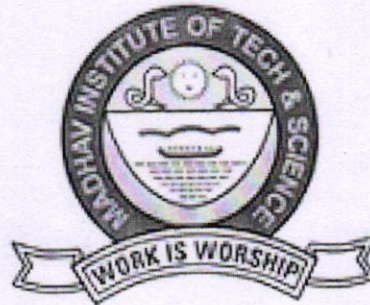# Annual Report
(2017-18)

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

Table of Content

1. Introduction

The examination section of the Institute is well equipped with printing, reprographic facilities for smooth conduction of exam, preparation and declaration of result through IMS. The Integrated Management System (IMS) of exam is used to carry out following exam activities:

1. Exam form forwarding by the HoD
2. Filling of exam form
3. Issuing of exam admit card to students
4. Preparation of Seating plan for exam
5. Marks filling of assignment/quiz and mid sem exam of theory and practical courseby the course faculty
6. Porting of end sem exam marks of theory courses on IMS after compiling marks through reading bar code of OMR sheet of answer books
7. Result preparation
8. Tabulation Report generation
9. Declaration of result to students
10. Applying and declaration of result of revaluation and retotaling.

Examination Cell of the institute is headed by Controller of Examination who is a permanent faculty nominated by the Director and the Director of the institute is the Chief Controller, Examinations. The other team members of Examination consist of Deputy Controllers/Assistant Controllers. There is a team of Office Assistants, Computer Programmers, Data Entry Operators and other helpers in the Examination Cell.

Role of Controller of Exams
1. Feeding of Scheme of all programs on IMS server
2. Promotion of students to higher semester
3. Maintenance of Sessional Marks in exam server
4. Request for recommendation of paper setters and issue appointment letter to paper setter after approval from director.
5. Publish examination time table on institute website and circulate to HoDs for displaying on notice board .
6. Collection of approved online examination applications from students in prescribed format
7. Enter the examination related activities schedule in online system (online exam form submission, forwarding of exam from, filling of continuous assessment marks of theory and practical courses)
8. Supporting question paper proof reading committee
9. Support exam conduction committee for smooth and fair conduction of exam
10. Provide the printed copy of question papers one day before the exams as per the schedule
11. Issuing letters to paper setter for preparing solution of question paper on the same day of exam and make available on MOODLE for students after exam is over
12. Feedback of students on question paper
13. Completion of Result processing
14. Announcement of Results
15. Notice for Script viewing,
16. Notifying for Revaluation application
17. Collection of approved revaluation, script viewing application from students through IMS. Allocation of Answer scripts for revaluation to valuers outside the institute
18. Announcement of Revaluation Results
19. Result Analysis as per Branch wise and subject wise.
20. Preserve Question papers of semester exam

21. Providing question wise marks to course faculty for CO calculation
22. Provide question papers to departments for analysis
23. Providing data of used marksheets to Audit Committee.
24. Solving UFM cases under the UFM committee constituted by Director

Role of Exam Conduction Committee
1. Preparation and circulation of exam invigilation duties list
2. Prepare room allocation plan
3. Prepare room wise seating plan with roll numbers
4. Display seating plan
5. Prepare and circulate invigilation and flying squad duty charts
6. Compilation of Flying Squad duty report and invigilators report.
7. Conduction of exam as per the time table issued by CoE
8. Maintain record of daily attendance of students (shift wise) appeared in exam and Answer Books used in exam
9. Hand over the answer script bundles to Valuation Committee

Role of Valuation Committee
1. Scan the answer booklets for Online valuation (done on pilot scale) or distribute the packets of Answer books to approved valuers for physical valuation
2. Distribution of Appointment letter, id and password to valuers in case of digital valuation or Distribution of Appointment letters to valuers for physical valuation.
3. Valuation of answer books as per the timelines given by the Director or COE
4. Maintain the record of answer books evaluated and faculty involved in evaluation..

2. **Academic Calendar (2017-18)** : The academic calendar of the institute for all UG and PG program is prepared on 20.07.2017 by the Dean, Academics by consulting with the Director and offered to all stakeholders of the departments one month before the commencement of the semester. Two separate academic calendars for Odd semester (Jul-Dec session) and Even semester (Jan-June session) were prepared by the institute having timelines for following exam related activities:
A. I, II, and III mid sem exams
B. Exam form filling
C. Commencement of exam
D. Declaration of result
E. Commencement of new semester

3. 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 Biotechnology (BT)	VIII	19-05-2018	11-06-2018
B.Tech. in Chemical Engineering (CM)	VIII	19-05-2018	11-06-2018
B.Tech. in Civil Engineering (CE)	VIII	30-05-2018	11-06-2018

B.Tech. in Computer Science Engineering (CS)	VIII	30-05-2018	11-06-2018
B.Tech. in Electrical Engineering (EE)	VIII	30-05-2018	11-06-2018
B.Tech. in Electronics Engineering (EC)	VIII	19-05-2018	11-06-2018
B.Tech. in Information Technology (IT)	VIII	30-05-2018	11-06-2018
B.Tech. in Mechanical Engineering (ME)	VIII	28-05-2018	11-06-2018

4. Examination Reforms

a) ***Displaying Model Answer Sheet****: Institute started a practice of publishing / displaying model answer scripts from the examination held in session April-May 2018. *Model answer sheet is being prepared by the faculty members on the day of the examination and it is uploaded on MOODLE on the same day, so that students can review their performance.*

b) ***Integrated valuation***: On a pilot basis, a few M.E./M.Tech papers are being evaluated by multiple valuers in the ongoing April-May 2018 examination.

c) ***On-line question paper feedback***: On-line question paper feedback is taken till 6.0 pm on the day of the examination to get students' opinion on the difficulty level, quality of the question paper and to know about discrepancies if any.

d) **Revision in scheme examination :**The institute revised the Choice Based Credit System scheme for 2017 admitted batch as per the guidelines of AICTE Flexible Curriculum and prepared the guidelines for the award of **Under Graduate Degree in Engineering / Technology & Architecture. As per the approval of Academic Council total 170 & 260 Credits will be earned for the award of B. Tech degree and B. Arch degree respectively**. Moreover, students will only be eligible to get Under Graduate Degree with **Honours** or **Minor Specialization** (relating to other fields of **Engineering, Technology, Applied Science, Management** etc.), if they **earn 20 & 24 extra credits** in addition to the compulsory credits required to obtain the B.Tech & B.Architecture degree respectively.

e) **Setting of question Paper as per Outcome Based Education**

Institute has trained the faculty of the institute to design the course outcomes as per the Bloom's Taxonomy and accordingly each question of question paper of end term exam is mapped with Course outcomes.

Initiatives taken for Question Paper setting as per Outcome Based Education System

*A committee was constituted to prepare **new guidelines to paper setters** regarding difficulty level, distribution of marks, and for setting Question Papers based on **course outcomes aligned with Revised Bloom's Taxonomy.***

*A two-day workshop was organized by the IQAC for the **departmental OBE coordinators** on "**Effective techniques of Question Paper Setting-An OBE Approach**" during 7th-8th February 2018.*

*The Question Paper setting was based on **course outcomes**, with effect from May-June 2018 examination.*

f) **Computing Course Outcomes**

Course Outcomes for all core courses from V Semester to VIII Semester were framed by course faculty members and attainment of Course Outcomes were computed by each course faculty.

The course faculty of all department identified the gaps in CO attainment levels (wherever applicable) for Year 2017-18 and propose corrective measures for improvement

Attainment Targets were set for all COs for courses being offered in the Academic Year 2018-19

g) **Question Paper Analysis**

Analysis of end semester question papers for Academic Year 2017-18 was carried out by a committee constituted at department level based on number of theoretical, numerical question asked.

h) **Transparency in evaluation System: Answer books of end-term examination were shown to students for maintaining transparency and credibility.**

5. Automation and IT integration for Examination

The procurement of examination server was initiated. The institute ERP system started in parallel to the existing Information management System (IMS) first on trial basis. After ensuring that the performance is satisfactory, the institute ERP has started.

Quiz submission	**MOODLE**
Assignment submission and Evaluation	**MOODLE**
Availability of Question Banks	**MOODLE**
Availability of Model Answer Script	**MOODLE**
Exam Form submission	**IMS/ECS Online**
Availalbilty of End Term Admit Card	**IMS/ECS Online**
Preparation of Seating Plan	**IMS/ECS Online**
Result Preparation	**IMS/ECS Online**
Displaying of result	**IMS/ECS Online**
Applying for Revaluation	**IMS/ECS Online**

6. : **Summary Of Question Papers Set For Session 2017-18**

S. No.	Description	December Session (Odd Semester)	June Session (Even Semester)
1	Number of Question Papers Allocated	641	702
2	Number of Faculty Members Participated	182	151
3	Total Number of Question Papers Generated	599	697
4	No. of Question Papers under gone proofreading	599	697
5	Number of Question Papers Set	131	121

		Externally									
6	Percentage of Question Papers Set Externally	22%		17%							
7	Number of External Paper Setters	78		71							

7. Evaluation

Digitization of valuation: As per the target, partial evaluation of answer sheets in the digital mode has been started for the ongoing April-May 2018 examination, on pilot basis.

Session	Dec 2017	June 2018
No.of Answer Books Evaluated	**15,169**	**19,825**
No. of faculty members involved in evaluation	**88**	**109**

8. Result Analysis

Odd Semester (Dec, 2017)

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	117	53	45	0	3	16	22	12	0	0
		III	134	96	71	0	7	25	45	19	0	0
		V	138	106	76	2	11	28	48	16	1	0
		VII	131	112	85	0	18	48	42	4	00	0
2.	ME	I	117	71	60	0	0	28	32	10	1	0
		III	139	76	54	0	6	31	35	4	0	0
		V	134	127	94	0	10	57	46	13	1	0
		VII	125	108	86	0	7	51	46	4	0	0
3.	AU	I	62	22	35	0	0	3	8	10	1	0
		III	65	24	36	0	0	8	12	4	0	0
		V	55	44	80	0	0	6	30	8	0	0
		VII	-	-	-	-	-	-	-	-	-	-
4.	EE	I	119	97	81	0	5	29	34	25	4	0
		III	143	127	88	0	24	86	39	8	0	0
		V	123	112	91	0	13	43	47	9	0	0
		VII	125	110	88	1	4	69	36	0	0	0
5.	EC	I	123	103	83	0	6	30	40	24	3	0
		III	141	107	75	0	21	51	31	4	0	0
		V	121	89	73	0	16	38	28	7	0	0
		VII	120	97	80	0	5	39	50	3	00	0
6.	ET	I	61	52	85	0	1	11	25	13	2	0
		III	46	32	69	0	3	21	8	0	00	0
		V	56	39	69	0	5	17	15	2	0	0

S.No	Branch Name	Semester	No. Of students registered	No. Of students passed	Pass %	A+	A	B+	B	C+	C	D
		VII	-	-	-	-	-	-	-	-	-	-
7.	CSE	I	123	109	88	0	13	37	37	20	20	0
		III	147	109	74	0	23	45	29	12	0	0
		V	131	113	86	0	19	44	40	10	0	0
		VII	120	118	98	0	24	57	30	07	0	0
8.	IT	I	61	49	80	0	3	16	20	10	0	0
		III	72	50	69	0	5	25	14	6	0	0
		V	66	51	77	0	11	21	15	4	0	0
		VII	64	62	96	0	5	36	19	2	0	0
9.	CM	I	57	28	49	0	1	5	9	13	0	0
		III	54	45	83	0	1	9	22	13	0	0
		V	50	37	74	0	1	10	13	13	0	0
		VII	55	43	78	0	6	12	23	2	0	0
10.	BT	I	20	8	40	0	0	0	5	3	0	0
		III	9	6	66	0	0	2	3	1	0	0
		V	6	6	100	0	0	2	4	00	0	0
		VII	20	20	100	0	4	7	8	1	0	0
11.	B Arch	I	41	37	90	0	10	25	2	0	0	0
		III	39	36	92	0	9	21	6	0	0	0
		V	30	29	96	0	5	18	6	0	0	0
		VII	41	37	90	0	17	15	5	0	0	0
		IX	37	37	100	0	18	18	1	0	0	0
12.	ME.	I	60	38	63	1	8	21	8	0	0	0
		III	78	71	91	0	18	40	13	0	0	0
13.	M.Tech	I	79	55	70	0	6	27	22	0	0	0
		III	78	71	91	0	3	47	21	0	0	0
14.	MUP	I	18	16	88	0	2	11	3	00	0	0
		III	15	14	93	0	4	7	3	0	0	0
15.	MCA	I	37	26	70	0	2	17	7	0	0	0
		III	62	47	75	0	6	15	20	6	0	0
		V	62	60	96	0	4	34	22	0	0	0

