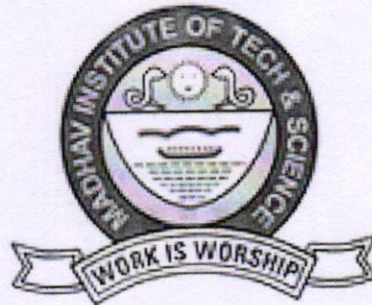


# Annual Report (2020-21)

of

# Examination (For All programs)



Mission to Innovate Technology for Society

**Madhav Institute of Technology & Science**  
Race Course Road, Gole Ka Mandir  
Gwalior, Madhya Pradesh 474005



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# 1. Introduction

During COVID-19 pandemic Lockdown period, stakeholders of institute have expressed their concern about the examination. Taking note of the genuine concern of the students, faculty members and parents, it was proposed to conduct the end semester online examination (theory and practical) in mixed mode as per the nature of courses/subjects (based on blooms taxonomy/learning levels) for July-Dec. 2020 semester and in future also (as and when applicable or desired), as detailed below:

Nature of Subject/Course	Theory/ Practical	Learning Levels	Preferable Mode of Examination
Theoretical	Theory	Remembering, Understanding, Applying	MCQ Based
Computational/ Mathematical	Theory	Applying, Analysing	Open Book
Design / Drawing	Theory	Applying, Analysing, Evaluating, Creating	Assignment + Oral
Practical (Knowledge/ Application)	Practical	Understanding, Applying	Oral
Practical (Design/Analysis)	Practical	Analysing, Evaluating	Assignment + Oral
Projects	Practical	Creating, Evaluating, Analyzing	Project Report + Oral

The MCQ / Open Book exam will be conducted for two hours duration in the online mode.

The above changes in the examination pattern could be made possible due to well-established & efficient Examination Management System where processes related to Pre Examinations, conduct of examinations, and Post Examination activities are controlled & monitored by the Examination Cell. The automation has resulted in an extensive improvement in the efficiency and transparency of the Examination Department and other stakeholders such as teachers and has also provided an effective method for parents and students to track performance during the complete lockdown period also.

Considering the provisions and scope under the Academic Autonomy from UGC, the end term practical examination (except PG dissertations) were conducted online, through the internal panel of subject matter experts / faculty members.

The institute prepares an Academic Calendar in the beginning of the Academic Session. The schedule of all the important academic activities is planned well in advance and disseminated to all stakeholders through hard as well soft copies. The calendar is strictly followed. Even during the pandemic times, all academic activities, mid-semester examinations, quizzes for continuous assessment, In-House Summer Internship Programmes, Finishing School, Final year internship, employability skill training, remedial classes etc. were conducted as scheduled.

Except the first year, which is admitted through the centralized state/central government admission process, which is beyond the control of the institute, rest all classes were started as per schedule announced earlier. Even the examination and result declaration process was completed within time.

## 2. Conduct of Exam

<b>Programme Name</b>	<b>Semester</b>	<b>Last date of the last semester-end/ year- end examination</b>	<b>Date of declaration of results of the semester-end/ year-end examination</b>
B.Tech. in Automobile Engineering (AU)	VIII	06-06-2021	06-07-2021
B.Tech. in Biotechnology (BT)	VIII	06-06-2021	06-07-2021
B.Tech. in Chemical Engineering (CM)	VIII	06-06-2021	06-07-2021
B.Tech. in Civil Engineering (CE)	VIII	06-06-2021	06-07-2021
B.Tech. in Computer Science Engineering (CS)	VIII	06-06-2021	06-07-2021
B.Tech. in Electrical Engineering (EE)	VIII	06-06-2021	06-07-2021
B.Tech. in Electronics Engineering (EC)	VIII	06-06-2021	06-07-2021
B.Tech. in Electronics & Telecommunication Engineering (ET)	VIII	06-06-2021	06-07-2021
B.Tech. in Information Technology (IT)	VIII	06-06-2021	06-07-2021
B.Tech. in Mechanical Engineering (ME)	VIII	06-06-2021	06-07-2021

## 3. Initiatives taken for Examination Reforms

1. Reframing Scheme of Examination for UG programs: In order to unburden the students and to give them the scope for all round development, which is the need of the current market scenario; it was proposed to adjust the credit requirement to 160 credits for the award of the B.Tech degree with effect from the 2020-21 admitted batch. However, it is required to earn 20 additional credits (through SWAYAM/NPTEL/MOOC based learning platforms) i.e. 160 +20, for the award of Honours degree in the parent discipline / Minor Specialization in other discipline. In continuation, it was implemented that weightage /ratio of end-term assessment and continuous internal evaluation /assessment as 60:40 in the scheme structure of UG (B.Tech programmes) w.e.f the academic session 2020-21.
2. Scheme for all PG programs were reframed as per Choice Based Credit System and provision of department and open electives were introduced.
3. One course through SWAYAM/NPTEL/MOOC based platform with credit transfer for the purpose of Ph.D. course work was introduced.
4. Approval of eligibility criteria for the award of degree with Honors and Minor Specialization at UG level

*“The minimum CGPA required for the award of B. Tech degree with Honors is 6.5 CGPA up to VIII semester, and the duration of completion of degree must be the stipulated time period i.e. 04 years only”*

*“For the award of B. Tech degree with “Minor Specialization”, students must complete their degree in the stipulated time period of four years only”.*

Provision of weightage towards the “course proficiency” component in the end semester (theory part) for every course (except the Departmental Lab Course) is effective from the batch admitted 2020-21 onwards. Of the total 60 marks the weightage of 10 marks will be considered towards the “course proficiency” wherein the ability/ skill/ competence /knowledge level /expertise attained /attendance etc. in that particular course/subject will be assessed through various other activities such as ‘course end seminar, one-minute paper writing’ etc. The end term evaluation will be of 50 marks (through the end term examination).

**5. To promote skill development and creativity, provision of ‘Skill Based Mini Project’ for every course/subject (of practical nature) except for the Departmental Lab Course (DLC). The weightage of 20 marks will be given for the ‘Skill Based Mini Project’ (under the practical part of the scheme) in the flexible scheme/ curriculum with effect from the batch admitted 2020-21 onwards**

To consider the proposal for the inclusion of ‘Mandatory Audit Courses’ (MAC) for the admitted batch 2020-21 onwards.

6. Revised “Mandatory Audit Courses” at the UG level for the batch admitted 2020-21 onwards.

Semester	Course
3 <sup>rd</sup> / 4 <sup>th</sup>	Biology for Engineers
3 <sup>rd</sup> / 4 <sup>th</sup>	Indian Constitution and Traditional Knowledge
5 <sup>th</sup>	Disaster Management
6 <sup>th</sup>	Intellectual Property Rights (IPR)

Moreover, the end term examination of above was conducted by the examination section of the institute and grades were shown on the respective mark-sheets; however, there was no credits for these MACs.

7. Normalization of marks of institute level examinations, against the SWAYAM / NPTEL examinations was made to maintain parity between the two examinations,

8. Guidelines for conducting evaluation of courses using (i) “Assignment plus oral” mode (ii) “pen and paper mode were prepared.

9. Publication (in journal or conference proceeding OR presentation of paper in a conference) of one paper out of the major project is a mandatory requirement for acceptance of the final report. (Notice no. DA/MP/1121 dated 12.02.2020)

10. During the COVID-19 all the projects were completed in online mode. The following is the department-wise status of paper presentation/publication:

11. The B E Project paper presentation details are available on department webpage and reports after plagiarism check using turnitin are uploaded on the MOODLE repository.

12.

#### 4. SUMMARY OF QUESTION BANKS/QUESTION PAPERS FOR SESSION 2020-21 (REGULAR)

S. No.	Description	December Session (Odd Semester)	June Session (Even Semester)
1	Number of Question Papers Allocated	411	492
2	Number of Faculty Members Participated	111	107
3	Total Number of Question Papers Generated	362	478
4	Category Wise Question Papers :		
	(a) Pen & Paper	227	259
	(b) Multiple Choice Questions (MCQ)	120	203
	(c) Assignment Plus Oral	15	16

#### 5. Evaluation

**Digitization of valuation:** During the academic year 20-21, the scanned answer books submitted by the students (due to Lockdown) at the examination google drive were made available for evaluation to Faculty members. The online remote valuation was made transparent and confidential.

