

Minutes of the Internal Quality Assurance Cell (IQAC) meeting on 30th June, 2020

The meeting of the Internal Quality Assurance Cell (IQAC) 2020 was held on 30th June, 2020 at 11.30 am in the Convention Hall of the institute. The meeting was chaired by **Dr. R. K. Pandit**, Director of the Institute. Following have attended the Internal Quality Assurance Cell (IQAC) meeting:

Representative of Management:

- **Shri. Prashant Mehta, IAS, Member, Board of Governors**
- Er. Ramesh Agrawal, Secretary, SECS & Member BoG

The External Expert:

- Dr. I. K. Bhat*, Vice Chancellor, Manav Rachna University, Faridabad

Nominee from Local Society:

- Shri. Keshav Pande, Journalist

Nominee from Alumni:

- Er. Ashutosh Chincholikar*, M.D. & CEO of Smart Controls Ltd.

Nominees from Employer/Industries:

- Mr. Ajay Joshi*, Industrialist, Appmaisters, VadodraServices, Pune
- Mr. Yatindra Kumar Shrivastava*, Industrialist, Syssteanz Management Advisory. Services. Pune

Student Representative:

- Mr. Kunal Abhishek*

Faculty Representatives:

- Dr. Manjaree Pandit, Professor & Dean Academics
- Dr. P K Singhal, Professor & Exam Controller
- Dr. Rajeev Kansal, Professor & Dean Students Welfare
- Dr. Akhilesh Tiwari, Professor & Head CSE/IT
- Dr. Manish Dixit, Professor
- Prof. R. R. Singh Makwana, Assistant Professor

Administrative Officers:

- Mr. Vikram Singh Rajput, Training & Placement Officer
- Mr. Dharmendra Gorakhpuri, Finance Officer
- Mr. Atul Chauhan, Assistant Registrar

Coordinator of the IQAC:

- Dr. Pratesh Jayaswal, Professor & Coordinator IQAC

**Attended through online mode*

The following deliberations took place in the meeting. The Item wise details are as follows:

Item-1	To confirm the minutes of the previous IQAC meeting on 3rd March 2020.
	<ul style="list-style-type: none">➤ The minutes of the previous IQAC meeting dated 03.03.2020 regarding following points were confirmed.<ul style="list-style-type: none">• Actions for promoting a culture of meritocracy in the institute.• Quality improvement initiatives & events conducted under IQAC & TEQIP-III.• Constitution of Parent-Teacher Association at the department level.



- Constitution of Alumni Association at department level.
- Formulation of the draft Internship policy of the institute.
- Conduction of International Symposium December 2019.
- Mechanism developed to compute the Administrative Efficiency Index (AEI) of the departments & Sections.
- The report of the Girls Grievances cell (GGC).
- Preparations of the Institute for the forthcoming NBA accreditation.
- Academic & Administrative Audit by external experts.
- Status of facilities in the Central Library.
- Financial support under the IRS- Scheme & Ph.D. admissions under the QIP scheme.
- Status of e-repository created on MOODLE for UG projects and ME dissertations.
- First student feedback report for January-April 2020 Sessions.
- Details about Hackathon conducted in the institute.
- Monitoring of on-line teaching-learning through the MOODLE Working Index (MWI).
- Mechanism for ranking the performance of student clubs/chapters
- Performance of faculty & staff members in on-line courses on SWAYAM/ NPTEL platform during July-Dec. 2019.

Minutes of the previous IQAC meeting dated 03.03.2020 is attached.

Item-2

To apprise about conduction of classes and academic activities in online mode

- In view of the present situation due to COVID-19 pandemic, various advisory were issued to faculty & Staff members of Institute regarding guidelines for ensuring Teaching Learning activities through online mode. In addition to above, all the faculty members were instructed to submit the details of work done from home including online sessions of students Teaching & Learning and online Mid Sem Examination conducted.
- Further, teaching learning activities (online classes/interactive sessions with students) conducted during lockdown at various department level is compiled as summarised below:

Summary of On-line Classes	
Name of Department	Remarks
Civil	Total Interactive Classes = 195 Videos on youtube/ Google Drive = 74
Mechanical	Total Interactive Classes = 253 Videos on youtube/ Google Drive = 192
Electrical	Total Interactive Classes = 376 Videos on youtube/ Google Drive = 192
Elex & ET	Total Interactive Classes = 204 Videos on youtube/ Google Drive = 298
CSE/IT	Total Interactive Classes = 430 Videos on youtube/ Google Drive = 342
Chemical	Total Interactive Classes = 81 Videos on youtube/ Google Drive:59
Applied Sciences	Total Interactive Classes = 134 Videos on youtube/ Google Drive = 114
Humanities	Total Interactive Classes = 161 Videos on youtube/ Google Drive = 06
Architecture	Total Interactive Classes = 95 Videos on youtube/ Google Drive = 57
BT	Total Interactive Classes = 92 Videos on youtube/ Google Drive = 30

- The house **appreciated the initiatives** taken by Institutes to ensure the use the various tools and techniques for online interactive teaching, e-content developments, effective delivery, peer group learning, various audio-visual aids and many other on-line tools ICT initiatives of MHRD during the COVID-19 pandemic situation.
- **Mr. Ajay Joshi, Industrialist**, Appmaisters, Vadodra advised for the conduction of Training to faculty and staff for the effective conduction of virtual classes/lab.
- The **External Expert Member Dr. I. K. Bhat**, advised to ensure Collaborative learning along with regular online classes as it is the educational approach of using groups to enhance learning through working together. Groups of two or more learners may be formed to work together to solve problems, complete tasks, or learn new concepts.

Detailed faculty wise report on conduction of classes, submission of on-line assignments/quiz etc is enclosed as Annexure.

