



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

**Scheme of Evaluation**  
**B. Tech. VI Semester (Electrical Engineering)** *For batch admitted in academic session 2021-22*

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			MOOCs		L	T	P					
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation		Assignment									Exam
				End Sem. Exam.	Proficiency in subject /course	Mid Sem. Exam	Quiz/ Assignment		Lab work & Sessional	Skill Based Mini Project										
1.	130615	DC	Switchgear & Protection	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP	2 Hrs
2.	130616	DC	Control Systems	50	10	20	20	60	20	20	-	-	200	2	1	2	4	Blended	PP	2 Hrs
3.	130661/62/65/66	DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	-
4.	9101**	OC	Open Category (OC-1)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
5.	130617	MC	Artificial Intelligence & Machine Learning	50	10	20	20	60	20	20	-	-	200	2	1	2	4	Blended	MCQ	1.5 Hrs
6.	130618	DLC	Minor Project-II**	-	-	-	-	60	40	-	-	-	100	-	-	4	2	Offline	SO	-
7.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	-	-	50	-	-	2	1	Interactive	SO	-
<b>Total</b>				<b>200</b>	<b>40</b>	<b>80</b>	<b>80</b>	<b>290</b>	<b>100</b>	<b>60</b>	<b>25</b>	<b>75</b>	<b>950</b>	<b>13</b>	<b>2</b>	<b>12</b>	<b>21</b>	-	-	-
8.	1000007	MAC	Intellectual Property Rights (IPR)	50	10	20	20	-	-	-	-	-	100	2	-	-	Grade	Online	MCQ	1.5 Hrs

Summer Internship-III (On Job-Training) for Four weeks duration: Evaluation in VII Semester

Additional Course for Honours or minor Specialization Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization

<sup>S</sup>Proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.

<sup>SS</sup>MCQ: Multiple Choice Question      <sup>SS</sup>AO: Assignment + Oral      <sup>SS</sup>PP: Pen Paper      <sup>SS</sup>SO: Submission + Oral

\*Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform with credit transfer

\*\* The minor project-II may be evaluated by an internal committee for awarding sessional marks.

Mode of Teaching					Mode of Examination					Total Credits
Theory		Lab	NEC		Theory		Lab	NEC		
Offline	Online	Blended	Offline	Interactive	PP	AO	MCQ	SO	SO	
00	03	12	05	01	11	00	07	02	01	21
00%	14.29%	57.14%	23.81%	4.76%	52.4%	00%	33.3%	9.5%	4.8%	Credits %

*Handwritten signatures and initials:* Ke, SS, AO, PP, SO, etc.



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DE-1 (SWAYAM/NPTEL/ MOOC platform)		**Open Category (OC-1) (For students of other branches)	
130661	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	910104	Energy Conservation & Management
130662	Non-conventional Energy Resources	910105	Biomedical Instrumentation
130665	Design Of Power Electronic Converters	910106	Industrial Automation
130666	EV - Vehicle Dynamics and Electric Motor Drives		

**List of courses to be opted for Minor specialization in B. Tech VI Semester**

Minor specialization *(to be opted by students of Other Department)	
Course Code	Course Name
M130605	Fundamentals of Power Electronics (12 Weeks)
M130602	Power System Engineering (12 Weeks)
<del>M130608</del>	<del>Electrical Machines - II (12 Weeks)</del>
M130606	Principles of Signals and Systems (12 Weeks)
M130614	Sensors and Actuators (12 Weeks)
M130607	Control Engineering (12 Weeks)
M130609	Network Analysis (12 Weeks)

**List of courses to be opted for Honours specialization in B. Tech VI Semester**

\* Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform

Honours* (to be opted by students of Parent Department)		
Specialization 1: Control & Instrumentation	Specialization 2: Power System & Energy	Specialization 3: Internet of Things (IoT)
Course Name:	Course Name	Course Name
(H130618) Microprocessors and Microcontrollers (12Weeks)	(H130620) Operation and Planning of Power Distribution Systems (12 Weeks)	(H130622) Introduction to Internet Of Things (12 Weeks) 607
(H130603) Linear Dynamical Systems (08Weeks)	(H130621) Power System Engineering(12Weeks)	(H130619) Sensors and Actuators (12 Weeks)
(H130614) Fuzzy Sets, Logic and Systems & Applications (12 Weeks)	(H130614) Fuzzy Sets, Logic and Systems & Applications (12 Weeks)	(H130614) Fuzzy Sets, Logic and Systems & Applications(12 Weeks)
(H130619) Sensors and Actuators (12 Weeks) 607	(H130618) Microprocessors and Microcontrollers (12Weeks)	(H130618) Microprocessors and Microcontrollers (12Weeks)

**Note: In each semester (starting from V to VIII semester), it is required to opt for new subjects towards Honours Degree/ Minor Specialization**

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