

COMPLIANCE/ACTION TAKEN REPORT OF IQAC MEETING ON AUGUST 24th 2019

In Compliance to the decisions taken by IQAC in the meeting on 24th August 2019, following actions have been taken:

1. DEVELOPMENT OF A CENTRALIZED RESEARCH LAB

As approved by the IQAC, Centralized facility was developed for installing equipment procured under centrally funded schemes namely (i) Collaborative Research Scheme (CRS) for NPIU faculty (ii) NDF-RPS for the Ph.D students under NDF, at each department.

2. MONITORING MECHANISM FOR Ph.D CANDIDATES

According to the Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal (RGPV) guidelines (revised ordinance 11 Letter No. F-5/RGPV/Academic/2019/996 dated 02/05/2019) the Research Advisory Committee for each Ph.D. Scholars was constituted in the July-December 2019 semester as below:

The norms for the constitution of this committee

1. Head of the concerned department - Chairman.
2. One representative from the concerned department, possessing doctoral Degree - Member
3. One representative from the other department of the research centre (preferably from allied department), possessing doctoral degree - Member
4. Research supervisor of the scholar – Convener
5. Co- supervisor of the scholar, if he/she is from the same institute - Member
6. The convener shall nominate four expert, two each from the parent department and the other department. The head of the research centre shall then select one member each from the parent and other department.

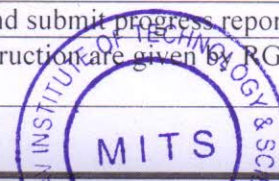
The RAC shall have the following responsibilities.

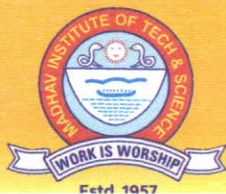
- I. To guide the research scholar in developing study structure and methodology for research.
- II. To identify the subjects of the course work.
- III. To review the research proposal and finalize the title of research before being submitted to the RDC.
- IV. To periodically review and assist the work of the research scholar.
- V. To evaluate the research work in view of the recommendation of the RDC, if any.
- VI. To conduct pre thesis seminar of the research scholar.
- VII. To verify the requirement of publications as per clause 9.6 of this ordinance.
- VIII. To ensure that draft thesis is free of any plagiarism as per provision of relevant UGC Regulation-2018.

Research Advisory Committee is constituted for each research scholar. The **six monthly Ph.D. review** was done by the RAC on (i) 7th September 2019 and (ii) 07th March, 2020

The following Notices were issues by the office of the Dean Academics/Director in this regard:

Date	Notice No.	Subject of the Notice
29/07/2019	953	To review performance of fulltime Ph.D. fellows/research Assistance in July 2018 recommend their continuance if found satisfactory
06/08/2019	967	Six monthly review Ph.D. candidates
28/08/2019	992	Ph.D. scholars required to report and submit progress report
17/09/2019	1009	Ph.D. revised ordinance no. 11 instructions are given by RGPV in the Ph.D. course work





The outcomes of these reviews are available in the files at Dean Academics office, with supervisors and also with the departments.

Notice (no 992 dated 28/8/2019) was also issued regarding discontinuation of Ph.D. registration through concerned supervisors in case of non-reporting/performing research scholars.

3. DETAILED INSTRUCTIONS AND GUIDELINES PREPARED FOR P.G. STUDENTS

The guidelines were framed by the Academic Development Cell for approval of the M.E./M.Tech Dissertation for final viva-voce examination, by the department.

Guidelines regarding eligibility of dissertation submission, mandatory condition of paper publication/presentation, plagiarism check guidelines etc. were prepared and circulated.

23/07/2019	949	Plagiarism guidelines for faculty/PG & PhD scholars
27/07/2019	951	Guidelines for submission of M.E./M.Tech Dissertation in soft copy
27/07/2019	952	Guidelines for approving M.E./M.Tech dissertation for final Viva-voce Examination

4. INITIATIVES TAKEN FOR CREATING GENDER EQUITY

According to IQAC guidelines, Girls Grievance Cell, Gender Champions (one girl, one boy) from each class are nominated for conducting activities like workshops, poster making, to create awareness about gender sensitivity, gender equity, safety, laws, safety at workplace etc.

A page and link regarding Girls Grievance Cell on the website and MOODLE is also created.

5. IMPLEMENTATION OF THE FLEXIBLE CURRICULUM

The Flexible curriculum was implemented for students admitted in academic year 2017-18.

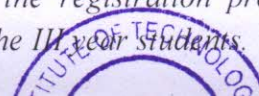
During July-Dec2019, the following Notices were issued by the office of the Dean Academics/Director in this regard:

Date	Notice No.	Subject of notice
07/11/2019	1027	Finalizing the list of Open Category (OC) courses
19/11/2019	1030	Discussion regarding OC Courses
25/11/2019	1031	Committees constituted for registration of OC and DEs
17/09/2019	1009	Ph.D. revised ordinance no. 11 instructions are given by RGPV in the Ph.D. course work

The compliance of this issue was also reviewed at the IQAC meeting on 30th November 2019, vide item no. 3 as below:

The house appreciated the following action taken for the implementation of the Flexible curriculum for students admitted in academic year 2017-18:

- The new provision of opting (i) open category electives and (ii) departmental electives from MOOCs is available to students of the Institute for the first time.
- Hence, a committee is constituted to coordinate the registration process of open/departmental elective courses (OCs/DEs) for the III year students.





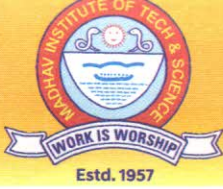
- The committee facilitated the dissemination of information regarding the provisions of opting for OCs/Des
- Presentation was uploaded on website and Flex banners were posted in the institute for creating awareness among the students
- Orientation programmes were conducted for III-year student, at the department level, on provisions of Flexible Curriculum.
- Two DEs will be offered in VI semester, one of which will be conducted through MOOCs and the other will be conducted in traditional mode.
- The DE to be conducted in traditional mode will offer about 3-4 options for students out of which at least one option will be a course to be conducted in collaboration with an Industry Expert.
- The Academic Development Cell (ADC) has charted out a general agenda for the Board of Studies well in advance to include all the provisions of the Flexible Curriculum which are to be initiated in the upcoming academic session.
- The meetings of respective Board of Studies were conducted between 17th to 24th November 2019 for proposing the course objectives & outcomes, detailed syllabi, list of experiments etc for the new theory & Lab courses to be offered.
- The same will be placed in the meeting of the Academic Council on 7th December 2019 for final approval.

The house also reviewed the proposed procedure of collection of students' choice to be collected through online mode for the registration/selection of open category courses.

The house appreciated the selected following **18 courses** to be offered under the open elective category during the January –April 2020 session for the VI semester students:

<i>Offering Department</i>	<i>Name of course</i>
Civil	<i>Building Physics</i>
	<i>Prefabricated Construction Technology</i>
Mechanical	<i>Product Design</i>
	<i>Robotics</i>
Electrical	<i>Biomedical Instrumentation</i>
	<i>Energy Conservation and Management</i>
Electronics	<i>Intelligent Control</i>
	<i>Embedded Systems</i>
CSE/IT	<i>Software engineering</i>
	<i>Python programming</i>
	<i>Data structures</i>
Chemical	<i>Fuels & Combustion</i>
	<i>Nanotechnology</i>
Biotechnology	<i>Bioinformatics</i>
Applied Science	<i>Statistical Methods (Maths)</i>
	<i>Astrophysics (Physics)</i>
	<i>Green Chemistry (Chemistry)</i>
Humanities	<i>Organizational Behaviour</i>





6. INITIATIVES TAKEN FOR IMPROVING TEACHING-LEARNING & OBE PRACTICES

The following initiatives were taken during July to December 2019:

- A two-day workshop on “Bloom’s Taxonomy for Assessment Design” was organized by the IQAC for OBE coordinators from all the departments with TEQIP-III sponsorship, on 13th-14th August, 2019. Dr Urmila Kar, Professor, Education & Management, NITTTTR, Kolkata was the expert. Tutorial sessions were also conducted to train the faculty for writing Intended Learning Outcomes (ILOs) and their mapping with Bloom’s Cognitive/affective/psychomotor domains. [Ref: Notice no 970 dated 08/08/2019]
- A Meeting of HoDs and OBE coordinator with Prof. D.P. Agrawal, Honourable member of BoG was held on 21st August 2019. The vision and mission statements were reviewed along with rubrics developed for mapping COs-POs & PEOs .

Vision: “To create world class quality Engineers & Technocrats capable of providing leadership in all spheres of life & society”

Mission Statements:

- To provide quality education in technical and allied disciplines
 - To organize and arrange innovative courses in Engineering and Technology
 - To arrange vocational courses in the upcoming fields and innovative subjects to meet global advancement
 - To promote research in the fields of Technology and Science.
- The following guidelines to review the Vision and Mission of Institute:
- Vision should be generic and well drafted.
 - Vision should be a futuristic statement that the institution / department would like to achieve over a long period of time
 - Vision does not change very often but mission does.
 - Mission statements are to be essentially the means to achieve the vision.
 - Statements should help in defining aspirations and to remain focused.
 - Should be written in a simple language, easy to communicate and should define objectives which present near future of the Institute
 - Vision statement is dream of where one wants the Institute to be and inspires all the stake holders
 - Mission statements are actionable statements that guide the stakeholders to act.

The feedback/comments from all stakeholders on existing statements & to modify the Vision & Mission of Institute.

The need for making the teaching-learning process more interactive & inclusion of open ended problems to challenge the students was advised.

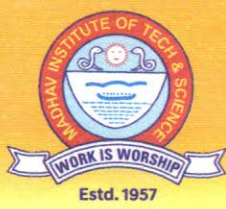
Need to give more weightage to continuous assessment was emphasized.

Attendance monitoring on a fortnightly basis through MOODLE: Format prepared and circulated [Notice no 972 dated 08th August 2019]

Notices were issued to promote digital teaching learning using the institute LMS, MOODLE

Date	Notice No.	Subject of notice
03/09/2019	Sent on mail	Action taken on poor MWI (MOODLE working index) of faculty
09/10/2019	1010	Regarding SWAYAM-NPTEL courses
17.10.2019	Through mail	Reminder about Alumni & Employer Satisfaction Survey

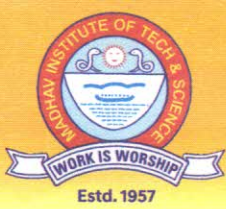




COLLABORATIVE RESEARCH SCHEME (CRS) PROPOSALS SUBMITTED UNDER TEQIP-III

S. No.	Title of the proposal	PI	Department	Approved Budget (Rs.)
1.	Health monitoring with energy conservation of ring frame 3 phase induction motor (RFTPIM) in textile industries using soft computing techniques	Mr. Sourabh Kumar Rajput	Electrical Engineering	13,77,000
2.	Design and Development of Portable Gnathodynamometer	Mr. Neeraj Mishra	Mechanical Engineering	14,64,000
3.	3D Modelling & Finite Element Analysis of Bio structure from CT Scan & MRI Data	Dr Dharmendra Jain	Mechanical Engineering	17,35,000
4.	Deciphering the comprehensive metabolic profiling from plant cell cultures of Pennisetum glaucum	Dr. Radhika, R	Biotechnology	19,64,000
5.	Analysis and control of noise pollution in hospitals	Dr. Naresh K. Raghuvanshi	Mechanical Engineering	21,83,000
6.	Performance Enhancement of solar Distillation system using Nanoparticles	Dr Amrat Kumar Dhamneya	Mechanical Engineering	12,90,000
7.	Cognitive Literary Studies for the Progress of Computational Cognitive Modelling	Dr Valuiur Rehaman	Dept of Humanities	7,16,000
8.	Nonlinear Mechanics of Elasto-Flexible Cables using Placement Model	Dr. Pankaj Kumar	Civil Engineering	10,58,000
9.	The three-dimensional approach in joint replacement technique to aid the orthopaedic surgeons	Ms. Punjan Dohare	Electrical Engineering	14,87,000
10.	Impact of renewable energy source integration on power system inertia: challenges and solutions	Ms. Bhavna Rathore	Electrical Engineering	11,57,000
11.	Synergic App Framework for Analysis and Detection of Information Leakage in Smartphones Applications	Mr. Rati Bhan	CSE and IT	8,85,000
TOTAL				1,53,16,000/-