Item-3 To apprise about conduction of online remedial/additional classes during lockdown

- The institute is always focused to ensure the performance of students with special attention to the needy students for the improvement in **quality and equity**. In view of same the classes and other academic activities were continued after **26th April 2020** to help those students who were not able to attend the classes earlier due to technical or other reasons. The remedial classes for UG & PG students were also conducted. Following is the summery of total Remedial Classes conducted through online mode during lockdown & subsequent unlock-1 in various departments:

Dept./Year	B.Tech.				M. Tech	Total
	I	II	III	IV	I	
Applied Science	57	52	12	0	0	121
Civil	6	35	8	6	0	55
Mechanical		40	15	0		110
Automobile	51	24	9	5	4	38
Electrical	42	79	49	36	37	243
CSE		72	42	32		217
IT	27	51	40	36	44	127
Electronics &ET	0	106	72	24	19	221
Chemical	0	25	32	19	0	76
Architecture	15	2	0	0	0	17
Biotech	0	22	15	13	0	50
MCA	18	61	37	0	0	116
Total	216	569	331	171	104	1391

- The House appreciated the efforts made by Institute to reach each individual effectively and to maintain equity aiming at improving **“Transition Rate”**.

The detailed report on online remedial & additional classes is enclosed as Annexure

Item-4 To review the conduction of online Mid Semester Examination through MOODLE and report the variation in scores through statistical analysis.

- The mid-semester II examination was conducted online using MOODLE from 26th April to 2nd May 2020. For establishing the credibility of evaluation, the statistical comparison of

	<p>results of online open book examination (MCQs as well as subjective in a few courses) has been done with the off-line pen paper mode traditional examination (with subjective questions).</p> <ul style="list-style-type: none"> ➤ The courses where the mean marks were ≥ 18 and/or the standard deviation was ≤ 2 were identified where the variation of marks was found to be very less in the online mode of examination. ➤ Out of the 259 courses for which the results of the online mid-semester examination were analyzed, about 45 courses ($< 17.5\%$) were found to have low variation in students scores. ➤ Efforts were made to identify the reasons for very low variation in scores or very high scores for all students to establish the credibility of the online/open book mid-semester examinations conducted through the MOODLE. ➤ The mid-semester III examination was also conducted online using MOODLE from 16th June to 24th June 2020. ➤ The External Expert Member Dr. I. K. Bhat, Vice Chancellor, Manav Rachna University, Faridabad has suggested following to ensure the proper assessment through digital mode: <ul style="list-style-type: none"> ▪ The faculty members should prepare question banks with more number of questions ensuring three section/level of questions (Easy, Moderate & Tough) to test the concept, basic knowledge, numerical skills and implementation of technical skills. MCQs do not have to be limited to only assessing recall. Students' higher-order thinking, such as application, analysis, and synthesis, should be tested using well-constructed MCQs. Faculty should Consider the sophistication of student learning that the MCQ is testing & each MCQ should be constructed to test a single course concept or outcome. ▪ Formative assessment during ongoing process of teaching- learning with focus on learning goals. <p>Annexure: Performance of Students in Mid-semester Examinations</p>
Item-5	<p>To notify the House about the Student Feedback on digital teaching during the National Lockdown imposed due to COVID-19</p> <ul style="list-style-type: none"> ➤ The house reviewed the Student Feedback on digital teaching and assessment during the lockdown due to COVID-19 and found following observations: <ul style="list-style-type: none"> • Increasing Education Outcomes. • Improvement in Formative Assessment along with mid sem assessment using digital means of online assessment. • Approach of Learner centric study model allowing self paced & adaptive learning. • Increase in digital literacy & competency of all faculty members & Students • Flexible timing & home tutoring through live tutoring Online classes led to improvement in students attendance ➤ The External Expert Member Dr. I. K. Bhat, Vice Chancellor, Manav Rachna University, Faridabad has suggested for the Mandatory provision of Linking of result declaration with submission of all required feedback by the students for increase in number of responses/better response of feedback collected from students. ➤ Dr. I. K. Bhat, also advised to initiate the provisioning of mentoring to faculty scoring less FFI through faculty achieving higher FFI (Faculty Feedback Index). <p>The full report & summary is enclosed as Annexure.</p>

Item-6	<p>To inform the House regarding feedback forms designed for (i) Counsellors (ii) Administrative Officer (iii) T&P officer (iv) Accounts Officer & (v) Controller of exam.</p> <ul style="list-style-type: none"> ➤ Director of the Institute has informed the house about the existing on-line feedback collected and analysed for the faculty members since 2017-18. He also informed about recent Initiative to take feedback for other staff members (Counsellors, Administrative Officer, T&P officer & Accounts Officer & Controller of Exam) also. The feedback report will be appraised in the next meeting of IQAC. <p>Annexure: Feedback forms of officers</p>
Item-7	<p>To apprise the House about the conduction of on-line Summer Internship Programmes & student feedback</p> <ul style="list-style-type: none"> ➤ Dean Academics of the Institute appraised the house about mandatory Summer Internship Programmes (SIP-I & SIP-II) which are conducted in-house by the institute were offered in on-line mode this time due to COVID-19. <ul style="list-style-type: none"> ▪ The total number of modules offered was 33 for SIP-I. ▪ Total number of students registered for SIP-I were 953. The feedback was given by 526 students. ▪ In SIP-II the soft skills module was developed and conducted in on-line mode. ▪ Total number of students registered for SIP-II was 980. The feedback was given by 622 students. ➤ Er Ashutosh Chincholikar, M.D. & CEO of Smart Controls Ltd. has expressed willingness for the support in Internship modules based on Industry Automation. ➤ The IQAC members belongs to Industry have appreciated the new initiative and suggested to insure proper Internship Assessment as the purpose of this internship assessment is to provide the student intern with constructive feedback on his/her internship experience. This evaluation should be completed by the internship supervisor or the faculty coordinator most responsible for supervising the intern's work assignments. The student's grade should be partially based on your evaluation of his/her/their performance on each of the internship dimensions identified below. Use the evaluation rubric to assess the student's performance on each dimension by specifying a score based on the performance ratings and descriptors delineated in the rubric form. <ul style="list-style-type: none"> • Quality of Work: The degree to which the student's work is thorough, accurate, and completed in a timely manner • Ability to Learn: The extent to which the student asks relevant questions, seeks out additional information from appropriate sources, understands new concepts/ideas/work assignments, and is willing to make needed changes and improvements • Initiative and Creativity: The degree to which the student is self-motivated, seeks out challenges, approaches and solves problems on his/her own, and develops innovative and creative ideas/solutions/options • Character Traits: The extent to which the student demonstrates a confident and positive attitude, exhibits honesty and integrity on the job, is aware of and sensitive to ethical and diversity issues, and behaves in an ethical and professional manner • Dependability: The degree to which the student is reliable, follows instructions and appropriate procedures, is attentive to detail, and requires supervision • Attendance and Punctuality: The degree to which the student reports to work as scheduled and on-time <p>The feedback report is attached as annexure. Annexure: Internship modules offered and feedback for SIP-I & SIP-II</p>

Item-8

To apprise about the conduction of Finishing School Program (Online Internship-2020) For Pre-Final and Final Year Students

- The house reviewed the introduction of the **Finishing School Program, 2020** (Online Internship) by Institute through online mode for Pre-Final as well as Final year students of the Institute. The Modules aimed to instil a synergy of both Soft Skills and Technical Acumen for increasing employability of students. It was designed to cater to the needs of the mandatory industrial internship programme and was open for students who were not able to get an Internship offer from any industry due to the COVID-19 Crisis.
- The program started on 18th May, it was designed to be equivalent of five weeks summer Internship period as per AICTE norms and was run daily with fixed number of hours.

SUMMARY	
Total no. of students 3rd Year	583
Final year students	148
Outside Students	03
Total	734

S.No.	Department	Module Name	Registered students
1.	Biotech Department	Medical Device Innovation	5
2.	Chemical Engineering	Process Integration & Automation in Chemical Industries	31
3.	Civil Engineering (148)	Module 1: Matrix Analysis of Structures	1
4.		Module 2: Environmental Engineering Design of Sewage Treatment Plant	20
5.		Module 3: Field Outlook in Geo-technical Engineering Projects	65
6.		Module 4: Energy Efficient Building (Planning, Design & Evaluation) and Pavement Design and Materials(Overview)	55
7.		Module 5: Structural Design of a Two Storey RC Building and MS Project	7
8.	CSE & IT Engineering (312)	Module 1: Administrative Functions Automation and Data Loading	7
9.		Module 2: Applied Computational Skills	42
10.		Module 3: Cyber Security	125
11.		Module 4: Data Science	138
12.	Electrical Engineering (35)	Biomedical Signal and Image Processing using MATLAB/OCTAVE Platform	7
13.		Soft Computing Techniques in Engineering	28
14.	Electronics Engineering	Robotics and Automation	52
15.	Mechanical & Automobile Engineering	Advances in Mechanical Engineering	151
		Total	734

➤ The Industry experts members of IQAC, advised to collaborate these finishing school modules with renowned industries to use industry inputs for better outcomes of Finishing School programmes introduced to increase the employability rate.
 The feedback and module details are available in Annexure.

Item-9

To report the initiatives taken for organizing GATE Training & the performance of students in GATE-2020

➤ The house reviewed the status of following numbers of selections in GATE 2020, GATE training provided to students by the institute under TEQIP-III and ranks obtained by the students lows:

Sr. No.	Particulars	Numbers		
1	Total Number of Final Year Students 2019-2020	906		
2	Total Number of Students who have taken GATE Training	486		
3	Total Number of Students (Final Year) taken GATE Training	296		
4	Total Number of Students (Final Year) Appeared in GATE-2020	287		
5	Total Number of Students (Final Year) qualified GATE-2020	125		
		Name	Rank	Branch
6	Best Five Rank in GATE-2020 (Name, Rank, Discipline)	1.Mohammad Faizan	315	EC
		2.Chirag Jain	418	EC
		3.Shubham Agrawal	943	ME
		4.Ashwin	1019	EC
		5.Anoop Pathak	1074	EC

GATE 2020 Branch-wise Result Analysis

S.NO.	Department	No. of Qualified Students
1.	Civil Engineering	24
2.	Electrical Engineering	22
3.	Mechanical Engineering	21
4.	Electronics Engineering	19
5.	Computer Science Engineering	34
6.	Chemical Engineering	04
7.	Biotechnology	01
Total qualified		125 (about 44%)
Total Number of Students Appeared		287

➤ A general discussion was also done to identify the lack of interest in students towards appearing in GATE, members were in opinion that the students are more interested to get the jobs in new emerging areas of IT & Product Development as compared to higher education or jobs in traditional core sectors.

Item-10	<p>To apprise about the conduction of Employability Skills Training to final & pre-final year students under TEQIP-III</p> <p>➤ The house reviewed the following status of Employability Skills Training conducted by the Institute to final & pre-final year students under TEQIP-III, house was in opinion to conduct such training regularly:</p> <ul style="list-style-type: none"> ▪ Conducted 60 Hours Training for Final year Batch (2020 Graduated Batch) - 30 July to 22nd August, 2019 - Total students 740. ▪ Conducting Employability Skills Training for 2021 Graduating Batch: Started on 4th June, 2020 - Total students 844. 																																								
Item-11	<p>To apprise about online presentation & progress review of Ph.D. scholars under QIP/NDF/RA-TEQIP-III</p> <p>➤ The Dean Academics of Institute has appraised the house regarding following initiatives to continue the research activities during prevailing situation of COVID-19, in the benefits of research scholars admitted through various schemes:</p> <ul style="list-style-type: none"> ▪ In view of conduction of Teaching, learning & Research activities through online mode due to prevailing situation of COVID-19 pandemic, online Presentation & progress review of Ph.D. scholars under QIP/NDF/RA-TEQIP-III by approved RAC (Research Advisory Committee) for concerned candidates was completed before 30th May 2020. ▪ The review of all Ph.D. scholars registered under QIP/NDF/RA-TEQIP-III was conducted between 10th May to 30th May 2020. All the 28 registered students appeared for the on-line review. The department wise details are: <table border="1" data-bbox="365 1153 1372 1881"> <thead> <tr> <th>S.No.</th> <th>Department</th> <th>TEQIP/NDF/QIP</th> <th>No. of Student</th> <th>No. Students Present for online review</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Civil Engineering</td> <td>TEQIP RA = 1 NDF = 04</td> <td>05</td> <td>05</td> </tr> <tr> <td>2.</td> <td>Mechanical Engineering</td> <td>TEQIP RA = 01 NDF = 05</td> <td>06</td> <td>06</td> </tr> <tr> <td>3.</td> <td>Electrical Engineering</td> <td>TEQIP RA = 02 NDF = 04 QIP = 02</td> <td>08</td> <td>08</td> </tr> <tr> <td>4.</td> <td>Electronics</td> <td>TEQIP RA = 01</td> <td>01</td> <td>01</td> </tr> <tr> <td>5.</td> <td>CSE/IT</td> <td>TEQIP RA = 01 NDF = 05</td> <td>06</td> <td>06</td> </tr> <tr> <td>6.</td> <td>Architecture</td> <td>NDF = 02</td> <td>02</td> <td>02</td> </tr> <tr> <td colspan="2">Total</td> <td>TEQIP RA = 06 NDF = 20 QIP = 02</td> <td>28</td> <td>28</td> </tr> </tbody> </table>	S.No.	Department	TEQIP/NDF/QIP	No. of Student	No. Students Present for online review	1.	Civil Engineering	TEQIP RA = 1 NDF = 04	05	05	2.	Mechanical Engineering	TEQIP RA = 01 NDF = 05	06	06	3.	Electrical Engineering	TEQIP RA = 02 NDF = 04 QIP = 02	08	08	4.	Electronics	TEQIP RA = 01	01	01	5.	CSE/IT	TEQIP RA = 01 NDF = 05	06	06	6.	Architecture	NDF = 02	02	02	Total		TEQIP RA = 06 NDF = 20 QIP = 02	28	28
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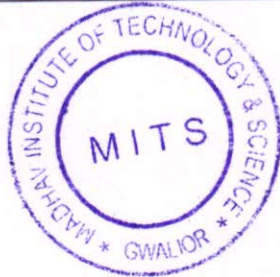


Item-
12

Contribution on behalf of Institute Faculty & Staff in PM Cares Fund to fight against COVID-19:

- Director of the Institute has informed the house about various initiatives & steps taken to ensure that the spread of CORONA virus is slowed down and to help the society by providing support during the lockdown period through the conduct of awareness programmes, free Counselling, tele-support, developing e-material for managing online classes, involving in development of essential solutions, etc. as efforts in fighting COVID-19.
- In addition to above a financial Contribution provided by Institution (faculty/staff members/ students) towards the relief fund is as follows.

Category of Employees	Numbers	Contribution (Rs)
TEQIP Faculty members	84	4,73,580/-
Regular faculty & Staff (Regular teaching staff, class-II, III & IV employees)	214	5,55,928/-
Contract Faculty	59	
Contractual Staff (AE, Counsellors, Doctor & contractual technical staff)	07	
TOTAL	364	10,29,508/-



Item-
13

To report on status of implementation of the Flexible Curriculum

- The house reviewed the following status of implementation of Flexible curriculum & open courses to be offered to the **B.Tech. VII Semester of July – Dec. 2020** under the **Flexible Curriculum (2017-18 admitted batch)**:
- The flexible curriculum has been implemented for the batch admitted in 2017-2018. The students under the Flexible Curriculum are now in VI semester and will be promoted to the VII semester the next Academic Session, i.e. 2020-2021, beginning shortly.
 - In the January-June 2020 session the institute has offered Departmental Elective Courses (DEs), Open Courses (OCs) and also offered courses for **credit transfer from MOOCs using the NPTEL platform**.
 - Also, the provision for getting a **minor specialization** (in other engineering discipline) or **Honours** (in parent discipline) was also made from V semester onwards, since July 2019 session.
 - The DEs, OCs & MOOCs to be offered in the next semester (July 2020-Decemebr 2020) were approved by the **Academic Council meeting on 15th June 2020**.
 - Following **Open Category (OC) courses** are proposed by the different departments and will be offered to the **B.Tech. VII Semester of July – Dec. 2020** under the **Flexible Curriculum (2017-18 admitted batch)**.
 - The Board of Studies has prepared the syllabi for these OCs to be offered by their respective departments.

S. No.	Course Name (OC-2)	Course Code (OC-2)	S. No.	Course Name (OC-3)	Course Code (OC-3)	Offering Department
1	Integrated Waste Management for Smart City	900201	1	Urban Planning & Transportation Systems	900213	Civil Engineering
2	Project Planning & Control	900202				
3	Industrial Automation	900203	2	Engineering Materials for Industrial Applications	900214	Mechanical Engineering
4	Solar Energy	900204	3	Maintenance Engineering	900215	
5	Applications of Electrical Equipment and Motors	900205	4	IoT in Microgrid	900216	Electrical Engineering
			5	Electrical Vehicles	900217	
6	Satellite Systems	900206	6	MEMS & Mechatronics	900218	Electronics Engineering
7	Consumer Electronics	900207	7	Multimedia Communication	900219	
8	Soft Computing	900208	8	R Programming	900220	CSE & IT
9	Network Security	900209	9	Artificial Intelligence	900221	
10	Data Mining & Warehousing	900210	10	Computer Networks	900222	
11	Petroleum Processing Technology	900211	11	Process Safety & Hazard Management	900223	Chemical Engineering
12	Bioinformatics	900212	--	--	---	Bio-Technology
-	-	-	12	Entrepreneurship & SMSE	900224	Humanities
-	-	-	13	Laser Technology	900225	Applied Science