Even Semester (June 2018)

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	117	84	71	0	11	27	33	11	2	0
		IV	140	114	81	4	7	36	46	21	0	0
		VI	140	117	83	6	14	30	54	13	0	0
		VIII	133	125	93	2	39	63	21	0	00	0
2.	ME	II	114	101	88	0	14	28	39	14	6	0
		IV	136	111	81	0	9	38	35	23	6	0
		VI	134	129	98	0	16	56	38	17	2	0
		VIII	130	126	89	2	66	52	6	0	0	0
3.	AU	II	61	40	65	0	1	4	19	15	1	0

		IV	65	39	60	0	4	9	18	8	0	0
		VI	59	54	91	0	6	15	29	4	0	0
		VIII	-	--	-	-	-	-	-	-	-	-
4.	EE	II	118	84	71	1	7	22	31	21	2	0
		IV	147	118	80	0	23	55	31	9	0	0
		VI	125	104	83	1	12	41	41	9	0	0
		VIII	131	128	97	1	88	38	1	0	0	0
5.	EC	II	122	96	78	0	10	20	31	33	2	0
		IV	140	113	80	2	42	37	24	8	0	0
		VI	123	97	78	2	17	35	36	7	0	0
		VIII	120	119	92	4	48	53	14	0	0	0
6.	ET	II	61	45	73	0	4	7	24	10	0	0
		IV	47	38	80	0	10	20	8	0	0	0
		VI	57	50	87	0	3	16	26	5	0	0
		VIII	-	--	-	-	-	-	-	-	-	-
7.	CSE	II	123	95	77	0	5	29	38	15	8	0
		IV	147	113	76	0	22	45	36	10	0	0
		VI	131	123	93	0	12	56	37	18	0	0
		VIII	124	122	98	1	15	62	44	0	0	0
8.	IT	II	60	51	85	0	5	13	10	19	4	0
		IV	72	56	77	0	5	26	20	5	0	0
		VI	66	62	93	0	6	24	26	6	0	0
		VIII	69	69	100	0	10	41	18	0	0	0
9.	CM	II	55	50	90	0	5	17	18	10	0	0
		IV	55	45	81	0	1	14	20	8	2	0
		VI	53	52	98	0	4	13	20	14	1	0
		VIII	57	56	98	1	8	30	17	0	0	0
10.	BT	II	19	16	84	0	0	3	7	6	00	0
		IV	9	7	77	00	0	5	2	0	0	0
		VI	7	7	100	0	1	1	2	3	0	0
		VIII	17	17	100	0	4	7	6	0	00	0
11.	B. Arch	II	41	40	97	0	9	23	8	0	0	0
		IV	39	37	94	1	17	10	9	0	0	0
		VI	30	30	100	0	8	16	6	0	0	0
		VIII	41	40	97	1	21	14	4	0	0	0
		X	37	37	100	1	27	9	0	0	0	0
12.	M E	II	55	44	80	2	8	26	8	0	0	0
		IV	12	12	100	2	6	4	0	0	0	0
13.	M. Tech	II	73	56	77	0	8	31	15	0	0	0
		IV	13	11	85	0	7	4	0	0	0	0
14.	MUP	II	17	17	100	0	5	10	2	0	0	0
		IV	7	7	100	0	0	6	1	0	0	0
15.	MCA	II	35	29	82	1	6	12	10	0	0	0
		IV	61	52	85	1	14	22	13	2	0	0
		VI	62	62	100	4	14	43	1	0	00	0

9. Average Pass Percentage of Passing Out Batch

Branch Name	No. Of students registered	No. Of students passed	Pass %
CE	133	125	93
ME	130	126	89
EE	131	128	97
EC	120	119	92
CSE	124	124	124
IT	122	122	122
CM	98	98	98
BT	69	69	69
B Arch	69	69	69
M E	100	100	100
M Tech	57	57	57
MUP	56	56	56
MCA	98	98	98

10. Grievances reported by students regarding evaluation process (2017-18)

No. Of students appeared in exam	No. of grievances reported	% of grievances
4199	39	0.92%