

Madhav Institute of Technology & Science Gwalior-5

Department : ELECTRICAL ENGINEERING

Year 2019-2023

S.No.	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
1	100001: Engineering Mathematics II	2.05	2.05	2.05	2.05	2.05		2.08					2.09	2.05	2.05
2	130301: Electro Magnetic Field Theory	2.21	2.21	2.21						2.23				2.21	
3	130302: Measurement & Instrumentation	2.23	2.23	2.23	2.23	2.23	2.24		2.23	2.21	2.23	2.23	2.24	2.25	2.24
4	130302: Measurement & Instrumentation (LAB)	2.28	2.28	2.28	2.28		2.28	2.28	2.28	2.28	2.28				2.28
5	130303: Network Analysis	2.27	2.27	2.26	2.27	2.27	2.28	2.27	2.27	2.27	2.27		2.27	2.27	2.27
6	130303: Network Analysis (LAB)	2.06	2.20	2.20	2.33		2.26	2.26	2.26	2.26	2.26				2.26
7	130304: Analog Electronics	2.19	2.19	2.19	2.19		2.19			2.20				2.19	
8	130304: Analog Electronics (LAB)		2.11					2.12	2.11	2.13	2.11	2.12	2.11		2.11
9	130305: Software Lab-I	2.15			2.15	2.15				2.13	2.13	2.15		2.15	2.15
10	130309 : Summer Internship	2.15	2.15	2.15						2.15	2.15	2.15		2.15	
11	130402: Electrical Machines-I	2.14	2.14	2.14	2.14	2.21	2.13	2.25	2.17	2.12	2.17	2.13	2.17	2.13	2.11
12	130402: Electrical Machines-I (LAB)				2.13			2.14	2.15	2.14	2.14	2.13		2.17	
13	130401: Digital Electronics & Microprocessor	2.17	2.18	2.18										2.16	
14	130401: Digital Electronics & Microprocessor (LAB)						2.20	2.20	2.20					2.20	
15	130403 : Control Systems	2.30	2.30	2.30	2.30	2.30	2.34	2.30	2.30	2.30	2.30		2.32	2.32	2.33
16	130404: Power System-I	2.30	2.30	2.30	2.31	2.30	2.24	2.17	2.31	2.17	2.32	2.33	2.23	2.30	2.26
17	100004: Cyber Security	2.12	2.08	2.06	2.13	2.12	2.07	2.13	2.09	2.13	1.92		2.10	2.18	2.22
18	130405: Simulation Lab-II:	2.35			2.35	2.35								2.35	
19	Management				2.20	2.10	2.14	1.99	2.08	2.08	2.08		2.08		
20	130501: Signals & Systems	2.26	2.26	2.26	2.26	2.26									
21	130502: Power System II	1.98	1.98	1.98	1.98	1.98	1.98	1.98		1.98	1.98	1.98	1.98	1.98	1.98
22	130502: Power System II (Lab)	2.15	2.16	2.16	2.16	2.16	2.16	2.16		2.16	2.13	2.21	2.16		2.16
23	130503: Electrical Machine-II	2.29	2.30	2.30	2.28			2.29	2.30			2.29		2.30	
24	130503:Electrical Machine-II (Lab)				1.91		2.15		1.95	2.01	1.36	1.89		1.77	1.91
25	130504 : Power Electronics	2.23	2.23	2.23		2.23	2.23				2.23				
26	130504: Power Electronics (Lab)	2.37	2.36	2.38		2.38	2.38				2.38				
27	130505: Minor Project-I	2.27	2.27	2.27					2.21	2.21	2.21	2.21		2.21	2.21
28	130506: Summer Internship Project-II	2.43	2.43	2.43					2.43	2.43	2.43	2.43			
29	130507:Seminar/Self Study	2.21	2.21	2.21					2.18	2.18	2.18	2.18		2.18	2.18
30	130601:Switchgear & Protection	2.26	2.21	2.22		2.26	2.27					2.21		2.18	