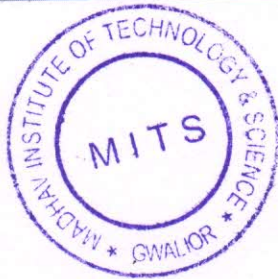
Item-
14

To apprise the house regarding approval of new Under Graduate Courses in Emerging areas

- The house appreciated the Institute efforts to start the following FIVE new Under Graduate courses in Engineering & Technology and Planning programmes with effect from 2020-21 academic session as per approval of AICTE:

Level	Course	Intake
Under Graduate (B.Tech.)	Mathematics and Computing	60
Under Graduate (B.Tech.)	Internet of Things (to be offered by Electrical Engineering Department)	60
Under Graduate (B.Tech.)	Internet of Things (IoT) [to be offered by Information Technology Department]	60
Under Graduate (B.Tech.)	Information Technology (Artificial Intelligence and Robotics)	60
Under Graduate (B. Planning)	B. Planning	40

- The house also reviewed the following status of Scheme and syllabus and admission procedure of new courses to be offered w.e.f. 2020-21:
 - In view of interdisciplinary orientation of above courses in emerging areas, a committee has been constituted for the preparation and finalization of scheme & syllabus of aforementioned courses.
 - The admissions in first year for above courses along with other UG & PG courses offered by Institute will be done through Directorate of Technical Education, Madhya Pradesh.



Item-
15

To apprise the House about the funds received from the AICTE in year 2019-2020

➤ The house appreciated the efforts made by faculty members to receive the grants under following schemes of AICTE to explore the research and development activities in the Institute:

S. No	Scheme	Department	Coordinator	Title of the Project	Duration of Project	Amount (Rs.)
1.	MODROBS	Mechanical	Dr. C. S. Malvi	MODROBS - Modernisation & Removal of Obsolescence	02 Year	9,00,000
2.	RPS	Electrical	Dr. H. M. Dubey	RPS – Research Promotion Scheme	03 Years	4,00,000
3.	STTP	CSE/IT/MCA	Dr. R.S. Jadon	STTP – Short Term Training Program	01 Year	3,00,000
4.	RPS	Institute Level	Dr. R. K. Pandit	Performance analysis of thermal comfort and Sustainability analysis of Heritage Buildings	03 Years	5,00,000
5.	Skill and Personality Development Centre	Institute Level	Dr. Pratesh Jayaswal	Skill and Personality Development Program Centre for SC/ST students	03 Years	15,46,750
6.	GOC (e-conference)	Institute Level	Dr. Manjaree Pandit	Second International Conference on Sustainable and Innovative Solutions For Current Challenges in Engineering and Technology	06 Months	1,66,667.00
TOTAL						38,13,417.00

Item-
16

To apprise & review the status of participation in Coursera for Campus: Coursera's Coronavirus Response Initiative.

➤ The house reviewed the following initiative of AICTE and efforts made by faculty & Students to take the benefit of opportunity made by AICTE for learning/certification from Coursera through online mode:

- As per AICTE announcement regarding **Coursera for Campus: Coursera's Coronavirus Response Initiative**, to help and to minimize the impact of the coronavirus outbreak on faculty & students, the Coursera community has launched a global effort to assist universities and colleges to deliver courseware online.

- Accordingly, the Institute has taken initiative to take the advantage of Coursera for Campus for the faculty & students of Institute. Coursera's Coronavirus Response Initiative will be available at no charge till 31 July 2020.
- **The Coursera Coronavirus Response Initiative is available for Institute to:**
 - Access to 3,800 courses and 400 Specializations
 - Up to 3,000 licenses for enrolled students
 - Institute may enroll students through July 31, 2020
 - Learners can access courses through September 30, 2020
- In view of the foregoing, Faculty & Students of all the Departments are utilizing the opportunity for the benefit of. **The usage report for the Coursera learning program is as follows as on June 29:**

Total Enrolments	2476
Total unique learners	641
Learners who have enrolled in at least one course	640
Current members	848
Total unique courses	649
Total verified course completions	475
Total unique course completers	208
Total estimated hours spent	5694
Learners who have completed 50% of a course	243
Learners who have joined the program but have not enrolled in a course	208
Learners who have enrolled in a course but have not completed any course	433
Learners who have enrolled in 1 course	248
Learners who have completed 1 course	109
Learners who have enrolled in 2 courses	135
Learners who have completed 2 courses	47
Learners who have enrolled in more than 2 courses	258
Learners who have completed more than 2 courses	52

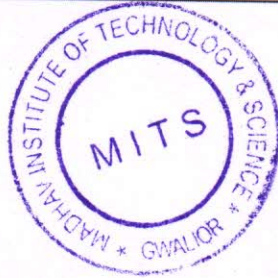
<p>Item-17</p>	<p>To report about joining of Institute in the Implementation of National Innovation & Start-up Policy.</p> <ul style="list-style-type: none"> ▪ The IQAC coordinator has informed the house about following institute initiatives to promote start-up, internship & innovations in the Institute campus via implementing National Innovation & Start-up Policy: ▪ As per mandate of MHRD is to ensure adoption of NISP by all the HEIs in a time bound manner, Institute has joined the NISP (National Innovation & Start-up Policy) campaign and have also started implementing the policy at Institute level. ▪ Dr. C. S. Malvi, Professor, Department of Mechanical Engineering is assigned the responsibility for initiating implementation of NISP at institute before beginning of the new academic year according to instructions from MHRD Innovation Cell/ AICTE. Dr. Malvi will work as coordinator for implementing the MHRD National Innovation & Start-up Policy at Institute level. <p>Annexure: National Innovation & Start-up Policy</p>
<p>Item-18</p>	<p>To apprise the House about the institute becoming a network institute of the IIRS outreach programme</p> <ul style="list-style-type: none"> ➤ Director of the Institute has informed the house that the Institute is now a network institute of following IIRS (Indian Institute of Remote Sensing)/ ISRO program: <ul style="list-style-type: none"> ▪ (Indian Space Research Organisation) outreach Programmes: IIRS Outreach Programme focuses on strengthening the academia and user segments in space technology & Its applications using Online Learning Platforms. Under this programme two mode of content delivery are employed using online platforms (i) Live & interactive mode and (ii) e-Learning mode. ▪ The programs are available through Internet without any cost to the user. The live and interactive sessions will be conducted by experts from IISR-ISRO and other knowledge Institutions. ▪ Prof. Aditya Kumar Agarwal, Assistant Professor, Department of Civil Engineering, has been appointed as the institute coordinator of IIRS Outreach Programme. ▪ The house appreciated the initiative of Institute to collaborate with IIRS/ISRO as this programme will help Faculty, Technical Staff members, research scholars and students to enhance their knowledge in remote sensing and geospatial technology using online simulated learning contents through self paced and learner centric e-learning courses. <p><i>Annexure: Guidelines of IIRS Programmes</i></p>
<p>Item-19</p>	<p>To apprise about the participation of Institute in the “Ek Bharat Shreshtha Bharat” Programme of Government of India</p> <ul style="list-style-type: none"> ➤ The initiative ‘Ek Bharat Shreshtha Bharat’ was announced by Hon'ble Prime Minister on 31st October, 2015. Through this innovative measure, the knowledge of the culture, traditions and practices of different states & UTs will lead to an enhanced understanding and bonding between the states, thereby strengthening the unity and integrity of India. ➤ Dr. Anjali Patil, Associate Professor, Department of Architecture is appointed as Institute coordinator for ‘Ek Bharat Shreshtha Bharat’ Programme. ➤ House appreciated the initiative of Institute to participate in Ek Bharat Shreshtha Bharat” Programme as Various cultural & academic activities will be organised under the initiative ‘Ek Bharat Shreshtha Bharat’ in the Institute, and same will enhance the interaction with other states of India.

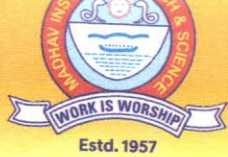
Item-20	<p>To report about the constitution of Universal Human Values & Professional Ethics Cell in the Institute.</p>																																																																								
	<p>➤ The house noted the following constitution of Universal <i>Human Values</i> & Professional Ethics Cell in the Institute:</p> <ul style="list-style-type: none"> ▪ As per AICTE Instructions, following Universal <i>Human Values</i> & Professional Ethics Cell is constituted in the Institute: <table border="0" style="margin-left: 20px;"> <tr> <td>Dr. Manish Sagar, Professor,</td> <td>Coordinator</td> </tr> <tr> <td>Dr. Anshu Chaturvedi, Professor,</td> <td>Member</td> </tr> <tr> <td>Dr. Sanjeev Khanna, Associate Professor,</td> <td>Member</td> </tr> <tr> <td>Prof. Vishal Chaudhry, Assistant Professor,</td> <td>Member</td> </tr> </table> ▪ The UHV & PE cell will work in coordination with Dean Student welfare of the Institute. ▪ The cell will ensure the implementation of AICTE instructions and Institute vision & Mission for Incorporating Universal Human Values & Ethics by creating the right understanding about human beings, family, society, natural environment, civilisation and professional ethics among the students to improve their life skills, employability and global competence significantly. 	Dr. Manish Sagar, Professor,	Coordinator	Dr. Anshu Chaturvedi, Professor,	Member	Dr. Sanjeev Khanna, Associate Professor,	Member	Prof. Vishal Chaudhry, Assistant Professor,	Member																																																																
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Item-21	<p>To report about student training on Future Skill Technologies through online mode by faculty trained at IITs</p>																																																																								
	<p>➤ The Academic Coordinator of TEQIP-III has informed the house about following participation and conduction of training on Future Skill Technologies through online mode by faculty:</p> <ul style="list-style-type: none"> ▪ 27 Faculty members of the institute have participated in Future Skill trainings at IITs in their respective areas. ▪ Further, faculty trained at IITs on these technologies will be imparting job-oriented training to the students of institute to make them industry ready for complying with the future skill requirements of IT-ITes industries. ▪ The details are as given below: 																																																																								
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Mr. Santosh Sharma	Data Science & Analytics	IIT Gandhinagar	15-07-2020	30-09-2020	50
Dr Vikas Mahor	Robotics & Automation	IIT Madras	15-07-2020	30-09-2020	50
Mr. Antaram Narayan Sarve	Data Science & Analytics	IIT Gandhinagar	15-07-2020	30-09-2020	50
Mr. Sayed Faiz Ahmad	Cyber Security	IIT Roorkee	06-07-2020	17-07-2020	50
Ms.Punjan Dohare	Robotics & Automation	IIT Madras	20-07-2020	30-09-2020	50
Mr. Shikha Jha	Data Science & Analytics	IIT Indore	24-08-2020	19-09-2020	50
Dr Radhika R	Data Science & Analytics	IIT Indore	24-08-2020	19-09-2020	50
Ms. Nupur Verma	Data Science & Analytics	IIT Indore	24-08-2020	19-09-2020	50
Mr. Chetan Sharma	Data Science & Analytics	IIT Gandhinagar	15-07-2020	30-09-2020	50
Dr. Pankaj Kumar	Robotics & Automation	IIT Kanpur	20-07-2020	07-09-2020	50
Mr. Vishal Kumar Ranjan	Cyber Security	IIT Roorkee	09-07-2020	30-09-2020	50
Dr Vijay Bhuria	Robotics & Automation	IIT Delhi	16-08-2020	31-10-2020	50

- The industry expert members of IQAC has suggested to collaborate these training program with industry experts for better understanding of above emerging areas of future skills.





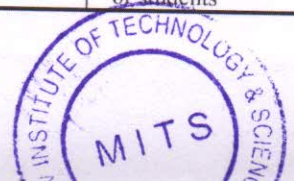
Item-22

To review the present status of performance benchmarks under TEQIP-III to be achieved in incremental manner up to June 2020 and September 2020.

