MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(Deemed University)
(Declared Under Distinct Category by Ministry of Education, Government of India)
NAAC Accredited with A++ Grade
Department of Electronics Engineering
Scheme of Evaluation
B. Tech. I Semester (EL) *(for batch admitted in academic session 2024-25)*

S. No.	Course Code	Category Code	Course Name	Theory Block Continuous Evaluation Minor Evaluation I	Theory Block Continuous Evaluation Minor Evaluation II	Theory Block Continuous Evaluation Quiz/ Assignment	Theory Block Major Evaluation	Practical Block Continuous Evaluation Lab Work & Sessional	Practical Block Major Evaluation	Total Marks	L	T	P	Total Credits	Mode of Learning	Mode of Major Evaluation.	Duration of Major Evaluation.
1.	14241101	DC	Instrumentation & Sensors	20	20	30	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
2.	14241102	ESC	Computer Programming	20	20	30	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs
3.	14241103	DC	Electronic Devices	20	20	30	30	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
4.	14241104	DC	Network Theory	20	20	30	30	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
5.	14241105	ESC	Basic Electrical & Electronics Engineering	20	20	30	30	-	-	100	2	-	-	2	Face to Face	MCQ	2 Hrs
6.	14241106	DLC	Computer Programming Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	14241107	DLC	Electrical & Electronics Engineering Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	14241108	SP	Semester Proficiency$	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	14241109	PBL	Micro Project-I	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	14241110	ESC	Engineering Physics Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
11.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	–	50	-	1	-	1	Interactive	SO	-
			Total	100	100	150	150	380	120	1000	11	03	10	19	-	-	-
12.	14241111	MAC	Universal Human Values & Professional Ethics (UHVPE)	20	20	30	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs
13.	14241112	MWS	Mandatory Workshop on Indian Constitution and Traditional Knowledge at Department Level (Duration: Two Days)											GRADE	Interactive	MCQ	-

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.

Skill Internship Program (Soft Skill): Minimum 45 hours duration: To be credited in II Semester.

$Semester Proficiency– includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses.

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

#Micro Project-I will be presented and evaluated through an interdisciplinary project evaluation committee.

HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
0	0	3	3	0	0	0	2	1	1	0	0	0	1	1	1

Mode of Learning							Mode of Examination						Total Credits
Theory		NEC		Lab			Theory			NEC	Lab		
Face to Face	Online	Interactive	Face to Face	Blended	Experiential	Experimental	PP	MCQ	OB	SO	AO	SO	
13	0	1	1	0	1	3	6	7	0	1	3	3	39
68.42%	0%	5.26%	5.26%	0%	5.26%	15.78%	31.57%	36.84 %	0%	5.26%	15.78%	15.78%	Credits %

Scheme of Evaluation

Recommended in the BoS meeting of **Electronics Engineering** held on 6th Dec 2024

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(Deemed University)
(Declared Under Distinct Category by Ministry of Education, Government of India)
NAAC Accredited with A++ Grade
Department of Electronics Engineering
B. Tech. II Semester (EL) *(for batch admitted in academic session 2024-25)*

S. No.	Course Code	Category Code	Course Name	Theory Block — Continuous Evaluation — Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Major Evaluation	Practical Block — Continuous Evaluation — Lab Work & Sessional	Major Evaluation	Total Marks	Contact Hours per week		P	Total Credits	Mode of Learning	Mode of Major Evaluation.	Duration of Major Evaluation.
1.	14241201	DC	Data Communication	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
2.	14241202	DC	Electronic Circuits	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
3.	14241203	DC	Signals and Systems	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	14241204	DC	Digital Circuits and Systems	20	20	30	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	14241205	BSC	Linear Algebra and Differential Equation	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
6.	14241206	DLC	Digital Logic Design Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	14241207	DLC	Problem Solving through Python Programming	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	14241208	SP	Semester Proficiency$	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	14241209	PBL	Micro Project-II#	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	14241210	ESC	Engineering Chemistry Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
11.	14241211	HSMC	Language Lab	-	-	-	-	70	30	100	-	-	2	1	Blended	AO	-
12.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	_	50	-	1	-	1	Interactive	SO	-
13.	SIP1XXXX	SIP	Skill Internship Program (Soft Skill)	-	-	-	-	60	_	60	-	-	-	2**	Experiential	SO	-
			Total	100	100	150	150	510	150	1160	12	04	12	24	-	-	-
14.	14241212	MAC	Sustainability & Environmental Science	20	20	30	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5Hrs
15.		MWS	Mandatory Workshop on Indian Knowledge System at Department Level (Duration: Two Days)											GRADE	Interactive	MCQ	-

Summer Semester of six-eight week duration will be conducted for makeup of I & II semester examination.

$Semester Proficiency– includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses ,

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

#Micro Project-II will be presented and evaluated through an interdisciplinary project evaluation committee.

.** These credits will be transferred from **Skill Internship Program (Soft Skill)**.

HSMC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
1	1	1	4	0	0	0	2	1	1	1	0	0	1	1	1

Mode of Learning							Mode of Examination						Total Credits
Theory		NEC	Lab				Theory			NEC	Lab		
Face to Face	Online	Interactive	Face to Face	Blended	Experiential	Experimental	PP	MCQ	OB	SO	AO	SO	
15	0	1	1	1	3	3	6	9	0	1	3	3	46
62.5%	0%	4.16%	4.16%	4.16%	12.5%	12.5%	25%	37.5 %	0%	4.16%	12.5%	12.5%	Credits %

Scheme of Evaluation

Recommended in the BoS meeting of **Electronics Engineering** held on 6th Dec 2024

Scheme of Evaluation
B. Tech. III Semester (Electronics Engineering) *(for batch admitted in academic session 2024-25)*

S. No.	Course Code	Category Code	Course Name	Theory Block — Continuous Evaluation — Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment	Major Evaluation	Practical Block — Continuous Evaluation — Lab Work & Sessional	Major Evaluation	Total Marks	L	T	P	Total Credits	Mode of Learning	Mode of Major Evaluation	Duration of Major Evaluation
1.	14242101	BSC	Probability and Random Processes	25	25	20	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
2.	14242102	DC	Data Structures	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
3.	14242103	DC	Communication Systems	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4.	14242104	DC	Integrated Circuits	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5.	14242105	DC	Linear Control Theory	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
6.	14242106	DLC	Communication Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7.	14242107	DLC	Integrated Circuits Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8.	14242108	SP	Semester Proficiency$	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
9.	14242109	PBL	Macro Project-I#	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
10.	14242110	SLP	Self-learning/Presentation$$$ (SWAYAM/NPTEL/MOOC)	-	-	-	-	40	-	40	-	-	2	1	Mentoring	SO	-
11.	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-
			Total	**125**	**125**	**100**	**150**	**350**	**90**	**940**	**11**	**05**	**10**	**21**	**-**	**-**	**-**
12.	14242111	MAC	Cyber Security	25	25	30	30	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5Hrs
13.	14242112	MWS	Mandatory Workshop on Mastering Competitive Success at Department Level											GRADE	Interactive	MCQ	-
			Skill Internship Program(Institute Level) (Qualifier): Minimum 30 hours duration: To be credited in IV Semester														

$Semester Proficiency– includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses

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

#Macro Project-I will be presented and evaluated through an interdisciplinary project evaluation committee.

$$$Compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance and presentation.

HSMC	BSC	ESC	DC	DE	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
0	1	0	4	0	0	2	1	1	0	1	0	1	1	1

Mode of Learning					Mode of Examination					Total Credits
Theory		Lab			Theory				Lab	
Face to Face	Online	Blended	Experiential	Experimental	PP	AO	MCQ	OB	SO	Total Credits
16	_	_	1	2	6	2	6	-	4	
76	-	-	4.7	9.5	28.57	9.5	28.57	-	19	Credits %

माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
Deemed University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ GRADE

Scheme of Evaluation
B. Tech. IV Semester (EL) *(for batch admitted in academic session 2024-25)*

S. No.	Course Code	Category Code	Course Name	Theory Block — Continuous Evaluation — Minor Evaluation I	Minor Evaluation II	Quiz/Assignment	Major Evaluation	Practical Block — Continuous Evaluation — Lab Work & Sessional	Major Evaluation	Total Marks	L	T	P	Total Credits	Mode of Learning	Mode of Major Evaluation.	Duration of Major Evaluation.
1	14242201	DC	Digital Signal Processing	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
2	14242202	DC	Microprocessor and Interfacing	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
3	14242203	DC	Wireless Communication	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
4	14242204	DC	Electromagnetic Theory	25	25	20	30	-	-	100	2	1	-	3	Face to Face	MCQ	2 Hrs
5	14242205	DC	System Design using Verilog	25	25	20	30	-	-	100	3	-	-	3	Face to Face	MCQ	2 Hrs
6	14242206	DLC	Microprocessor and Interfacing Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
7	14242207	DLC	Wireless Communication Lab	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
8	14242208	DLC	System Design Lab using Verilog	-	-	-	-	70	30	100	-	-	2	1	Experimental	AO	-
9	14242209	SP	Semester Proficiency$	-	-	-	-	50	-	50	-	-	2	1	Face to Face	SO	-
10	14242210	PBL	Macro Project-II#	-	-	-	-	70	30	100	-	-	2	1	Experiential	SO	-
11	NECXXXXX	NEC	Novel Engaging Course (Activity Based Learning)	-	-	-	-	50	-	50	-	1	-	1	Interactive	SO	-
12	SIP3XXXX	SIP	Skill Internship Program	-	-	-	-	60	-	60	-	-	4	2**	Experien	SO	

Recommended in the Board of Studies Meeting of Department of Electronics Engineering held on 3rd Dec 2025

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			Total	125	125	100	150	490	188	1110	11	05	14	23		-	-	-
13	14242211	MAC	Project Management, Economics & Financing	-	-	-	-	100	-	100	2	-	-	GRADE		Blended	SO	-
14	14242212	MWS	Mandatory Workshop on Intellectual Property Rights at Department Level											GRADE		Interactive	MCQ	-
			Summer Semester of six-eight week duration will be conducted for makeup of previous semester examination.															
			Additional Course for Honours or Minor Degree: Permitted to opt for maximum two additional courses for the award of Honours or Minor Degree															

$Semester Proficiency– includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in the semester courses

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

#Macro Project-II will be presented and evaluated through an interdisciplinary project evaluation committee.

**These credits will be transferred from Skill Internship Program.

PC	BSC	ESC	DC	DE	SPC	OC	DLC	NEC	SP	SIP	SLP	PDC	PBL	MAC	MWS
1	0	0	5	0	0	0	3	1	1	1	0	0	1	1	2

Mode of Learning							Mode of Examination						Total Credits
Theory		NEC	Lab				Theory			NEC	Lab		
Face to Face	Online	Interactive	Face to Face	Blended	Experiential	Experimental	PP	MCQ	OB	SO	AO	SO	Total Credits
15	0	1	1	0	3	3	6	9	0	1	3	5	42
62.5%	0%	4.16%	4.16%	0%	4.16%	9.5%	25%	37.5 %	0%	4.16%	12.5%	20.83%	Credits %

Recommended in the Board of Studies Meeting of Department of Electronics Engineering held on 3rd Dec 2025