



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Civil Engineering

### Scheme of Evaluation

### B. Tech. I Semester *CIVIL ENGINEERING*

(for batch admitted in academic session 2022-23)

No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	\$Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	100011	BSC	Engineering Mathematics – I (BSC - 1)	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
2.	160122	ESC	Computer Programming (ESC - 1)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	100014	ESC	Engineering Graphics (ESC - 2)	50	10	20	20	-	-	-	100	1	2	-	3	Offline	AO	2 Hrs
4.	110121	DC	Building Materials & Construction (DC - 1)	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs
5.	110122	DC	Engineering Mechanics (DC - 2)	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
6.	100018	ESC	Engineering Graphics Lab (ESC - 3)	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>12</b>	<b>4</b>	<b>6</b>	<b>19</b>	-	-	-
7.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

**\$Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language, Credits of natural Sciences & Skills will be added in VI Semester.**

**MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral**

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
7		9	3	10	6		3	19
37%		49%	16%	51%	33%		16%	Credits %



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Civil Engineering

### Scheme of Evaluation

### B. Tech. II Semester *CIVIL ENGINEERING*

(for batch admitted in academic session 2022-23)

No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.	
				Theory Slot				Practical Slot				End Sem. Exam	L	T					P
				End Term Evaluation		Continuous Evaluation		Continuous Evaluation											
				End Sem. Exam	\$Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	Lab Work & Sessional	Skill Based Mini Project										
1.	110221	DC	Surveying (DC - 3)	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs	
2.	110222	DC	Strength of Materials (DC - 4)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs	
3.	100021	ESC	Basic Mechanical Engineering (ESC - 4)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	MCQ	1.5 Hrs	
4.	100022	ESC	Basic Electrical & Electronics Engineering (ESC - 5)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs	
5.		ESC	Python Programming (ESC - 6)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs	
6.	110223	DLC	Survey Practice Lab (DLC - 2)	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-	
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>12</b>	<b>4</b>	<b>8</b>	<b>19</b>	-	-	-	
7.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs	

Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.

**\$Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language, Credits of natural Sciences & Skills will be added in VI Semester.

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
		15	4	6	3	6	4	19
		89%	21%	32%	15%	32%	21%	Credits %





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Mechanical Engineering

### Scheme of Evaluation

### B. Tech. I Semester (*Automobile Engineering*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	100011	BSC	Engineering Mathematics-I	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
2.	160122	ESC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	100021	ESC	Basic Mechanical	50	10	20	20	-	-	-	100	2	1	-	3	Blended	MCQ	1.5 Hrs
4.	100022	ESC	Basic Electrical and Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
5.	100020	ESC	Basic Civil Engineering and Mechanics	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
6.	120026	ESC	Basic Mechanical Engineering Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>11</b>	<b>05</b>	<b>06</b>	<b>19</b>	-	-	-
7.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language

Credits of Natural Sciences & Skills will be added in the VI Semester

MCQ: Multiple Choice Question      AO: Assignment + Oral      OB: Open Book      PP: Pen Paper      SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
4	-	14	1	7	4	7	1	19
21%	-	73.68%	5%	36.8%	21%	36.8%	5%	Credits %





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Mechanical Engineering

### Scheme of Evaluation

#### B. Tech. II Semester (*Automobile Engineering*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	190221	DC	Material Science	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
2.	190222	DC	Manufacturing Processes	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
3.	190223	DC	Engineering Thermodynamics	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
4.	100014	ESC	Engineering Graphics	50	10	20	20	-	-	-	100	2	1	-	3	Offline	AO	2 Hrs
5.	160222	ESC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
6.	100024	ESC	Manufacturing Practices	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
7.	100018	ESC	Engineering Graphics Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>11</b>	<b>05</b>	<b>06</b>	<b>19</b>	-	-	-
8.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language

Credits of Natural Sciences & Skills will be added in the VI Semester

MCQ: Multiple Choice Question

AO: Assignment + Oral

OB: Open Book

PP: Pen Paper

SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory		Lab		Theory		Lab		
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
3	-	14	2	10	7	0	2	19
15.78	-	73.68	10.5	52.6	36.8	0	10.5	Credits %