- The Academic Coordinator of TEQIP-III has informed the house that, based on the inputs of MHRD and World Bank, the performance benchmarks of TEQIP-III have been revised considering special emphasis on MHRD/NPIU digital initiatives and remedial component. **These benchmarks are required to be achieved in incremental manner upto June 2020 and September 2020.** The benchmarks to be achieved upto June 2020 and September 2020 and present status of each benchmark is annexed as Annex-I.
- Institutions that achieved the target for June 2020 and September 2020 will be identified as well performing or otherwise. Incentivization of well performing institutions may be decided by MHRD in the forthcoming JRM based on availability of funds.

Annex-I: Performance Benchmarks (Targets June 30 and Sept 30, 2020)

S. No.	Category	Criteria	Target June 30, 2020	Target September 30, 2020	Present Status (as on 13.06.2020)
1	Financial	Actual Expenditure in academic activities out of PLA(academic head of expenditure)	75%	85%	75.38%
2	DLIs Status (till June 2020)	1. NBA Accredited/ applied for UG programs - 50% 2. Training completed for more than 70% final year students for exit exams 3. BoG meetings (July 2019-June 2020): 4 4. Autonomy (UGC/as per PIP)	Any 3	Not Applicable	Yes, three Parameters achieved. 1. 42.85% (03 programs are applied for). 2. 88%. 3. 04 BoG Meetings. 4. UGC Autonomous.
3	Academic	Availability of online student feedback system related to faculty in the current semester with few questions on remedial classes, use of MOOCs & digital boards for blended learning (feedback of at least 80% faculty available)	Yes (to be checked from URL link shared)	Yes (repeat) (to be checked from URL link shared)	Yes Online feedback is collected for 100% faculty members.
4		No. of subjects where remedial classes conducted (Proof for 2019-20 and July – September 20)	Min. 10 subjects all branches together	Min. 2 subjects all branches together	Yes Total number of subjects for which Remedial classes were conducted during 2019- 2020: 199
5		Training on IT-ITes Skills	Number of faculty trained at IITs: 5	Number of students trained at institute: 100	Yes 1. Number of faculty trained at IITs: 27 2. Training of 300 students is proposed during July-Sep. 2020.
6	R & D	R & D: 1. At least one Collaborative research project procurement completed and experimentation work started 2. At least one group of students	Yes	Yes (repeat)	Yes 1. The procurement has completed for 09 CRS projects and experimentation has also started. 2. The students group of CSE/IT department has participated in AICTE Smart India Hackathon.



		participated in SI Hackathon/e-yantra (IIT Bombay) OR project/internship using FOSSEE			3.The students of Institute have also done projects using software (FOSSEE)
7	ICT	Institute has 1. Two setup boxes of SWAYAM Prabha broadcasting on large TV Screens, use by stakeholders 2. Access to digital contents through e-shodhsindhu/shodhganga/ NDL/ e-PG Pathshala 3. Use of at least one open source software (FOSSEE) 4. Use of at least one Virtual Lab in regular curriculum 5. 30 % Faculty of institute registered on Vidwan 6. 40% Faculty certified for atleast one MOOCS/ SWAYAM/ NPTEL course	Any 4	Any 5	Yes, achieved all Six 1. Five Setup boxes of SWAYAM are available. 2. The Faculty & Students are registered on e-shodhsindhu/shodhganga/ NDL/ e-PG Pathshala. 3. Five software are being utilizing from FOSSEE. 4. Every department is utilizing virtual labs for UG & PG students. 5. 33% faculty members are registered on Vidwan portal. 6. 70% faculty members are certified from NPTEL/SWAYAM/Coursera/Other MOOCS.
<p>➤ The house appreciated the efforts of TEQIP-III team to implement the various initiatives under TEQIP-III to recognise the Institute by MHRD as well performing Institute.</p>					
Item-23	<p>To propose Award in terms of certificate & Financial Support to best employees of Institute annually.</p> <ul style="list-style-type: none"> As per advisory of various quality Assurance agencies like AICTE, NBA, NAAC etc for incentives and motivations to faculty/staff of Institution for research, innovations and development activities or for any other significant contributions for better governance, Internal quality Assurance Cell of the Institute has decided to extend this said support through following social contribution/motivation activity annually: ❖ Award in terms of certificate & Financial Support of an Amount of Rs. 51,000/- to best employees of Institute. The fund for same can be allocated in the annual Institution budget or same can be generated from any willing organization/industry fund annually as social contribution under the Corporate Social Responsibility (CSR), as government of India has also decided to allow corporate India to contribute to educational & research efforts in science, technology, medicine and engineering at major institutions. House also recommended, the name of Mr. Atul Chauhan, Assistant Registrar for the award in terms of certificate & Financial Support of an Amount of Rs. 51,000/- for his significant contribution towards IT support during COVID-19 Pandemic crisis to the institution to embark upon online teaching learning process to maintain continuity of the studies of the students and take every effort for students for easy access to the quality learning resource & internal assessment through Institute MOODLE. In the past Mr. Chauhan has also developed/customized the MOODLE for Institution for online teaching-learning, online attendance of students, faculty & staff, various feedbacks for the benefit of students and faculty/staff of Institute. 				

