abhiyan and Unnat Maharashtra Abhiyan programs. Promoting NCC activities among Students. • Applying for the autonomous status of the institute to UGC. Restructuring of the Organizational Structure inline with the autonomous institute. Constitution of various statutory and non-statutory committees as per the guidelines of UGC. • Preparation of Governance document for the institute. • Introduction of Honors and Minor degree courses in the emerging areas. • Creating the infrastructure as per the requirements of Autonomous Institute. • Involving the students and faculty members to work on live industry problems in various industries across Aurangabad.