

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.)

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

Department of Electronics Engineering

CO Attainment (Direct & Indirect) for the session July - Dec 2021

Semester	Course	CO	Direct CO Attainment	Indirect CO Attainment (using feedback)	Total CO Attainment (in %)	Target CO Attainments in terms of levels	Gap Analysis (Target Attainment - Attainment Achieved)	Action taken
III	140301 Electronics Circuits Design	CO1	2.5	2.0	2.4	2	-0.4	All CO Target achieved. Higher order thinking questions can be added in question paper
		CO2	2.6	2.0	2.48	2	-0.48	
		CO3	2.7	1.3	2.42	2	-0.42	
		CO4	2.6	2.0	2.48	2	-0.48	
		CO5	2.7	1.3	2.42	2	-0.42	
	140302 Electronics Measurement & Instrumentation	CO1	2.6	2.2	2.52	2	-0.52	Target for CO1, CO2, CO3 & CO4 have achieved however target for CO5 has NOT achieved. Following actions can be taken; <ul style="list-style-type: none"> • More assignment can be given for practise. • Conduct more quizzes.
		CO2	2.9	2.6	2.84	2	-0.84	
		CO3	2.8	2.3	2.7	2	-0.7	
		CO4	2.2	2.9	2.34	2	-0.34	
		CO5	1.8	2.4	1.92	2	0.08	
	140303 Network Theory	CO1	2.6	2.0	2.48	2	-0.48	Target for CO1, CO2 & CO3 have achieved however target for CO4 & CO5 have NOT achieved. Following actions can be taken; <ul style="list-style-type: none"> • Numerical based tutorials can be given for practise. • Numerical problems should be solved during class. • Assign mini projects.
		CO2	2.3	2.2	2.28	2	-0.28	
		CO3	2.0	2.2	2.04	2	-0.04	
		CO4	1.8	2.2	1.88	2	0.12	
		CO5	1.7	2.9	1.94	2	0.06	
	140304 Signals & Systems	CO1	2.7	1.6	2.48	2	-0.48	Target for CO1 & CO5 have achieved however target for CO2, CO3 & CO4 have NOT achieved. Following actions can be taken; <ul style="list-style-type: none"> • Conduct more tutorial classes. • More numerical
		CO2	2.1	1.3	1.94	2	0.06	
		CO3	1.7	2.2	1.8	2	0.2	
		CO4	1.1	1.6	1.2	2	0.8	
		CO5	2.4	1.3	2.18	2	-0.18	

								can be added in assignments
V	140502 EMT	CO1	2.5	2.3	2.46	2	-0.46	Target for CO1, CO2, CO3 & CO4 have achieved however target for CO5 has NOT achieved. Following actions can be taken; <ul style="list-style-type: none"> • Solution of tutorial/assignment should be discussed. • Conduct additional classes.
		CO2	2.1	2.3	2.14	2	-0.14	
		CO3	2.2	2.5	2.26	2	-0.26	
		CO4	2.7	2.2	2.6	2	-0.6	
		CO5	1.5	1.9	1.58	2	<u>0.42</u>	
	140503 Data Communication	CO1	1.7	1.7	1.7	2	<u>0.3</u>	Target for CO4 has achieved however target for CO1, CO2, CO3 & CO5 have NOT achieved. Following actions can be taken; <ul style="list-style-type: none"> • More assignments should be given and solutions should be discussed • Conduct doubt clearing session regularly.
		CO2	1.8	1.4	1.72	2	<u>0.28</u>	
		CO3	1.5	1.7	1.54	2	<u>0.46</u>	
		CO4	2.5	2.1	2.42	2	-0.42	
		CO5	1.4	2.1	1.54	2	<u>0.46</u>	
	140504 Linear Control Theory	CO1	2.2	1.8	2.12	2	-0.12	Target for CO1, CO2 & CO3 have achieved however target for CO4 & CO5 have NOT achieved. Following actions can be taken; <ul style="list-style-type: none"> • Mini projects should be given. • Numerical problems should be solved in class.
		CO2	2.6	1.3	2.34	2	-0.34	
		CO3	2.1	1.8	2.04	2	-0.04	
		CO4	1.6	1.5	1.58	2	<u>0.42</u>	
		CO5	2.1	1.3	1.94	2	<u>0.06</u>	
	140505 Digital Communication	CO1	2.3	1.7	2.18	2	-0.18	Target for CO1, CO2 CO3 & CO5 have achieved however target for CO4 has NOT achieved. Following actions can be taken; <ul style="list-style-type: none"> • Conduct more tutorials session • Numerical based assignment should be given.
		CO2	2.6	1.8	2.44	2	-0.44	
		CO3	2.7	1.6	2.48	2	-0.48	
		CO4	1.4	1.7	1.46	2	<u>0.54</u>	
		CO5	2.7	1.6	2.48	2	-0.48	
VII	DE-3 Microwave Engineering	CO1	2.9	1.2	2.56	2.25	-0.31	Target for CO1 & CO5 have achieved however target for CO2, CO3 & CO4 have NOT achieved. Following
		CO2	2.4	1.0	2.12	2.25	<u>0.13</u>	
		CO3	0.7	1.8	0.92	2.25	<u>1.33</u>	

		CO4	2.3	1.8	2.2	2.25	0.05	actions can be taken; <ul style="list-style-type: none"> More quizzes should be conducted. Solution of previous paper should be discussed.
		CO5	2.9	1.9	2.7	2.25	-0.45	
	DE-3 Sattelite & RADAR Communic ation	CO1	2.2	2.6	2.28	2.25	-0.03	Target for CO1 has achieved however target for CO2, CO3, CO4 & CO5 have NOT achieved. Following actions can be taken; <ul style="list-style-type: none"> More tutorial should be solved in class. Conduct presentation sessions.
		CO2	1.7	2.2	1.8	2.25	0.45	
		CO3	1.5	2.6	1.72	2.25	0.53	
		CO4	1.2	2.2	1.4	2.25	0.85	
		CO5	1.1	1.9	1.26	2.25	0.99	
	DE-3 VLSI Design	CO1	2.3	1.3	2.1	2	-0.1	Target for CO1, CO2, CO4 & CO5 have achieved however target for CO3 has NOT achieved. Following actions can be taken; <ul style="list-style-type: none"> Case study on VLSI circuit should be given. Conduct more remedial classes.
		CO2	2.4	0.7	2.06	2	-0.06	
		CO3	2.2	0.1	1.78	2	0.22	
		CO4	2.9	0.3	2.38	2	-0.38	
		CO5	2.5	0.3	2.06	2	-0.06	
	OC-3 (MEMS)	CO1	2.9	1.9	2.7	2	-0.7	All CO Target achieved. Difficulty level of questions can be increase in question paper
		CO2	2.9	2.3	2.78	2	-0.78	
		CO3	2.9	2.5	2.82	2	-0.82	
		CO4	2.6	2.2	2.52	2	-0.52	
		CO5	2.2	1.9	2.14	2	-0.14	

Total No of courses	Total number of COs	Number of COs NOT attained target level	% of COs not attained	Action taken
12	60	22	37%	<ul style="list-style-type: none"> More assignments/ tutorials should be given & solutions should be discussed related to specific CO Conduct additional Classes focused on specific CO. Assign mini projects. Conduct Interaction/ expert session.