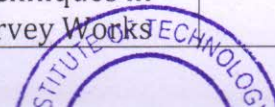


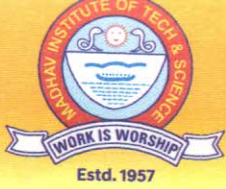


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Summer Internship Feedback of UG I Year Students

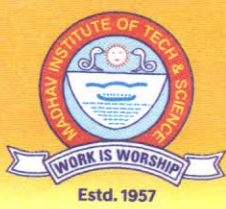
S.No	Faculty coordinator	Faculty Coordinator to whom to report	Module Name	Feedback Average
1.	Electrical Engineering department: Prof.Rakesh Narvey & Prof.Himmat Singh	Prof. Nipun Gupta & Prof. Tarun Shrivastava	Designing and modeling of Electrical Components	4.3
2.		Prof. G K Naveen Kumar & Prof. Shailendra Pratap Singh	Designing and modeling of Electronics Components	3.8
3.		Prof. Punjan Dohare & Prof. Rahul Sagwal	Introduction to MATLAB programming for Engineering applications	4.1
4.		Prof. Aprajita Kumari & Prof. Shweta Kumari	Electricity usage for Domestic and Industrial application	4.0
5.		Dr. Vikram and Prof. Bhavnarathore	Hands on Training on Signal/ Image Processing Toolbox in MATLAB	4.6
6.		Prof. Saurabh K. Rajput and Prof. Manoj Kumar	Introduction to Solar Photovoltaic and application of power Electronics switches in Solar Inverter	4.5
7.	Civil Engineering department: Prof. Deepak Rastogi	Prof. Shivam Gupta & Prof. Saurav Kakani	Use of Modern Surveying Techniques in Survey Works	4.5





8.		Prof. NupurVerma & Prof. Nishi Gangwar	In-house Testing of Engineering Materials	4.3
9.		Prof. Pankaj Kumar	Understanding of Building and Structural Elements through Model Making	3.8
10.	Mechanical Engineering Department: Dr.AmitAhirwar & Prof.VaibhavShivhare	Prof. KapilTyagiv & Prof. KostubhKhot	Conventional machine	NA
11.		Mr. Bharat sakwar (for hands on training in workshop)		
12.		Dr. Dharmendra Jain Prof. K.K. Yadav	Dismantling & assembling of two strokes & four Stroke Engine.	3.8
13.		Prof. Shubhamshriva stav & Prof. Sumit Singh	Repair and maintenance of a vehicle.	NA
14.		Prof. Utkarsh & shriva stava Prof. DhruvMaggu	Introduction to Auto CAD for Engineering Applications	4.3
15.	Electronics Engineering Department: Prof. Deepak Batham & Prof. Arun Chauhan	Dr. Vikas Mahor and Prof. Rakesh Naik	Training on PCB Designing & Circuit Wizard	4.2
16.		Dr. Ashish Gupta, and Prof. Deepak Batham	Training on MATLAB	3.5
17.		Prof. Aruna Chauhan, and Prof. Santosh Sharma	Training on Digital Circuit Design	4.2
18.		Prof. Saurabh Singh Raghuvanshi	Python for Engineers	4.2
18.		Mr. Lav Upadhyay	Front End Web Developer	4.2





