

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

NAAC Accredited with A++ Grade

ANNEXURE – XI

CO Attainment & Gap Analysis Jan – June 2023

Table.1: CO Attainment & Gap Analysis of I Year, II SEM

Course Code & Name	Faculty Assigned	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
2110221: Surveying	Prof. A. K. Dwivedi	CO 1	2.24	3.00	2.39	2.5	0.11	Not Attained	More assignments given on Linear & angular measurements
		CO 2	2.34	3.00	2.47	2.5	0.03	Not Attained	More assignments given to analyse different survey problem
		CO 3	2.40	3.00	2.52	2.5	-0.02	Attained	Rubrics for the level can be modified
		CO 4	2.39	3.00	2.51	2.5	-0.01	Attained	Rubrics for the level can be modified
		CO 5	2.19	3.00	2.35	2.5	0.15	Not Attained	More assignments given on curve
2110222: Strength of Materials	Dr. Sanjay Tiwari	CO 1	2.10	3.00	2.28	2.5	0.22	Not Attained	More demonstration and assignments given
		CO 2	2.15	3.00	2.32	2.5	0.18	Not Attained	
		CO 3	1.98	3.00	2.18	2.5	0.32	Not Attained	
		CO 4	1.88	3.00	2.10	2.5	0.40	Not Attained	
		CO 5	1.95	3.00	2.16	2.5	0.34	Not Attained	
2110222: Strength of	Dr. Hemant Shrivastava &	CO 1	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be

Materials (Lab)	Dr. Abhilash Shukla								modified
		CO 2	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 3	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 4	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 5	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
2110223: Survey Practice Lab	Prof. Gautam Bhadoriya & Prof. Shailendra Hariouhd	CO 1	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 2	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 3	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 4	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 5	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified

Table.2: CO Attainment & Gap Analysis of II Year, IV SEM

Course Code & Name	Faculty Assigned	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
110411: Geotechnical Engineering-I	Prof. Shailendra Hariouhdh & Prof. Deepanshu Agrawal	CO 1	2.44	3.00	2.56	2.5	-0.06	Attained	Rubrics for the level can be modified
		CO 2	2.32	3.00	2.46	2.5	0.04	Not Attained	More assignments given to examine the shear parameters
		CO 3	2.28	3.00	2.42	2.5	0.08	Not Attained	More assignments given to determine the stress and shear failure
		CO 4	2.35	3.00	2.48	2.5	0.02	Not Attained	More assignments given to evaluate the shear strength
		CO 5	2.27	3.00	2.42	2.5	0.08	Not Attained	More assignments given to analyse the stability of slopes
110411: Geotechnical Engineering-I (Lab)	Prof. Shailendra Hariouhdh & Prof. Deepanshu Agrawal	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 2	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 3	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 4	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 5	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
110412:	Dr. Sanjay	CO 1	1.49	3.00	1.79	2.5	0.71	Not Attained	More assignments

Theory of Structures-I	Tiwari & Dr. Hemant Shrivastava								given on different type of structure
		CO 2	1.84	3.00	2.08	2.5	0.42	Not Attained	More assignments given on various method for analysis of structure
		CO 3	1.81	3.00	2.05	2.5	0.45	Not Attained	More assignments given on various method for analysis of structure
		CO 4	1.65	3.00	1.92	2.5	0.58	Not Attained	More assignments given on various method for analysis of structure
		CO 5	1.89	3.00	2.11	2.5	0.39	Not Attained	More assignments given to evaluate different structure
110413: Transportation Engineering	Dr. M. K. Trivedi	CO 1	2.03	3.00	2.23	2.5	0.27	Not Attained	More assignments given on highway design
		CO 2	2.02	3.00	2.22	2.5	0.28	Not Attained	More assignments given to evaluate properties of highway material
		CO 3	2.00	3.00	2.20	2.5	0.30	Not Attained	More assignments given on traffic engineering
		CO 4	2.09	3.00	2.28	2.5	0.22	Not Attained	More assignments given on design pavement
		CO 5	2.11	3.00	2.29	2.5	0.21	Not Attained	More assignments to formulate the layers of pavement
110413: Transportation Engineering (Lab)	Dr. M. K. Trivedi & Prof. A. K. Dwivedi	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 2	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 3	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified

		CO 4	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 5	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
110415: Civil Engineering Drawing Lab	Prof. Gautam Bhadoriya & Dr. Hemant Shrivastava	CO 1	2.78	1.50	2.52	2.5	-0.02	Attained	Rubrics for the level can be modified
		CO 2	2.88	1.50	2.60	2.5	-0.10	Attained	Rubrics for the level can be modified
		CO 3	2.89	1.50	2.61	2.5	-0.11	Attained	Rubrics for the level can be modified
		CO 4	2.71	3.00	2.77	2.5	-0.27	Attained	Rubrics for the level can be modified

Table.3: CO Attainment& Gap Analysis of III Year, VI SEM

Course Code & Name	Faculty Assigned	Course Outcomes		Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
		Direct CO Attainment							
110620: Artificial Intelligence & Machine Learning	Dr. Hemant Shrivastava & Dr. Abhilash Shukla	CO 1	2.48	3.00	2.58	2.5	-0.08	Attained	Rubrics for the level can be modified
		CO 2	2.55	3.00	2.64	2.5	-0.14	Attained	Rubrics for the level can be modified
		CO 3	2.50	3.00	2.60	2.5	-0.10	Attained	Rubrics for the level can be modified
		CO 4	2.60	3.00	2.68	2.5	-0.18	Attained	Rubrics for the level can be modified
		CO 5	2.57	3.00	2.65	2.5	-0.15	Attained	Rubrics for the level can be modified
110620: Artificial Intelligence & Machine Learning (Lab)	Dr. Hemant Shrivastava & Dr. Abhilash Shukla	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 2	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 3	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 4	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
110621: Waste Water Engineering	Prof. A. K. Saxena & Prof. Deepanshu Agrawal	CO 1	2.41	3.00	2.53	2.5	-0.03	Attained	Rubrics for the level can be modified
		CO 2	2.38	3.00	2.50	2.5	0.00	Attained	Rubrics for the level can be modified
		CO 3	2.40	3.00	2.52	2.5	-0.02	Attained	Rubrics for the

									level can be modified
		CO 4	2.31	3.00	2.45	2.5	0.05	Not Attained	More assignments on problems analysis
		CO 5	2.33	3.00	2.46	2.5	0.04	Not Attained	More assignments on design problems
110621: Waste Water Engineering (Lab)	Prof. A. K. Saxena & Prof. Deepanshu Agrawal	CO 1	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 2	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 3	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 4	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 5	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
110623: Estimate Costing & Contract	Prof. A. K. Dwivedi & Prof. Ashutosh Singh Yadav	CO 1	2.24	3.00	2.39	2.5	0.11	Not Attained	More assignments
		CO 2	2.34	3.00	2.47	2.5	0.03	Not Attained	More assignments
		CO 3	2.40	3.00	2.52	2.5	-0.02	Attained	Rubrics for the level can be modified
		CO 4	2.39	3.00	2.51	2.5	-0.01	Attained	Rubrics for the level can be modified
		CO 5	2.19	3.00	2.35	2.5	0.15	Not Attained	More assignments
110624: Minor Project-II	Dr. Hemant Shrivastava	CO 1	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 2	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
		CO 3	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified

		CO 4	3.00	1.50	2.70	2.5	-0.20	Attained	Rubrics for the level can be modified
910111: Building Maintenance & Services	Prof. Gautam Bhadoriya	CO 1	2.47	3.00	2.57	2.5	-0.07	Attained	Rubrics for the level can be modified
		CO 2	2.54	3.00	2.63	2.5	-0.13	Attained	Rubrics for the level can be modified
		CO 3	2.75	3.00	2.80	2.5	-0.30	Attained	Rubrics for the level can be modified
		CO 4	2.50	3.00	2.60	2.5	-0.10	Attained	Rubrics for the level can be modified
		CO 5	2.53	3.00	2.62	2.5	-0.12	Attained	Rubrics for the level can be modified

Table.4: CO Attainment& Gap Analysis of IV Year, VIII SEM

Course Code & Name	Faculty Assigned	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
110811: Internship/Major Projects	Dr. Abhilash Shukla	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 2	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 3	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 4	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
		CO 5	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified