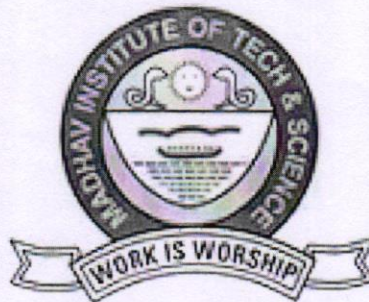


Annual Report
(2019-20)
of
Examination
(For All programs)



Mission to Innovate Technology for Society

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1. Introduction

The Examination Section of the institute meticulously worked during COVID-19 lockdown period for conduction, preparation and declaration of result of all the programs as per the guidelines of UGC and affiliating University (RGPV, Bhopal)

In view of the COVID-19 pandemic situation, as per the UGC guidelines, i.e. on-campus/off campus/remote location (as per students choice) in online mode [two hours duration exam in multiple shifts, through Multiple Choice Question (MCQ) /MCQ + Short Answers / MCQ + Short Answer + Oral Evaluation].

The institute framed the Policy for credit transfer for the courses offered through SWAYAM/NPTEL/MOOC (Massive Open Online Courses) platform for the preparation of result and marksheets. A separate slot for MOOC courses was made available in TR and marksheet both and it was approved that the passing criteria for MOOC courses will be 40 % in both internal and end term exam. The DE and OC course additional courses under the provision for Honours / Minor Specialization are also offered through SWAYAM /NPTEL based Learning with the same provision of credit transfer.

The revised guidelines for audit courses were framed and implemented in exam

The interested students who appear and qualify the examination are issued separate mark sheet as decided in the previous meeting of the Academic Council.

It was discussed and decided that from January 2020 onwards there should be a competency test at the departmental level itself (in place of an end semester examination at institution level) examination was also conducted online using MOODLE from 16th June to 24th June 2020.

2. Conduct of Exam Activities

Programme Name	Semester/Year	Last date of the last semester-end/ year- end examination	Date of declaration of results of the semester-end/ year-end examination
B.Tech. in Automobile Engineering (AU)	VIII	31-08-2020	02-09-2020
B.Tech. in Biotechnology (BT)	VIII	31-08-2020	02-09-2020
B.Tech. in Chemical Engineering (CM)	VIII	31-08-2020	02-09-2020
B.Tech. in Civil Engineering (CE)	VIII	31-08-2020	02-09-2020
B.Tech. in Computer Science Engineering (CS)	VIII	31-08-2020	02-09-2020

B.Tech. in Electrical Engineering (EE)	VIII	31-08-2020	02-09-2020
B.Tech. in Electronics Engineering (EC)	VIII	31-08-2020	02-09-2020
B.Tech. in Electronics & Telecommunication Engineering (ET)	VIII	31-08-2020	02-09-2020
B.Tech. in Information Technology (IT)	VIII	31-08-2020	02-09-2020
B.Tech. in Mechanical Engineering (ME)	VIII	31-08-2020	02-09-2020

3. Initiatives Taken for Examination Reforms

1. To streamline the result preparation and declaration process, it was decided to make the provision of a “*Result Declaration Committee*”. The major function of the committee will be to declare the results.

2. To speed up the valuation work and to offer flexibility to faculty members, it was decided to start “*Internet Based Digital Valuation*” from the May – June 2020 examinations.

3. To avoid any discrepancy, it was decided to start “*Result Audit*” before the printing of mark sheets.

4. The re-examination procedure for students who fail the courses (to be considered for credit transfer) under Departmental Electives (DEs) which are being offered through SWAYAM/NPTEL/MOOC based learning platforms will be as follows:

A. The re-examination for such students was conducted in traditional mode by the examination cell.

B. However, if the same course is being re-run (available for credit transfer) on the SWAYAM/NPTEL/MOOC platform, the student can opt to repeat the course in on-line mode also.

C. The guidelines issued by SWAYAM/NPTEL and other regulatory bodies in this regards from time to time will also be considered.

5. The guidelines for the award of Marks / Grades for SWAYAM/NPTEL/MOOC based courses for transfer of credits in the Scheme of Examination for UG / PG Programmes.

With the existing ‘theory’ and ‘practical’ blocks, it is proposed to have one additional block in the scheme structure (currently in practice) with the label ‘MOOCs’.

This new facilitation will accommodate the marks for courses being offered from the SWAYAM/NPTEL/MOOC platform based learning, against Departmental Electives (DEs) / Open Category courses with credit transfer provisioning at UG Engineering Programmes (under Flexible curriculum).