Session	Dec 2020	June 2021
No. of Answer Books Evaluated	<b>18168</b>	<b>13859</b>
No. of faculty members involved in evaluation	<b>256</b>	<b>202</b>

#### 6. Result Analysis

##### Odd Semester (Dec, 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	I	137	127	92	03	50	49	19	06	00	00
		III	155	136	87	45	76	14	01	00	00	00
		V	145	128	88	12	48	52	16	00	00	00
		VII	123	118	95	09	74	32	03	00	00	00
2.	ME	I	130	120	92	04	62	45	07	02	00	00
		III	150	142	94	20	65	50	07	00	00	00
		V	143	141	98	07	54	60	18	02	00	00
		VII	122	120	98	10	82	27	01	00	00	00

3.	AU	I	35	34	97	00	08	20	06	00	00	00
		III	68	58	85	01	30	24	03	00	00	00
		V	71	66	92	06	28	18	14	00	00	00
		VII	41	41	100	03	33	05	00	00	00	00
4.	EE	I	136	132	97	09	70	36	15	02	00	00
		III	155	149	96	40	85	23	01	00	00	00
		V	149	136	91	03	69	50	13	01	00	00
		VII	119	119	100	21	79	15	04	00	00	00
5.	EE(IOT)	I	68	66	97	12	39	12	02	01	00	00
		III	-	-	-	-	-	-	-	-	-	-
		V	-	-	-	-	-	-	-	-	-	-
		VII	-	-	-	-	-	-	-	-	-	-
6.	EC	I	136	133	97	43	76	14	00	00	00	00
		III	135	132	97	37	74	20	01	00	00	00
		V	133	124	93	07	82	27	07	01	00	00
		VII	111	110	99	14	80	15	01	00	00	00
7.	ET	I	64	62	96	12	38	10	02	00	00	00
		III	67	66	98	08	47	09	02	00	00	00
		V	66	63	95	00	38	22	03	00	00	00
		VII	56	55	98	01	45	09	00	00	00	00
8.	CSE	I	129	124	96	17	68	34	04	01	00	00
		III	151	146	96	44	81	18	03	00	00	00
		V	143	132	92	08	87	34	03	00	00	00
		VII	131	129	98	15	92	17	05	00	00	00
9.	IT	I	66	65	98	14	33	14	03	01	00	00
		III	75	71	94	12	47	12	00	00	00	00
		V	68	66	97	16	33	14	02	01	00	00
		VII	62	61	98	09	39	12	01	00	00	00
10.	IT (AIR)	I	67	67	100	11	49	07	00	00	00	00
		III	-	-	-	-	-	-	-	-	-	-
		V	-	-	-	-	-	-	-	-	-	-
		VII	-	-	-	-	-	-	-	-	-	-
11.	IT (IOT)	I	66	65	98	19	39	07	00	00	00	00
		III	-	-	-	-	-	-	-	-	-	-
		V	-	-	-	-	-	-	-	-	-	-
		VII	-	-	-	-	-	-	-	-	-	-
12.	CM	I	41	41	100	00	14	18	08	01	00	00
		III	59	55	93	07	36	12	00	00	00	00
		V	56	53	94	01	25	21	03	03	00	00
		VII	47	46	97	04	27	14	01	00	00	00
13.	BT	I	-	-	-	-	-	-	-	-	-	-
		III	-	-	-	-	-	-	-	-	-	-
		V	08	08	100	04	01	02	01	00	00	00
		VII	04	04	100	00	03	01	00	00	00	00
14.	MAC	I	65	65	100	33	28	04	00	00	00	00
		III	-	-	-	-	-	-	-	-	-	-
		V	-	-	-	-	-	-	-	-	-	-
		VII	-	-	-	-	-	-	-	-	-	-

15.	Arch	I	37	37	100	00	07	21	07	02	00	00
		III	39	36	92	04	18	12	02	00	00	00
		V	36	36	100	01	20	13	01	01	00	00
		VII	38	38	100	01	27	10	00	00	00	00
		IX	38	38	100	00	09	29	00	00	00	00
16.	M.E.	I	25	24	98	01	15	07	01	00	00	00
		III	23	21	96	04	07	08	02	00	00	00
17.	M. Tech	I	32	31	97	01	23	07	00	00	00	00
		III	34	34	100	00	17	11	06	00	00	00
18.	MUP	I	14	13	92	00	03	06	04	00	00	00
		III	13	12	92	00	02	10	00	00	00	00
19.	MCA	I	61	60	98	13	37	10	00	00	00	00
		III	20	20	100	07	10	03	00	00	00	00
		V	58	58	100	08	39	10	01	00	00	00