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Mechanical Engineering

### Scheme of Evaluation

### B. Tech. I Semester (*Mechanical Engineering*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	100011	BSC	Engineering Mathematics-I	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
2.	160122	ESC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	100021	ESC	Basic Mechanical	50	10	20	20	-	-	-	100	2	1	-	3	Blended	MCQ	1.5 Hrs
4.	100022	ESC	Basic Electrical and Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
5.	100020	ESC	Basic Civil Engineering and Mechanics	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
6.	120026	ESC	Basic Mechanical Engineering Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>11</b>	<b>05</b>	<b>06</b>	<b>19</b>	-	-	-
7.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

**Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language**

**Credits of Natural Sciences & Skills will be added in the VI Semester**

**MCQ: Multiple Choice Question      AO: Assignment + Oral      OB: Open Book      PP: Pen Paper      SO: Submission + Oral**

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
4	-	14	1	7	4	7	1	19
21%	-	73.68%	5%	36.8%	21%	36.8%	5%	Credits %





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Mechanical Engineering

### Scheme of Evaluation

### B. Tech. II Semester (*Mechanical Engineering*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject/course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	120221	DC	Material Science	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
2.	120222	DC	Manufacturing Processes	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
3.	120223	DC	Engineering Thermodynamics	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
4.	100014	ESC	Engineering Graphics	50	10	20	20	-	-	-	100	2	1	-	3	Offline	AO	2 Hrs
5.	160222	ESC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
6.	100024	ESC	Manufacturing Practices	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
7.	100018	ESC	Engineering Graphics Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>11</b>	<b>05</b>	<b>06</b>	<b>19</b>	-	-	-
8.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language , Credits of Natural Sciences & Skills will be added in the VI Semester

MCQ: Multiple Choice Question

AO: Assignment + Oral

OB: Open Book

PP: Pen Paper

SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory		Lab		Theory		Lab		
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
3	-	14	2	10	7	0	2	19
15.78	-	73.68	10.5	52.6	36.8	0	10.5	Credits %



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

Department of Electrical Engineering

Scheme of Evaluation

**B.Tech I Semester (Electrical Engineering)**

*(for batch admitted in academic session 2022-23)*

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	100011	BSC	Engineering Mathematics –I	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
2.		ESC	Engineering Graphics	50	10	20	20	-	-	-	100	2	-	2	3	Blended	AO	2 Hrs
3.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
4.		ESC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
5.	130121	DC	Electrical Engineering Materials	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>700</b>	<b>12</b>	<b>03</b>	<b>08</b>	<b>19</b>	-	-	-
7.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject.

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language.

Credits of Natural Sciences & Skills will be added in the VI Semester.

MCQ: Multiple Choice Question AO: Assignment + Oral OB: Open Book PP: Pen Paper SO: Submission + Oral





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Electrical Engineering

### Scheme of Evaluation

## B.Tech. II Semester (Electrical Engineering)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	100020	ESC	Basic Civil Engineering & Mechanics	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
2.	100021	ESC	Basic Mechanical Engineering	50	10	20	20	-	-	-	100	3	-	-	3	Blended	MCQ	1.5 Hrs
3.		ESC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
4.	130221	DC	Network Analysis	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
5.	130222	DC	Electrical & Electronics Measurement	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
6.	130223	DC	Manufacturing Practices	-	-	-	-	60	40	-	100	-	-	2	1	Offline	SO	
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>80</b>	<b>40</b>	<b>800</b>	<b>13</b>	<b>3</b>	<b>6</b>	<b>19</b>	-	-	-
7.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

**Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.**

**<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject.**

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language.**

**Credits of Natural Sciences & Skills will be added in the VI Semester.**

**MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral**





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

Department of Electrical Engineering

Scheme of Evaluation

**B.Tech I Semester (Internet of Things)**

*(for batch admitted in academic session 2022-23)*

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.		ESC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
2.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
3.	250100	BSC	Linear Algebra	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
4.	220121	DC	Basics of Internet of Things	50	10	20	20	-	-	-	100	3	1	-	4	Blended	MCQ	1.5 Hrs
5.	220122	DC	Digital Electronics and Logic Design	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>700</b>	<b>12</b>	<b>5</b>	<b>4</b>	<b>19</b>	-	-	-
7.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language

Credits of Natural Sciences & Skills will be added in the VI Semester

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

Department of Electrical Engineering

Scheme of Evaluation

## B. Tech. II Semester (Electrical Engineering)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam	Duration of Exam
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	220221	DC	Operating System	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
2.	220222	DC	Sensor Technology	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	220223	DC	Data Structures	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
4.	220224	DC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
5.		BSC	Probability & Random Process	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>11</b>	<b>5</b>	<b>6</b>	<b>19</b>	-	-	-
6.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.</b>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language

Credits of Natural Sciences & Skills will be added in the VI Semester.

MCQ: Multiple Choice Question AO: Assignment + Oral OB: Open Book PP: Pen Paper SO: Submission + Oral





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute & NAAC Accredited Institute Affiliated to RGPV, Bhopal MP)

Department of Electronics Engineering

## Scheme of Examination For batch admitted in Academic Session 2022-2023

### B.Tech. I Semester (Electronics Engineering)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam
				Theory Slot				Practical Slot				L	T	P				
				End Sem.		Mid Sem. Exam.	Quiz/Assignment	End Sem.	Lab Work & Sessional	Skill Based Mini Project								
				End Term Evaluation	Proficiency in subject/course													
1.	100022	BSC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
2.	140121	DC	Electronic Engineering Material	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
3.	140122	DC	Electronic Devices	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	140123	DC	Network Theory	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
5.		ESC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
6.	140124	DLC	Devices & Network Lab	-	-	-	-	60	20	20	100	-	-	4	2	Offline	AO	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>11</b>	<b>4</b>	<b>6</b>	<b>19</b>			
6	3000002	Natural Sciences and Skills	Engineering Chemistry	50	10	20	20	-	-	-	-	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<p style="text-align: center;"><b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b></p>																		

**Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits	
Theory			Lab	Theory			Lab		
Offline	Online	Blended		Offline	PP	A+O	MCQ		SO
		Offline	Online						
0	0	10	5	8	9	6	4	0	19
0%	0%	52.63%	26.31%	42.10%	47.36%	31.57%	21.05%	0%	



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute & NAAC Accredited Institute Affiliated to RGPV, Bhopal MP)

Department of Electronics Engineering

## Scheme of Examination For batch admitted in Academic Session 2022-2023

### B.Tech. II Semester (Electronics Engineering)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam
				Theory Slot				Practical Slot				L	T	P				
				End Sem.		Mid Sem. Exam.	Quiz/Assignment	End Sem.	Lab Work & Sessional	Skill Based Mini Project								
				End Term Evaluation	Proficiency in subject /course													
1.	100011	BSC	Engineering Mathematics –I	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
2.	140221	DC	Digital Circuits & Systems	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	140222	DC	Electronics Circuits	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
4.	140223	DC	Signals and Systems	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
5.	140224	DC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	1.5 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>11</b>	<b>5</b>	<b>6</b>	<b>19</b>			
6	3000001	Natural Sciences and Skills	Engineering Physics	50	10	20	20	-	-	-	-	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.</b>																		

**\*Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching					Mode of Examination				Total Credits
Theory			Lab		Theory			Lab	
Offline	Online	Blended		Offline	PP	A+O	MCQ	SO	
		Offline	Online						
4	0	8	4	6	15	4	0	0	19
21.05%	0%	42.10%	21.05%	31.57%	78.94%	21.05%	0%	0%	





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute & NAAC Accredited Institute Affiliated to RGPV, Bhopal MP)

Department of Electronics Engineering

## Scheme of Examination For batch admitted in Academic Session 2022-2023

### B.Tech. I Semester (Electronics and Telecommunication Engineering)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam
				Theory Slot				Practical Slot				L	T	P				
				End Sem.		Mid Sem. Exam.	Quiz/Assignment	End Sem.	Lab Work & Sessional	Skill Based Mini Project								
				End Term Evaluation	Proficiency in subject/course													
1.	100022	BSC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
2.	200121	DC	Electronic Engineering Material	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
3.	200122	DC	Electronic Devices	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	200123	DC	Network Theory	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
5.		ESC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
6.	200124	DLC	Devices & Network Lab	-	-	-	-	60	20	20	100	-	-	4	2	Offline	AO	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>11</b>	<b>4</b>	<b>6</b>	<b>19</b>			
6	3000002	Natural Sciences and Skills	Engineering Chemistry	50	10	20	20	-	-	-	-	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.																		

**\*Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language

Credits of Natural Sciences & Skills will be added in the VI Semester.

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching					Mode of Examination				Total Credits
Theory				Lab	Theory			Lab	
Offline	Online	Blended		Offline	PP	A+O	MCQ	SO	
		Offline	Online						
0	0	10	5	8	9	6	4	0	
0%	0%	52.63%	26.31%	42.10%	47.36%	31.57%	21.05%	0%	



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute & NAAC Accredited Institute Affiliated to RGPV, Bhopal MP)

Department of Electronics Engineering

## Scheme of Examination For batch admitted in Academic Session 2022-2023

### B.Tech. II Semester (Electronics and Telecommunication Engineering)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam
				Theory Slot				Practical Slot				L	T	P				
				End Sem.		Mid Sem. Exam.	Quiz/Assignment	End Sem.	Lab Work & Sessional	Skill Based Mini Project								
				End Term Evaluation	\$Proficiency in subject /course													
1.	100011	BSC	Engineering Mathematics –I	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
2.	200221	DC	Digital Circuits & Systems	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	200222	DC	Electronics Circuits	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
4.	200223	DC	Signals and Systems	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
5.	200224	DC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	1.5 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>11</b>	<b>5</b>	<b>6</b>	<b>19</b>			
6	3000001	Natural Sciences and Skills	Engineering Physics	50	10	20	20	-	-	-	-	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.</b>																		

**\$Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language

Credits of Natural Sciences & Skills will be added in the VI Semester.

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits	
Theory			Lab	Theory			Lab		
Offline	Online	Blended		Offline	PP	A+O	MCQ		SO
		Offline	Online						
4	0	8	4	6	15	4	0	0	19
21.05%	0%	42.10%	21.05%	31.57%	78.94%	21.05%	0%	0%	





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

#### B. Tech. I Semester (*Information Technology*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	160121	DC	Introduction to Information Technology	50	10	20	20	-	-	-	100	4	-	-	4	Blended	MCQ	1.5 Hrs
2.	160122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	160123	DC	Digital Logic Design	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	160124	DC	Discrete Structures	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP	2 Hrs
5.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
6.	160125	DLC	IT workshop	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>12</b>	<b>04</b>	<b>06</b>	<b>19</b>	-	-	-
7.	3000001	Natural Sciences & Skills	Engineering Physics	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

**<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency/knowledge level /expertise attained etc. in that particular course/subject**

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language**

**Credits of Natural Sciences & Skills will be added in the VI Semester**

**MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral**

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
03	-	13	03	06	03	07	03	19
15.79%	-	68.42%	15.79%	31.58%	15.79%	36.84%	15.79%	Credits %



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

### B. Tech. II Semester (*Information Technology*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	160221	DC	Data Structures	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs
2.	160222	DC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	160223	DC	Database Management System	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
4.	160224	DC	Computer System Organization	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
5.	100011	BSC	Engineering Mathematics-I	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>12</b>	<b>04</b>	<b>06</b>	<b>19</b>	-	-	-
7.	3000002	Natural Sciences & Skills	Engineering Chemistry	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.																		

**Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language**

**Credits of Natural Sciences & Skills will be added in the VI Semester**

**MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral**

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
04	-	12	03	13	03	-	03	19
21.05%	-	63.16%	15.79%	68.42%	15.79%	-	15.79%	Credits %



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

#### B. Tech. I Semester (*Internet of Things (IoT)*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	230121	DC	Introduction to Internet of Things (IoT)	50	10	20	20	-	-	-	100	4	-	-	4	Blended	MCQ	1.5 Hrs
2.	230122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	230123	DC	Digital Logic Design	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	250100	BSC	Linear Algebra	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
5.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>700</b>	<b>13</b>	<b>04</b>	<b>04</b>	<b>19</b>	-	-	-
7.	3000001	Natural Sciences & Skills	Engineering Physics	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<p><b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b></p>																		

**Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language**

**Credits of Natural Sciences & Skills will be added in the VI Semester**

**MCQ:** Multiple Choice Question    **AO:** Assignment + Oral    **OB:** Open Book    **PP:** Pen Paper    **SO:** Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
04	-	13	02	07	03	07	02	19
21.05%	-	68.42%	10.53%	36.84%	15.79%	36.84%	10.53%	Credits %





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

### B. Tech. II Semester (*Internet of Things (IoT)*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	230221	DC	Discrete Structures	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP	2 Hrs
2.	230222	DC	Data Structures	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs
3.	230223	DC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
4.	230224	DC	Database Management System	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
5.	220202	DC	Sensor Technology	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>240</b>	<b>80</b>	<b>80</b>	<b>900</b>	<b>12</b>	<b>03</b>	<b>08</b>	<b>19</b>	-	-	-
7.	3000002	Natural Sciences & Skills	Engineering Chemistry	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language

Credits of Natural Sciences & Skills will be added in the VI Semester

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
03	-	12	04	12	03	-	04	19
15.79%	-	63.16%	21.05%	63.16%	15.79%	-	21.05%	Credits %



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

#### B. Tech. I Semester (*Information Technology (Artificial Intelligence and Robotics)*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	240121	DC	Introduction to Artificial Intelligence	50	10	20	20	-	-	-	100	4	-	-	4	Blended	MCQ	1.5 Hrs
2.	240122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	240123	DC	Digital Logic Design	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	250100	BSC	Linear Algebra	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
5.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>700</b>	<b>13</b>	<b>04</b>	<b>04</b>	<b>19</b>	-	-	-
7.	3000001	Natural Sciences & Skills	Engineering Physics	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<p><b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b></p>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language

Credits of Natural Sciences & Skills will be added in the VI Semester

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
04	-	13	02	07	03	07	02	19
21.05%	-	68.42%	10.53%	36.84%	15.79%	36.84%	10.53%	Credits %



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

#### B. Tech. II Semester (*Information Technology (Artificial Intelligence and Robotics)*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	240221	DC	Discrete Structures	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP	2 Hrs
2.	240222	DC	Data Structures	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs
3.	240223	DC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
4.	240224	DC	Database Management System	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
5.	220202	DC	Sensor Technology	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>240</b>	<b>80</b>	<b>80</b>	<b>900</b>	<b>12</b>	<b>03</b>	<b>08</b>	<b>19</b>	-	-	-
7.	3000002	Natural Sciences & Skills	Engineering Chemistry	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language

Credits of Natural Sciences & Skills will be added in the VI Semester

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
03	-	12	04	12	03	-	4	19
15.79%	-	63.16%	21.05%	63.16%	15.79%	-	21.05%	Credits %





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

#### B. Tech. I Semester (*Artificial Intelligence (AI) and Data Science*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	270121	DC	Introduction to Artificial Intelligence & Data Science	50	10	20	20	-	-	-	100	4	-	-	4	Blended	MCQ	1.5 Hrs
2.	270122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	270123	DC	Digital Logic Design	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	250100	BSC	Linear Algebra	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
5.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>700</b>	<b>13</b>	<b>04</b>	<b>04</b>	<b>19</b>	-	-	-
7.	3000001	Natural Sciences & Skills	Engineering Physics	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<p><b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b></p>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language**

**Credits of Natural Sciences & Skills will be added in the VI Semester**

**MCQ:** Multiple Choice Question      **AO:** Assignment + Oral      **OB:** Open Book      **PP:** Pen Paper      **SO:** Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
04	-	13	02	07	03	7	02	19
21.05%	-	68.42%	10.53%	36.84%	15.79%	36.84%	10.53%	Credits %



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

#### B. Tech. II Semester (*Artificial Intelligence (AI) and Data Science*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	270221	DC	Data Structures	50	10	20	20	60	20	20	200	3	-	2	4	Offline	PP	2 Hrs
2.	270222	DC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	270223	DC	Database Management System	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
4.	270224	DC	Operating System	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
5.	250106	BSC	Probability and Random Process	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>12</b>	<b>04</b>	<b>06</b>	<b>19</b>	-	-	-
7.	3000002	Natural Sciences & Skills	Engineering Chemistry	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<p><b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b></p>																		

**<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language**

**Credits of Natural Sciences & Skills will be added in the VI Semester**

**MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral**

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
04	-	12	03	13	03	-	03	19
21.05%	-	63.16%	15.79%	68.42%	15.79%	-	15.79%	Credits %



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

#### B. Tech. I Semester (*Artificial Intelligence (AI) and Machine Learning*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	280121	DC	Introduction to Artificial Intelligence & Machine Learning	50	10	20	20	-	-	-	100	4	-	-	4	Blended	MCQ	1.5 Hrs
2.	280122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	280123	DC	Digital Logic Design	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	250100	BSC	Linear Algebra	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
5.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>700</b>	<b>13</b>	<b>04</b>	<b>04</b>	<b>19</b>	-	-	-
7.	3000001	Natural Sciences & Skills	Engineering Physics	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<p><b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b></p>																		

<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language**

**Credits of Natural Sciences & Skills will be added in the VI Semester**

**MCQ:** Multiple Choice Question    **AO:** Assignment + Oral    **OB:** Open Book    **PP:** Pen Paper    **SO:** Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
04	-	13	02	07	03	07	02	19
21.05%	-	68.42%	10.53%	36.84%	15.79%	36.84%	10.53%	Credits %





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Information Technology

### Scheme of Evaluation

#### B. Tech. II Semester (*Artificial Intelligence (AI) and Machine Learning*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation									
				End Sem. Exam	<sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	280221	DC	Data Structures	50	10	20	20	60	20	20	200	3	-	2	4	Offline	PP	2 Hrs
2.	280222	DC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	280223	DC	Database Management System	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
4.	280224	DC	Operating System	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
5.	250106	BSC	Probability and Random Process	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>12</b>	<b>04</b>	<b>06</b>	<b>19</b>	-	-	-
7.	3000002	Natural Sciences & Skills	Engineering Chemistry	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.

**<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language**

**Credits of Natural Sciences & Skills will be added in the VI Semester**

**MCQ:** Multiple Choice Question      **AO:** Assignment + Oral      **OB:** Open Book      **PP:** Pen Paper      **SO:** Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
04	-	12	03	13	03	-	03	19
21.05%	-	63.16%	15.79%	68.42%	15.79%	-	15.79%	Credits %



**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

**B.Tech. I Semester (Chemical Engineering) For batches admitted in academic session 2022-23**

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam	Duration of Exam
				Theory Slot				Practical Slot				L	T	P				
				End Sem.		Mid Sem. Exam.	Quiz/Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project								
				End Term Evaluation	Proficiency in subject /course													
1.	170121	DC	Fuel Technology	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2Hrs
2.	100020	ESC	Basic Civil Engineering & Mechanics	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2Hrs
3.	100021	ESC	Basic Mechanical Engineering	50	10	20	20	-	-	-	100	2	1	-	3	Blended	MCQ	1.5 Hrs
4.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
5.	170122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2Hrs
6.	100024	ESC	Manufacturing Practices	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>240</b>	<b>80</b>	<b>80</b>	<b>900</b>	<b>10</b>	<b>5</b>	<b>8</b>	<b>19</b>	-	-	-
7.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<p>Induction program of first three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visit / Virtual Visit to local Areas, Familiarization to Dept./Branch &amp; Innovations</p> <p>\$ proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.</p> <p><sup>5</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject</p> <p>Natural Sciences &amp; Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language (Credits of Natural Sciences &amp; Skills will be added in the VI Semester)</p> <p>MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral</p>																		