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Periods per week			Total Credits
			Theory Slot			Practical Slot		MOOCs			L	T	P	
			End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab work/ Sessional	Assignment	Exam					

The distribution of marks and passing provisions in the MOOCs block is proposed as follows:

End Sem. Exam with the provision of 75 marks (min. Pass marks 30) and Assignment /Quiz part with 25 marks (min. Pass marks 10) The total of 100 marks (min. Pass marks 40)

It is proposed to accept the above provisions for MOOCs (which are exactly as per the evaluation mechanism of the online course offering agency SWAYAM/NPTEL). Moreover, the proposed Grade & its numeric equivalent Grade Points is as follows -

GRADE	A+	A	B+	B	C+	C	D	F
GRADE POINTS	10	09	08	07	06	05	04	00
% Marks Range	>90 to 100	>80 to 90	>70 to 80	>60 to 70	>50 to 60	>40 to 50	40 Only	Below 40

The above Grade points are already in practice and are being applied for all PG Programmes being offered in the Institute.

It is proposed to adopt it for MOOC (SWAYAM/NPTEL) based courses in UG Engineering.

The same arrangement (i.e. the facilitation of additional slot for accommodating MOOC based courses & relating Grades/Marks) may also be made effective for the scheme of Examination pertaining to M.E./M.Tech./MUP/MCA Programme, as the provisioning to promote SWAYAM/NPTEL/MOOC platform based learning (under Departmental Electives (DEs), Open Category (OC) courses, MOOC courses and Self Learning /Presentation is being inducted at PG Programmes level also.

6. Eligibility criteria for opting Honours or Minor Specialization.

The house was informed that, under the flexible curriculum, the provision of opting for additional courses/credits (for Honours in parent discipline or Minor Specialization in allied discipline) was made available to students from B.Tech. 5th semester onwards.

To retain the quality, it was discussed that some rider/basic criteria must be fixed before allowing the students to opt for Honours or Minor Specialization.

In this context, it was decided to fix the basic criteria of 6.5 CGPA / 65% for allowing the students to opt for Honours or Minor Specialization. Moreover, for students aspiring for honours or minor specialization, it will be required to maintain the CGPA at 6.5 throughout the degree; else they will not be eligible to continue their aspirations for getting an Honours degree or Minor Specialization.

7. Mode of internal presentation and External Viva Voce exam of M.E./M.Tech/MUP Dissertation

In view of the COVID-19 pandemic situation, it is proposed to arrange / conduct the internal presentation and final end term external viva voce exam of M.E./M.Tech/MUP Dissertation through video conferencing mode, so that students can complete their dissertation work in a timely manner. Further, it will be required to abide with all the regulations/publication requirement/ practices (including plagiarism policy) before considering the case for internal presentation.

8. **Following activities are to be conducted for the indirect assessment of COs of all courses for all UG & PG programmes.**

a) Course end seminar (weight 10%)

b) One minute paper writing (weight 5%)

c) CO feedback for each course (weight 5%)

d) For the smooth implementation of this activity detailed instructions and formats were prepared by the ADC.

e) The activity was conducted just before the beginning of practical examinations in November 2019.

f) On the basis of students' presentations in groups of about 5, the assessment will be done by faculty members in levels (1, 2 or 3).

g) The levels will be based on (i) demonstration/understanding of the course outcome (ii) presentation (iii) communication (iv) team work & (v) Ethics

4. Role of ICT in Exam

The institute successfully conducted end sem exam of all programs by using ICT tools like MOODLE (LMS), google meet and drive with define guidelines in order to safeguard the larger interest of students as per following guidelines :

1. The Examination for Academic Session Jul- Dec 2020 will be conducted online.
2. As per the nature of the courses (Theoretical/Mathematical or Computational/Design or Drawing), end semester examination will be based on MCQ based/Open book / Assignment plus Oral type of question papers.
3. The total duration of exam will be 2 hrs.
4. The department must maintain the record of attendance for Assignment plus Oral and MCQ based Exam for future reference
5. The department must share the folder of Answer books of Assignment plus Oral based exam with exam@mitsgwalior.in

Recommendations for MCQ based question paper exam:

1. Theory based courses may be considered under this category.
2. MCQ based question paper exam will be conducted through MOODLE.
3. The question paper will be uploaded by the approved faculty of the department, one day before the examination and maintain the integrity of exam.
4. The question paper will be set for maximum marks 70 or as proposed in the scheme of the respective department for the end sem exam.
5. Faculty member of the department as per the approved list from the director will prepare 140 questions and float 70 questions (1 mark each) upon random selection
6. The setting of Quiz must be such that the answers or marks should not be reflected in the student's account.
7. The Quiz will be entitled as "End Sem Exam Dec 2020 subject code".

Recommendations for Open Book based question paper exam:

1. Questions paper will be set as per the conventional type and student will attempt any three questions out of five.
2. Open Book based question paper exam will be conducted through Examination Cell, therefore the HOD will send the question paper to Examination Cell as per the deadline issued in future course of time.
3. The student will submit the scanned Answer book through MOODLE at the link provided by examination cell with in a specific time on the day of Examination only. Any delay or error in submission of Answer book will not be entertained at all.
4. The Answer books will be shared to concerned faculty for valuation through online mode and marks will be submitted to exam section

Recommendations for Assignment plus Oral based question paper exam:

1. Assignment plus Oral based question paper exam will be conducted through MOODLE by approved faculty member of the department.
2. Assignment based Question paper will be set of Maximum marks 50 (for MM=70) and no of question will be 05 (10 marks each)
3. The scanned Answer Book will be submitted by students at the link provided by the faculty on the top of question paper in bold letters within 30 minutes of finish of exam.
4. The faculty will share the link with HOD and exam controller only and provide the access to upload the answer books to the students who have enrolled for the exam Dec 2020
5. The department will conduct Oral exam of 20 marks through any online platform on the same day just after submission of Answer books. (Please note that the link for conducting oral exam must be communicated to all students well in advance)
6. The Assignment will be entitled as "End Sem Exam Dec 2020 subject code".

The efficiency of usage of LMS)was Computed as MOODLE working index (MWI) for enhancing digital teaching -learning and assessment

1. This initiative was very successful. By the end of the session it was found that all faculty members started using MOODLE for all 10 identified teaching-learning-evaluation activities.
2. The average MWI of the institute was 9.41 out of 10.
3. For five core departments it was 100% i.e 10 out of 10 in November 2019.
4. Online/open book mid-semester examination: In view of COVID 19 pandemic situation, the mid-semester II was conducted online on MOODLE from 26th April to 2nd May 2020.

5. SUMMARY OF QUESTION BANKS/QUESTION PAPERS FOR SESSION 2019-20 (REGULAR)

S. No.	Description	December Session (Odd Semester)	June Session (Even Semester)
1	Number of Question Papers Allocated	547	535
2	Number of Faculty Members Participated	107	114
3	Total Number of Question Papers Generated	463	431
4	Category Wise Question Papers :	463	431
5	Number of Question Papers Set Externally	39	28
6	Percentage of Question Papers Set Externally	8%	7%
7	Number of External Paper Setters	26	19

6. Evaluation

Digitization of valuation: During COVID-19 Lockdown period (Jan-June 2020 session)I phase of MCQ based End Sem Exam for Final year(Passing out batch) were conducted via online Mode through We Shine Tech Pvt Ltd, Pune. Later, Phase II and Special Exams were conducted online with traditional question paper pattern.

Further, Online digital valuation was conducted as the scanned answer books were submitted by the students at the link provided by the Controller Exam through MOODLE. The day wise record of answer books was maintained in the google drive of Controller of Exam g-mail account. The Answer Books were shared to valuers (as per the recommendation of HoD) at their mail account along with the question papers and marks award list.

Session	Dec 2019	June 2020
No.of Answer Books Evaluated	17795	2522 (due to

		COVID-19 Lockdown)
No. of faculty members involved in evaluation	187	80

7. Result Analysis

Odd Semester (Dec, 2019)

S.No	Branch Name	Semester	No. Of students registered	No. Of students passed	Pass %	No. of Students With Over All Grade						
						A+	A	B+	B	C+	C	D
1.	CE	I	138	95	68	0	7	29	36	22	1	0
		III	133	102	76	4	24	45	25	4	0	0
		V	123	105	85	0	12	33	40	20	0	0
		VII	135	114	84	4	18	49	37	6	0	0
2.	ME	I	136	103	75	0	8	24	44	25	2	0
		III	139	97	69	0	4	35	44	14	0	0
		V	125	99	79	0	6	36	39	17	1	0
		VII	125	111	88	1	21	45	37	7	0	0
3.	AU	I	68	39	47	0	1	9	23	6	0	0
		III	58	29	50	0	1	10	11	7	0	0
		V	41	34	82	0	3	8	17	6	0	0
		VII	62	56	90	0	6	43	22	14	0	0
4.	EE	I	137	129	94	1	22	58	38	10	0	0
		III	139	105	75	1	11	45	36	12	0	0
		V	119	96	80	0	11	32	43	10	0	0
		VII	146	136	93	0	15	66	47	8	0	0

5.	EC	I	135	123	91	2	35	53	26	7	0	0
		III	122	103	84	5	20	49	22	7	0	0
		V	113	95	84	0	12	35	43	5	0	0
		VII	141	127	90	1	18	61	36	11	0	0
6.	ET	I	64	61	95	3	12	25	17	4	0	0
		III	65	45	69	0	7	16	14	8	0	0
		V	56	47	85	0	4	16	22	6	0	0
		VII	44	39	88	0	6	13	13	7	0	0
7.	CSE	I	141	132	93	0	35	66	24	7	0	0
		III	135	113	83	1	23	52	28	9	0	0
		V	133	116	87	0	11	51	44	10	0	0
		VII	143	134	93	0	16	69	43	6	0	0
8.	IT	I	68	68	100	0	10	41	14	3	0	0
		III	66	60	90	2	17	19	18	4	0	0
		V	63	60	95	0	15	30	14	1	0	0
		VII	68	65	95	0	7	38	19	1	0	0
9.	CM	I	63	41	65	0	6	10	18	6	1	0
		III	51	43	84	0	3	12	13	15	0	0
		V	47	44	93	0	3	8	20	13	0	0
		VII	52	47	90	0	4	20	16	7	0	0
10.	BT	I										
		III	8	5	62	0	1	3	1	0	0	0
		V	4	4	100	0	0	2	2	0	0	0
		VII	9	9	100	0	1	5	3	0	0	0
11.	B Arch	I	40	32	80	0	4	21	7	0	0	0
		III	36	33	91	0	3	19	11	0	0	0

		V	38	38	100	0	14	18	6	0	0	0
		VII	39	38	97	0	11	21	6	0	0	0
		IX	29	29	100	0	2	27	0	0	0	0
12.	ME.	I	21	13	62	0	5	5	3	0	0	0
		III	40	37	93	0	9	25	3	0	0	0
13.	M.Tech	I	30	26	87	1	2	18	5	0	0	0
		III	42	39	93	0	11	20	5	3	0	0
14.	MUP	I	12	12	100	0	4	8	0	0	0	0
		III	15	15	100	0	7	4	4	0	0	0
15.	MCA	I	19	17	89	0	1	11	5	0	0	0
		III	59	48	81	1	3	22	20	2	0	0
		V	63	56	88	1	14	33	8	0	0	0

Even Semester (June 2020)

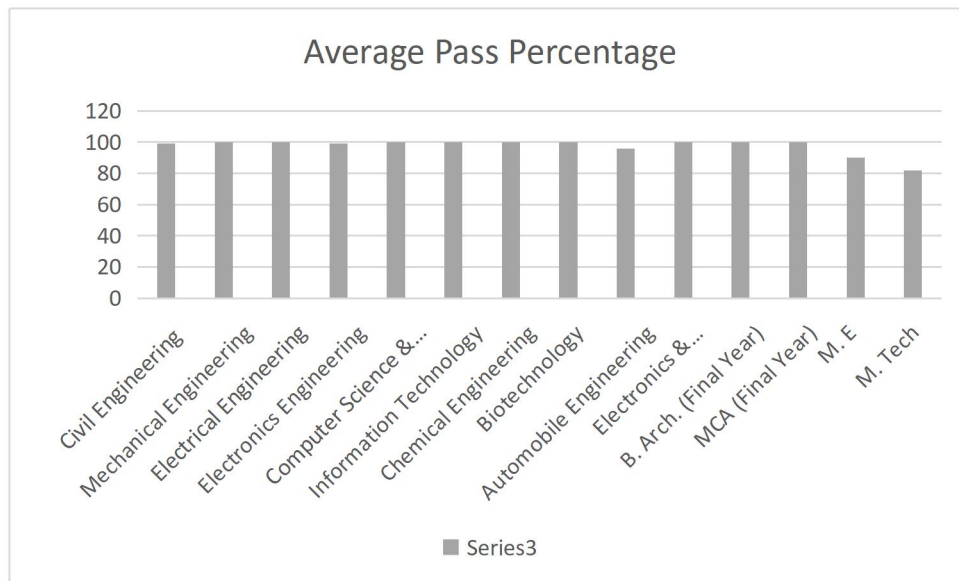
S.No	Branch Name	Semester	No. Of students registered	No. Of students passed	Pass %	No. of Students With Over All Grade						
						A+	A	B+	B	C+	C	D
1.	CE	II	137	135	98	15	70	33	11	6	0	0
		IV	131	121	92	18	46	38	15	1	3	0
		VI	130	127	97	7	58	50	10	2	0	0
		VIII	139	138	99	13	70	48	7	0	0	0
2.	ME	II	136	125	91	11	48	46	18	2	0	0
		IV	137	135	98	11	63	36	22	3	0	0
		VI	128	124	96	11	70	38	5	0	0	0

		VIII	133	133	100	8	79	39	7	0	0	0
3.	AU	II	65	56	86	1	10	32	11	2	0	0
		IV	60	60	100	3	19	21	14	3	0	0
		VI	50	47	94	2	27	15	2	1	0	0
		VIII	62	60	96	4	30	24	2	0	0	0
4.	EE	II	137	137	100	17	73	35	11	1	0	0
		IV	137	135	98	19	72	34	7	3	0	0
		VI	131	127	96	15	62	39	6	5	0	0
		VIII	145	145	100	17	93	33	2	0	0	0
5.	EC	II	135	128	94	12	76	21	16	3	0	0
		IV	120	119	99	26	62	25	5	1	0	0
		VI	124	119	95	18	75	20	6	0	0	0
		VIII	138	137	99	3	86	43	5	0	0	0
6.	ET	II	65	65	100	8	30	18	7	1	1	0
		IV	63	60	95	5	26	24	4	1	0	0
		VI	60	55	91	2	29	20	4	0	0	0
		VIII	47	47	100	3	26	13	5	0	0	0
7.	CSE	II	141	138	97	19	90	22	4	3	0	0
		IV	132	132	100	11	63	39	14	4	1	0
		VI	142	133	93	11	76	42	3	1	0	0
		VIII	147	147	100	10	92	42	2	1	0	0
8.	IT	II	68	68	100	4	44	19	1	0	0	0
		IV	65	65	100	19	20	23	3	0	0	0
		VI	67	64	95	16	39	8	1	0	0	0
		VIII	68	68	100	1	40	23	4	0	0	0
9.	CM	II	62	55	88	5	23	14	13	0	0	0

		IV	51	50	98	3	19	22	5	1	0	0
		VI	49	46	93	3	17	17	8	1	0	0
		VIII	51	51	100	5	29	17	0	0	0	0
10.	BT	II	-	-	-	-	-	-	-	-	-	-
		IV	8	7	87	4	1	0	2	0	0	0
		VI	4	4	100	0	4	0	0	0	0	0
		VIII	9	9	100	1	7	0	1	0	0	0
11.	B. Arch	II	39	38	97	2	18	17	1	0	0	0
		IV	36	36	100	0	17	17	2	0	0	0
		VI	38	38	100	3	29	6	0	0	0	0
		VIII	39	39	100	0	19	19	1	0	0	0
		X	29	29	100	4	25	0	0	0	0	0
12.	M E	II	20	20	100	2	9	8	1	0	0	0
		IV	20	18	90	2	14	2	0	0	0	0
13.	M. Tech	II	30	29	97	2	20	4	2	1	0	0
		IV	17	14	82	1	2	10	1	0	0	0
14.	MUP	II	12	12	100	0	5	7	0	0	0	0
		IV	-	-	-	-	-	-	-	-	-	-
15.	MCA	II	19	19	100	1	15	3	0	0	0	0
		IV	58	58	100	3	28	26	1	0	0	0
		VI	63	63	100	11	50	2	0	0	0	0

8. Average Pass Percentage (2019-20)

Programme Code	Programme Name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass %
B.E. (Final Year)	Civil Engineering	139	138	99
	Mechanical Engineering	133	133	100
	Electrical Engineering	145	145	100
	Electronics Engineering	138	137	99
	Computer Science & Engineering	147	147	100
	Information Technology	68	68	100
	Chemical Engineering	51	51	100
	Biotechnology	9	9	100
	Automobile Engineering	62	60	96
	Electronics & Telecommunication Engineering	47	47	100
B. Arch. (Final Year)	Architecture	29	29	100
MCA (Final Year)	Master in Computer Application	63	63	100
M.E. (Final Year)	Construction Technology & Management Communication Control & Networking Industrial Systems & Drives	20	18	90
M.Tech. (Final Year)	Environmental Engineering Computer Science & Engineering Information Technology Microwave Engineering Production Engineering	17	14	82



9. Grievances reported by students regarding evaluation process (2019-20)

No. Of students appeared in exam	No. of grievances reported	% of grievances
4276	36	0.84%