Item-
24

Any other matter with the permission of the Chair

- **Mr. Ajay Joshi, Industrialist, Appmaisters, Vadodra**, suggested that the objectives of Internship must be to acquire knowledge which can be used immediately in the industry especially of the areas that have significant demand so that it increases the chances of student a job in line with their calibre to demonstrate knowledge of tools, technologies & methodologies that help in differentiating students of MITS from others.
- **Mr. Ajay Joshi**, also expressed willingness to volunteer in designing the Summer Internship programs offered by Institute to increase the mapping of Internship modules with requirements of various IT industries. As IT industry today needs large number of employee with following skills:
 - ✦ Cloud
 - Micro services development
 - DevOps
 - SAAS frameworks
 - ✦ IOT
 - Massive amount of data ingestion using IOT gateways
 - Data Analysis while data is being ingested
 - Data Visualization and reflection using latest gadgets
 - ✦ Data Science
 - Unstructured Data Management (Cassandra)
 - Visualization using tools like Grafana & Kabana
 - Business Intelligence (Visualization tools like Tableau, PowerBI ETL tools like SSIS, Talend etc)
 - Big Data Analytics using R & Python
 - ✦ Front end Technologies like AngularJS, NodeJS (Which is not strictly front end)
 - ✦ Wearable Device programming whether it is on Android or iOS (Due to COVID there is huge amount of work being done in this space)
- In view of prevailing situation of remote teaching to students due to COVID-19, **Shri. Prashant Mehta**, Member, Board of Governors has suggested to develop "Institute Digital Academic Repository" containing articles, books, chapters, PhD dissertations, reports and lectures (Audio & Video) of Institute faculty and experts from all over the globe.

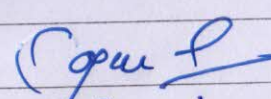
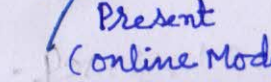
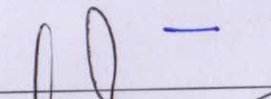
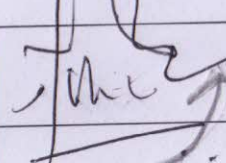

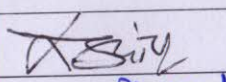
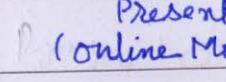

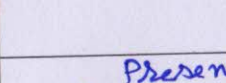
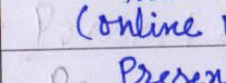

P. Pratesh

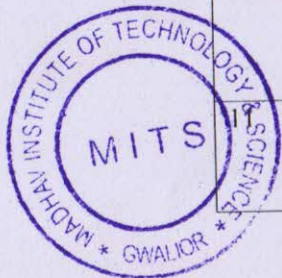
(Dr. Pratesh Jayaswal)
Coordinator IQAC

Date: 30.06.2020



R.K. Pandit
DIRECTOR
Madhav Institute of Technology & Science
Gwalior-474005 (M.P.)
DIRECTOR

S. No.	Name	Designation	Mobile/Phone No.	e-mail address	Signature
1	Dr. R.K. Pandit	Director	9926454902	director@mitsgwalior.in	 Present (online Mode)
2	Dr. (Prof.) I.K. Bhat	Vice Chancellor	9560807588	vc@mru.edu.in	 Present (online Mode)
3	Dr. S.G. Deshmukh	Director		Deshmukh.sg@gmail.com	
4	Shri Prashant Mehta, IAS	Member, Board of Governors	9893121999	Prashantmehta90@hotmail.com	
5	Er. Ramesh Agrawal	Secretary, SECS & Member BoG	9425115111	rameshagrawalexmla@gmail.com	
6	Dr. Keshav Pandey	Journalist	9425111819	Pandey.drkeshav4@gmail.com	
7	Er. Ashutosh Chincholikar	Business Head, Smart Controls India Ltd	9755040457	ashu@smartcontrols.in	 Present (online Mode)
8	Mr. Swapan Kumar Mukherjee	Independent Consultant & Former Country Head Sales Maruti India, Gurgaon.	9811799320	skmukherjee_1959@yahoo.co.in	
9	Mr. Ajay Joshi	Founder ERP Consultants India, Vadodara	9724554484	ajoshi@erpconsultantsindia.com	 Present (online Mode)
10	Mr. Yatindra Kumar Shrivastava	Principal Advisor SYSSTEAMZ Management Advisory Services, Pune	9650361166	yatindra.shrivastava@syssteam.com	 Present (online Mode)
	Mr. Rajnesh Khosla	Head of Human Resources LG Soft India Pvt. Ltd., Bangalor	8197055533 9899002220	rajnesh.khosla@lge.com rajnesh_khosla@yahoo.com	



12	Ms. Sakshi Shrivastava	Student, Electrical	8839019796	sshrivastava376@gmail.com Sakshishrivastava0751@gmail.com	<i>Present</i>
13	Mr. Kunal Abhishek	Student, Civil	7987022213 9534713942	Kunal26abhishek@gmail.com	<i>Present (online mode)</i>
14	Dr. Manjaree Pandit	Professor & Dean Academics	9826954902	Manjaree_p@mitsgwalior.in	<i>M. Pandit 30/6/2020</i>
15	Dr. P.K. Singhal	Professor & Exam Controller	9425341555	pks_65@mitsgwalior.in	<i>P.K. Singhal 30/6/2020</i>
16	Dr. R.K. Kansal	Professor & Dean Student Welfare	9165028102	rkansal19mitsgwalior.in	<i>R.K. Kansal 30/6/2020</i>
17	Dr. Akhilesh Tiwari	Professor & Head	9407204907	atiwari@mitsgwalior.in	<i>A. Tiwari 30.6.2020</i>
18	Dr. Manish Dixit	Professor	9425117866	dixitmits@gwaliormits.in	<i>M. Dixit 30/6/2020</i>
19	Prof. Rajni Ranjan Singh Makwana	Assistant Professor	9098054320	rrsingh@mitsgwalior.in	<i>R. Singh 30/6/2020</i>
20	Dr. Pratesh Jayaswal	Professor & Coordinator IQAC	9826561725	pratesh_jayaswal@mitsgwalior.in	<i>P. Jayaswal 30.6.2020</i>
21	Er. Vikram Rajput	Training & Placement Officer	8516057887	vikraram.rajput@mitsgwalior.in	<i>V. Rajput 30.6.2020</i>
22	Shri D. Gorakhpuri	Finance Officer	9425775845	dharmendra@mitsgwalior.in	<i>D. Gorakhpuri 30/6/2020</i>
23	Shri Atul Chauhan	Assistant Registrar	9425777001	atul@mitsgwalior.in	<i>A. Chauhan</i>