31	130601:Switchgear & Protection Lab								2.34	2.34	2.34	2.34	2.25		2.34
32	130602: Electrical Engineering Materials	2.28	2.28	2.28	2.28	2.28	2.28	2.28		2.28	2.28	2.28	2.28	2.26	2.28
33	130611 : Computer Aided Power System Analysis (DE-1)	2.44	2.45	2.46		2.46	2.46				2.46				
34	130612:Industrial Automation (DE1)					2.34	2.32	2.34		2.35	2.35	2.35	2.35	2.54	2.34
35	130651: Non Conventional Energy Resources DE2(SWA)	1.74	1.39	2.22		0.63	0.89	2.22		0.89	1.59	2.22	0.63		
36	130603: Minor Project-II	2.18	2.18	2.18					2.12	2.12	2.12	2.12		2.12	2.12
37	100007:Disaster Management	1.68	2.23			1.33	2.23			2.23	2.23			2.23	2.23
38	130711: Electrical Drives (DE3)	2.24	2.27	2.22	2.19	2.23	2.30	2.23		2.25	2.24	2.22	2.23		
39	130712: Renewable Energy System (DE3)	2.32	2.36		2.28	2.32	2.36	2.39		2.35	2.31		2.32	2.32	2.32
40	130713: IoT in MicroGrid (DE3)	2.18	2.24		2.25	2.26	2.24	2.18		2.27	2.19		2.26	2.20	2.20
41	130714: Intelligent Sensors and Instrumentation (DE3)	2.24	2.23	2.23	2.27	2.28	2.24		2.24	2.24	2.24	2.24	2.27	2.24	2.24
42	130751: Introduction to Smart Grid DE4) (NPTEL)	2.09	2.09		2.09	2.09	2.09			2.09	2.09		2.09	2.09	2.09
43	900201:Applications of Electrical Motor & Equipment	2.03	2.03	2.07	1.96	2.17	1.88				2.04		1.96	2.03	2.03
44	130701:Control System Lab	2.29	2.22	2.05	2.29	2.20	2.20	2.22		2.22	2.22	2.22	2.22	2.20	2.22
45	130702: Summer Internship Project	2.31	2.31	2.31	2.31				2.31	2.31	2.31	2.31	2.31	2.31	2.31
46	130703: Creative Problem Solving	2.14	2.14	2.14	2.14	2.14				2.14	2.14	2.14	2.14	2.14	2.14
47	100008:Intellectual Property Rights(IPR)	2.29	2.29	2.33	2.31	2.31	2.36	2.45	2.33	2.33	2.29	2.54	2.32	2.32	2.33
48	130801 : Internship/ Project	2.34	2.35	2.35	2.35				2.35	2.35	2.35	2.35		2.35	2.35
49	130802 : Professional Development						2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29

PO Attainment Level (Direct)	2.20	2.21	2.23	2.21	2.15	2.18	2.22	2.23	2.18	2.18	2.22	2.14	2.21	2.21
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	INDIRECT PO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
Survey	(Exit Survey)	2.17	2.31	2.17	2.12	2.03	2.15	2.27	2.39	2.29	2.46	2.32	2.31	2.21	2.29
Survey	(Alumni Survey)	2.26	2.24	2.28	1.89	2.30	2.44	2.37	2.30	2.17	2.30	2.37	2.17	2.42	1.96
Survey	(Employer Survey)	2.31	2.15	2.10	2.15	2.12	2.31	2.15	2.39	2.15	2.20	2.18	2.26	2.15	2.23
	PO Attainment Level (Indirect)	2.25	2.23	2.18	2.05	2.15	2.30	2.27	2.36	2.20	2.32	2.29	2.24	2.26	2.16

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Direct PO Attainment	2.20	2.21	2.23	2.21	2.15	2.18	2.22	2.23	2.18	2.18	2.22	2.14	2.20	2.20
Indirect PO Attainment	2.25	2.23	2.18	2.05	2.15	2.30	2.27	2.36	2.20	2.32	2.29	2.24	2.26	2.16
Overall PO Attainment	2.21	2.21	2.22	2.18	2.15	2.21	2.23	2.26	2.18	2.21	2.24	2.16	2.21	2.20

Target PO Attainment	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
Attainment Gap	-0.01	-0.01	-0.02	0.02	0.05	-0.01	-0.03	-0.06	0.02	-0.01	-0.04	0.04	-0.01	0.00