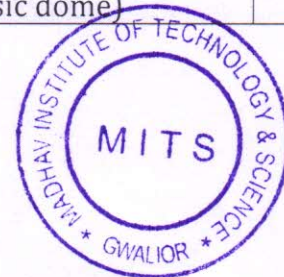
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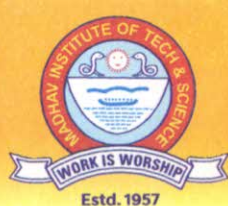
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19.	CSE & IT Department : Prof.VikasSejwar&Prof.A bhilashSonkar	Mr. DheerajGurjar	Computer Hardware & Networking	3.9
20.		Ms. PoojaAgrawal	Internet of Things (IoT)	4.6
21.		Mr. Sheo Kumar	Problem Solving Through Programming	3.7
22.		Mr. Mir Shahnawaz Ahmad	Python Programming With Applications To Machine Learning	4.2
23.		Mr. Mahesh Parmar	Android Based Application Development.	4.0
24.		Mr. AbhilashSonkar	Google Services	4.0
25.		Chemical Engineering department: Prof.Sulochana Nagar	Prof. ArtiSahu& Prof. Sulochana Nagar	Utility of Heat Transfer in Process Industry
26.	Dr. Antaram N. Sarve		Introduction to Analytical Instruments	4.5
27.	Entrepreneurship Development cell: Prof.Prabhkar Sharma	Dr.Prabhakar Singh Bhadouria (EDC)	Entrepreneurship Awareness Programme	4.3
28.	Department of Architecture Dr.S.SJadon	Ar.Priya Gupta Ar.ShefaliYadav	Earth Workshop(Raw and Rammed earth)	4.7
29.			Bamboo Workshop(Geode sic dome)	4.2





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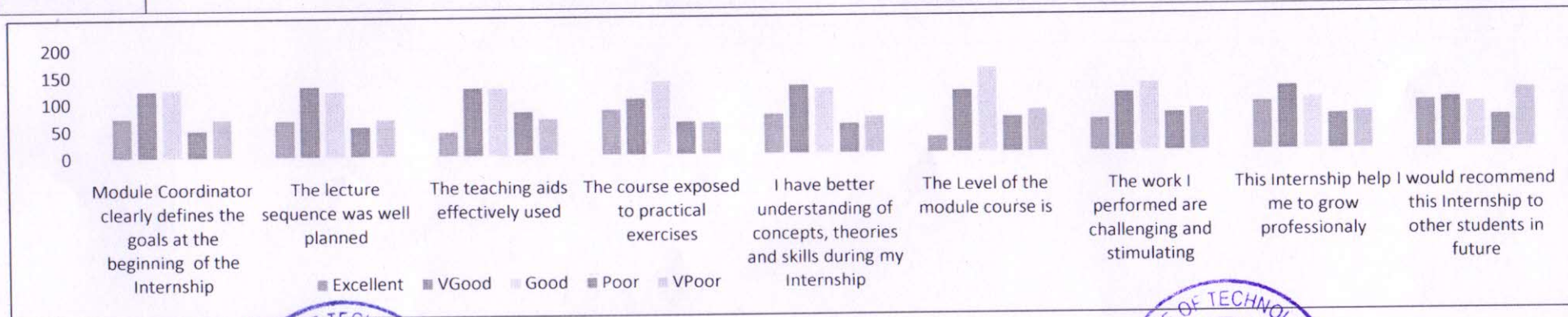
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Summer Internship Feedback of UGII Year Students

Department	Interdisciplinary								
Name of Module	Soft Skills								
Name of Faculty Coordinator	Dr.SanjeevKhanna								
Responses : 451									
	Module Coordinator clearly defined the goals at the beginning of the Internship	The lecture sequence was well planned	The teaching aids were used effectively	The course exposed me to practical exercises	I understood of concepts, theories and skills during my Internship	The Level of the module course is	The work I performed are challenging and stimulating	This Internship helped me to grow professionally	I would recommend this Internship to other students in future
Excellent	75	69	46	85	75	31	62	92	91
VGood	125	132	127	106	128	116	110	120	96
Good	128	123	127	137	123	158	128	99	88
Poor	51	57	82	62	56	66	72	67	62
VPoor	72	70	69	61	69	80	79	73	113
	3.2	3.2	3.0	3.2	3.2	2.9	3.0	3.2	3.0
Average	3.1								



P. Singh
 IQAC Coordinator
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