## Even Semester (June 2021)

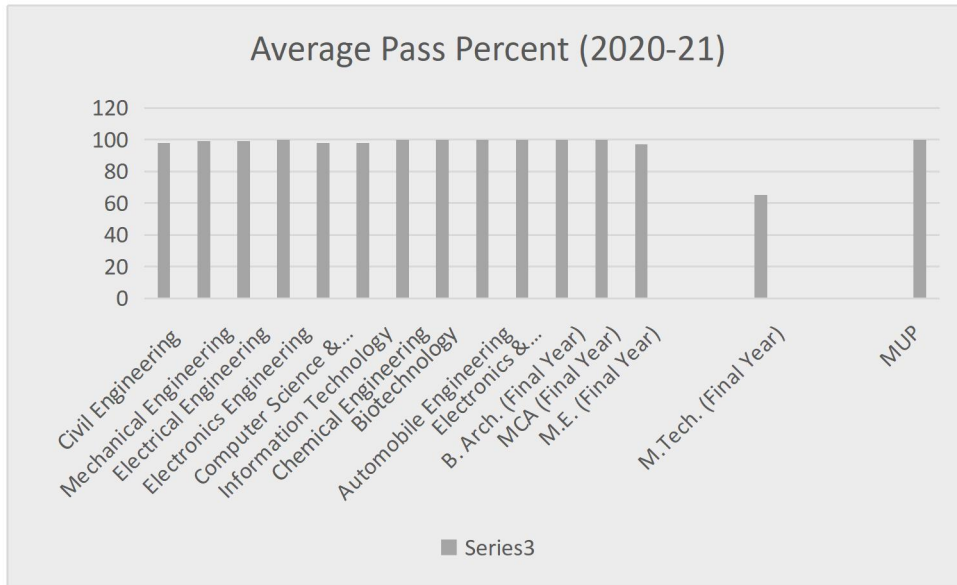
S.No	Branch Name	Seme ster	No. Of students registered	No. Of students passed	Pass %	No. of Students With Over All Grade						
						A +	A	B +	B	C +	C	D
1.	CE	II	136	132	97	11	68	34	15	04	00	00
		IV	153	151	98	38	85	26	02	00	00	00
		VI	140	139	99	19	85	28	05	02	00	00
		VIII	129	127	98	04	55	67	01	00	00	00
2.	ME	II	128	124	96	06	63	40	11	04	00	00
		IV	148	148	100	36	82	26	04	00	00	00
		VI	141	140	99	11	77	45	07	00	00	00
		VIII	126	125	99	11	83	29	02	00	00	00
3.	AU	II	35	34	97	00	03	20	08	03	00	00
		IV	65	65	100	02	36	23	04	00	00	00
		VI	65	64	98	07	24	20	12	01	00	00
		VIII	48	48	100	00	23	24	01	00	00	00
4.	EE	II	136	136	100	13	71	39	09	04	00	00
		IV	151	151	100	43	94	13	01	00	00	00
		VI	139	138	99	05	61	63	09	00	00	00
		VIII	130	129	99	19	65	41	04	00	00	00
5.	EE(IOT)	II	68	68	100	04	42	11	09	02	00	00
		IV	-	-	-	-	-	-	-	-	-	-
		VI	-	-	-	-	-	-	-	-	-	-
		VIII	-	-	-	-	-	-	-	-	-	-
6.	EC	II	136	134	98	37	83	12	01	00	01	00
		IV	135	133	98	48	73	12	00	00	00	00
		VI	123	123	100	60	54	08	01	00	00	00
		VIII	122	122	100	08	70	39	05	00	00	00



