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

Scheme of Evaluation B.Tech V Semester (Electrical Engineering)

For batch admitted in academic session 2023– 2024

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.	3130511	DC	Signals & Systems	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2Hrs
2.	3130512	DC	Control Systems	50	10	20	20	40	30	30	200	2	1	2	4	Blended	PP	2Hrs
3.	3130513	DC	Power Electronics	50	10	20	20	40	30	30	200	2	1	2	4	Blended	PP	2Hrs
4.	3130514	DC	Switchgear & Protection	50	10	20	20	40	30	30	200	2	1	2	4	Blended	PP	2Hrs
5.	3130515	MC	Data Science	50	10	20	20	40	30	30	200	2	1	2	4	Blended	MCQ	1.5Hrs
6.	3130516	DLC	Minor Project-I**	-	-	-	-	40	60	-	100	-	-	4	2	Offline	SO	-
7.	3130517	DLC	Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)#	-	-	-	-	-	40	-	40	-	-	2	1	Online+ Mentoring	SO	-
8.	3130518	DLC	Skill Internship Project (Institute Level Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO	-
9.	200xxx	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO	-
			Total	250	50	100	100	310	220	120	1150	11	4	20	25			
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-	-	100	2	-	-	Grade	Blended	MCQ	1.5Hrs
Additional Course for Honours or Minor Specialization				Permitted to opt for maximum two additional courses for the award of Honours or Minor Specialization														

$proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.

$$MCQ: Multiple Choice Question $$AO: Assignment + Oral $$PP: Pen Paper $$SO: Submission + Oral

** Minor Project-I may be evaluated by an internal committee for awarding sessional marks.

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

1. In each semester (starting from V to VIII semester), itis required to opt for new subjects towards Honours Degree/MinorSpecialization.
2. Credit for opting a particular NPTEL course will be given only once throughout the tenure of B.Tech. program

Mode of Teaching					Mode of Examination					Total Credits
Theory			Lab	NEC/SIP	Theory			Lab	SIP/ SLP/ NEC	
Offline	Online	Blended	Offline	Interactive	PP	A+O	MCQ	SO	SO	
-	-	15	8	2	12	-	3	6	4	25
-	-	60%	32 %	8.0%	48 %	-	12 %	24 %	16 %	Credits %

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

B. Tech. with Honors (Electrical Engineering)
(For students of the host department: Electrical Engineering)
* Course run through SWAYAM/NPTEL/MOOC Learning Based Platform
(In each semester, starting from V to VIII semester, students are required to opt for new subjects)

List of courses to be opted for Honors in B. Tech V Semester

Honours*(to be opted by students of Parent Department) (V Semester Electrical Engineering)		
Specialization 1 **Control & Instrumentation**	**Specialization 2** **Power System & Energy**	**Specialization 3** **Internet of Things (IoT)**
Linear Dynamical Systems (12 Weeks)	Charging Infrastructure (12 Weeks)	Introduction to Internet of Things (12 Weeks)
Introduction to Industry 4.0 and Industrial Internet of Things (12 Weeks)	Power System Analysis (12Weeks)	Introduction to Industry 4.0 and Industrial Internet of Things (12 Weeks)
Introduction to Fuzzy Set Theory, Arithmetic and Logic (12 Weeks)	Introduction to Fuzzy Set Theory, Arithmetic and Logic (12 Weeks)	Introduction to Fuzzy Set Theory, Arithmetic and Logic (12 Weeks)

Note: In each semester(starting from V to VIII semester), it is required to opt for new subjects towards Honours Degree/DE/OC.
Credit for opting a particular NPTEL course will be given only once throughout the tenure of B.Tech. program

List of courses to be opted for Minor specialization in B. Tech V Semester(for students of other discipline)

Minor Specialization * (for students other discipline)	
Basic Electrical Circuits (12 Weeks)	Electrical Measurement and Electronic Instruments (12 Weeks)
Power System Analysis (12 Weeks)	Analog Electronic Circuit (12 Weeks)
Electrical Machines – I (12 Weeks)	Control Engineering (12 Weeks)