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
-	-	15	4	06	03	06	04	
-	-	78.94%	21.05%	31.57%	15.78%	31.57%	21.05%	Credits %



**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

**B.Tech. (Chemical Engineering) II Semester** *For batches admitted in academic session 2022-23*

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam	Duration of Exam
				Theory Slot				Practical Slot				L	T	P				
				End Sem.		Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project								
				End Term Evaluation	Proficiency in subject /course													
1.	100011	BSC	Engineering Mathematics – I	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
2.	170221	DC	Chemical Process Calculations	50	10	20	20	-	-	-	200	2	1	-	3	Blended	PP	2 Hrs
3.	100014	ESC	Engineering Graphics	50	10	20	20	-	-	-	100	3	-	-	3	Offline	AO	2 Hrs
4.	170222	DC	Python Programming	50	10	20	20	60	20	20	100	2	1	2	4	Blended	MCQ	1.5 Hrs
5.	170223	DC	Fluid Particle Mechanics	50	10	20	20	60	20	20	100	2	1	2	4	Blended	PP	2 Hrs
6.	100018	ESC	Eg. Graphics Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>12</b>	<b>4</b>	<b>6</b>	<b>19</b>	-	-	-
7.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	GRAD E	Blended	MCQ	1.5 Hrs
Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.																		

<sup>5</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language (Credits of Natural Sciences & Skills will be added in the VI Semester)

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits
Theory			Lab	Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
07	-	09	03	10	03	03	03	19
36.84%	-	47.36%	15.78%	52.63	15.78%	15.78%	15.78%	Credits %





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Mathematics & Computing

### Scheme of Evaluation

### B. Tech. I Semester (Mathematics & Computing)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	\$ <sup>s</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	250121	DC	Introduction to Computing	50	10	20	20	-	-	-	100	3	-	-	3	Blended	MCQ	1.5 Hrs
2.	250122	DC	Introduction to Computer Programming	50	10	20	20	60	20	20	200	3	-	2	4	Offline	AO	2 Hrs
3.	250123	DC	Statistical Methods	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
4.	250124	DC	Element of Calculus	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
5.	250125	DC	Computer Architecture & Organization	50	10	20	20	-	-	-	100	3	-	-	3	Blended	MCQ	1.5 Hrs
6.	250126	DLC	Computing Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>120</b>	<b>40</b>	<b>40</b>	<b>700</b>	<b>15</b>	<b>02</b>	<b>04</b>	<b>19</b>	-	-	-
7.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.

**<sup>s</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits	
Theory			Lab	Theory			Lab		
Offline	Online	Blended		Offline	PP	AO	MCQ		SO
		Offline	Online						
11	-	4	2	2	2	1	3	1	
57.89	-	21.05	10.52	10.52	28.57	14.28	42.85	14.28	



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Computer Science and Engineering

### Scheme of Evaluation

#### B. Tech. I Semester (*Computer Science and Engineering*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.	
				Theory Slot				Practical Slot				End Sem. Exam	L	T					P
				End Term Evaluation		Continuous Evaluation		Lab Work & Sessional	Continuous Evaluation										
				End Sem. Exam	<sup>\$</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Skill Based Mini Project										
1.	150121	DC	Digital Electronics	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs	
2.	150122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs	
3.	150123	DC	Emerging Technologies in Computer Science	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs	
4.	100011	BSC	Engineering Mathematics-I	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs	
5.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs	
6.	150124	DLC	CSE workshop	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-	
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>12</b>	<b>04</b>	<b>06</b>	<b>19</b>	-	-	-	
7.	3000002	<b>Natural Sciences &amp; Skills</b>	Engineering Chemistry	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs	
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																			

<sup>\$</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits	
Theory		Lab		Theory			Lab		
Offline	Online	Blended		Offline	PP	AO	MCQ		SO
		Offline	Online						
4	-	8	4	3	10	4	4	1	19
21		42	21	16	53	21	21	5	



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## Department of Computer Science and Engineering

### Scheme of Evaluation

#### B. Tech. II Semester (*Computer Science and Engineering*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	\$Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	150221	DC	Data Structures	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
2.	150222	DC	Python Programming	50	10	20	20	60	20	20	200	3	-	2	4	Blended	AO	2 Hrs
3.	150223	DC	Computer System Organization	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	150224	DC	Computer Graphics	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs
5.	100025	BSC	Engineering Mathematics –II	50	10	20	20	-	-	-	100	3	-	-	3	Offline	PP	2 Hrs
6.	150225	DLC	Hardware and Troubleshooting Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>240</b>	<b>80</b>	<b>80</b>	<b>900</b>	<b>13</b>	<b>02</b>	<b>08</b>	<b>19</b>	-	-	-
7.	3000001	Natural Sciences & Skills	Engineering Physics	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																		

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Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science / Language

MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits	
Theory		Blended		Lab	Theory				Lab
Offline	Online	Offline	Online	Offline	PP	AO	MCQ		SO
3	-	8	4	4	14	4	-		1
16		42	21	21	74	21		5	





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## Department of Computer Science and Engineering

### Scheme of Evaluation

#### B. Tech. I Semester (*Computer Science and Design*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.	
				Theory Slot				Practical Slot				End Sem. Exam	L	T					P
				End Term Evaluation		Continuous Evaluation		Lab Work & Sessional	Skill Based Mini Project										
				End Sem. Exam	\$ <sup>§</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment												
1.	290121	DC	Introduction to Computer Science and Design	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs	
2.	290122	DC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs	
3.	250100	BSC	Linear Algebra	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs	
4.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs	
5.	290123	DC	Digital Electronics	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs	
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>13</b>	<b>03</b>	<b>06</b>	<b>19</b>	-	-	-	
7.	3000002	Natural Sciences & Skills	Engineering Chemistry	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs	
<b>Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch &amp; Innovations.</b>																			

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MCQ: Multiple Choice Question    AO: Assignment + Oral    OB: Open Book    PP: Pen Paper    SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits	
Theory			Lab	Theory			Lab		
Offline	Online	Blended		Offline	PP	AO	MCQ		SO
		Offline	Online						
4	-	8	4	3	11	4	4	-	19
21		42	21	16	58	21	21		



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## Department of Computer Science and Engineering

### Scheme of Evaluation

### B. Tech. II Semester (*Computer Science and Design*)

(for batch admitted in academic session 2022-23)

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	290221	DC	Data Structures	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs
2.	290222	DC	Python Programming	50	10	20	20	60	20	20	200	3	-	2	4	Blended	AO	2 Hrs
3.	290223	DC	Computer System Organization	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	290224	DC	Computer Graphics and Animation	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
5.	250106	BSC	Probability and Random Process	50	10	20	20	-	-	-	100	3	-	-	3	Offline	PP	2 Hrs
6.	290225	DLC	Hardware and Troubleshooting Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>240</b>	<b>80</b>	<b>80</b>	<b>900</b>	<b>13</b>	<b>02</b>	<b>08</b>	<b>19</b>	-	-	-
7.	3000001	Natural Sciences & Skills	Engineering Physics	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.

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SO: Submission + Oral

Mode of Teaching				Mode of Examination				Total Credits	
Theory		Lab		Theory			Lab		
Offline	Online	Blended		Offline	PP	AO	MCQ		SO
		Offline	Online						
3	-	8	4	4	14	4	-	1	19
16		42	21	21	74	21		5	