7.	ET	II	64	63	98	17	39	05	01	01	00	00
		IV	67	66	98	15	44	07	00	00	00	00
		VI	64	64	100	14	41	06	03	00	00	00
		VIII	59	59	100	04	36	19	00	00	00	00
8.	CSE	II	129	127	98	19	53	39	13	03	00	00
		IV	151	150	99	46	89	14	01	00	00	00
		VI	134	131	97	23	90	16	01	01	00	00
		VIII	140	138	98	10	80	44	04	00	00	00
9.	IT	II	65	63	96	09	24	18	09	03	00	00
		IV	75	75	100	16	53	06	00	00	00	00
		VI	64	64	100	19	38	06	01	00	00	00
		VIII	67	66	98	04	36	24	02	00	00	00
10.	IT (AIR)	II	67	65	97	07	51	06	01	00	00	00
		IV	-	-	-	-	-	-	-	-	-	-
		VI	-	-	-	-	-	-	-	-	-	-
		VIII	-	-	-	-	-	-	-	-	-	-
11.	IT (IOT)	II	64	62	96	10	39	10	03	00	00	00
		IV	-	-	-	-	-	-	-	-	-	-
		VI	-	-	-	-	-	-	-	-	-	-
		VIII	-	-	-	-	-	-	-	-	-	-
12.	CM	II	-	-	-	-	-	-	-	-	-	-
		IV	59	59	100	05	33	19	02	00	00	00
		VI	53	53	100	01	31	16	05	00	00	00
		VIII	49	49	100	00	18	24	07	00	00	00
13.	MAC	II	65	65	100	22	32	10	01	00	00	00
		IV	-	-	-	-	-	-	-	-	-	-
		VI	-	-	-	-	-	-	-	-	-	-
		VIII	-	-	-	-	-	-	-	-	-	-
14.	B. Arch	II	37	36	97	00	10	19	07	00	00	00
		IV	39	39	100	00	23	12	03	01	00	00
		VI	36	36	100	01	20	13	02	00	00	00
		VIII	38	38	100	00	23	14	01	00	00	00
		X	38	38	100	00	26	11	01	00	00	00
15.	M E	II	25	23	96	01	13	06	02	01	00	00
		IV	15	14	97	01	10	01	02	00	00	00
16.	M. Tech	II	32	32	100	05	18	08	01	00	00	00
		IV	14	09	65	00	03	05	01	00	00	00
17.	MUP	II	14	13	92	00	03	07	02	00	01	00
		IV	14	14	100	00	00	05	08	01	00	00
18.	MCA	II	61	61	100	16	43	02	00	00	00	00
		IV	20	20	100	05	14	01	00	00	00	00
		VI	58	58	100	10	36	12	00	00	00	00

## 7. Average Pass Percentage of Passing Out Batch

<b>Programme</b>	<b>Programme Name</b>	<b>Number of students appeared in the final year examination</b>	<b>Number of students passed in final Semester /year examination</b>	<b>Pass %</b>
<b>B.E. (Final Year)</b>	Civil Engineering	<b>129</b>	<b>127</b>	<b>98</b>
	Mechanical Engineering	<b>126</b>	<b>125</b>	<b>99</b>
	Electrical Engineering	<b>130</b>	<b>129</b>	<b>99</b>
	Electronics Engineering	<b>122</b>	<b>122</b>	<b>100</b>
	Computer Science & Engineering	<b>140</b>	<b>138</b>	<b>98</b>
	Information Technology	<b>67</b>	<b>66</b>	<b>98</b>
	Chemical Engineering	<b>49</b>	<b>49</b>	<b>100</b>
	Biotechnology	<b>4</b>	<b>4</b>	<b>100</b>
	Automobile Engineering	<b>48</b>	<b>48</b>	<b>100</b>
	Electronics & Telecommunication Engineering	<b>59</b>	<b>59</b>	<b>100</b>
<b>B. Arch. (Final Year)</b>	Architecture	<b>38</b>	<b>38</b>	<b>100</b>
<b>MCA (Final Year)</b>	Master in Computer Application	<b>58</b>	<b>58</b>	<b>100</b>
<b>M.E. (Final Year)</b>	Construction Technology & Management Communication Control & Networking Industrial Systems & Drives	<b>15</b>	<b>14</b>	<b>97</b>
<b>M.Tech. (Final Year)</b>	Environmental Engineering Computer Science & Engineering Information Technology Microwave Engineering Production Engineering	<b>14</b>	<b>09</b>	<b>65</b>
<b>MUP</b>		<b>14</b>	<b>14</b>	<b>100</b>



**8. Grievances against evaluation for 2020-21 Academic Year:**

<b>Number of complaints or grievances about evaluation</b>	<b>Total number of students appeared in the examination</b>	<b>No. Of applications received for revaluation</b>	<b>Percentage</b>
Question Paper Feedback : 84	4451 Students	0	0%