

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

CIVIL ENGINEERING DEPARTMENT

Course Outcomes Attainment (Jan-June 2022)

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

Course Code & Name	Course Outcomes	Direct CO Attainment Level	Indirect CO Attainment Level	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
100020: Basic Civil Engineering & Mechanics (CE)	CO 1	1.48	3.00	1.79	2.5	0.71	Not Attained	More assignment, on concepts and terminologies of building materials, surveying and mechanics will be conducted.
	CO 2	2.87	3.00	2.90	2.5	-0.40	Attained	Rubrics for the level can be modified
	CO 3	2.14	3.00	2.31	2.5	0.19	Not Attained	Calculation of area and volume of objects on ground Surface will be explained more.
	CO 4	0.00	3.00	0.60	2.5	1.90	Not Attained	More assignment, on survey measurements & techniques will be conducted.
	CO 5	0.00	3.00	0.60	2.5	1.90	Not Attained	Effects of system of forces on rigid bodies in static Conditions will be demonstrated more.
100020: Basic Civil	CO 1	2.97	3.00	2.97	2.5	-0.47	Attained	Rubrics for the level

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Engineering & Mechanics (Lab)								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	2.97	3.00	2.97	2.5	-0.47	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	2.97	3.00	2.97	2.5	-0.47	Attained	Rubrics for the level can be modified
110211: Building Planning & Design	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	2.16	3.00	2.33	2.5	0.17	Not Attained	The law and codal provisions will be explained more.
100020: Basic Civil Engineering & Mechanics (ME&AU)	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
	CO 2	0.00	3.00	0.60	2.5	1.90	Not Attained	More assignment, on concepts and terminologies of

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								building materials, surveying and mechanics will be conducted.
	CO 3	1.73	3.00	1.99	2.5	0.51	Not Attained	Calculation of area and volume of objects on ground Surface will be explained more.
	CO 4	0.00	3.00	0.60	2.5	1.90	Not Attained	More assignment, on survey measurements & techniques will be conducted.
	CO 5	1.01	3.00	1.41	2.5	1.09	Not Attained	Effects of system of forces on rigid bodies in static Conditions will be demonstrated more.
100020: Basic Civil Engineering & Mechanics (EE)	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
	CO 2	2.83	3.00	2.87	2.5	-0.37	Attained	Rubrics for the level can be modified
	CO 3	2.47	3.00	2.57	2.5	-0.07	Attained	Rubrics for the level can be modified
	CO 4	2.57	3.00	2.65	2.5	-0.15	Attained	Rubrics for the level can be modified
	CO 5	2.84	3.00	2.87	2.5	-0.37	Attained	Rubrics for the level can be modified

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

Course Code & Name	Course Outcomes	Direct CO Attainment Level	Indirect CO Attainment Level	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
110402: Geotechnical Engineering - I	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	2.66	3.00	2.73	2.5	-0.23	Attained	Rubrics for the level can be modified
	CO 5	2.39	3.00	2.51	2.5	-0.01	Attained	Rubrics for the level can be modified
110402: Geotechnical Engineering (Practical)	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

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	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
110412: Theory of Structure - I	CO 1	2.52	3.00	2.62	2.5	-0.12	Attained	Rubrics for the level can be modified
	CO 2	1.87	3.00	2.10	2.5	0.40	Not Attained	various methods & principles for analysis of structures will be explain more.
	CO 3	0.72	3.00	1.18	2.5	1.32	Not Attained	Various methods & principles for analysis of Structures will be elaborated more.
	CO 4	0.80	3.00	1.24	2.5	1.26	Not Attained	Structural Analysis methods based practical hands on will be conducted more.
	CO 5	0.00	3.00	0.60	2.5	1.90	Not Attained	Methods of structural analysis will be evaluated more.
110413: Transportation Engineering	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	2.63	3.00	2.71	2.5	-0.21	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	2.24	3.00	2.39	2.5	0.11	Not Attained	The details regarding the

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								drainage and maintance of pavement layer will be explained more.
110413: Transportation Engineering (Practical)	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	2.48	3.00	2.59	2.5	-0.09	Attained	Rubrics for the level can be modified
110414: Water Resources Engineering	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	2.53	3.00	2.62	2.5	-0.12	Attained	Rubrics for the level can be modified
	CO 5	2.90	3.00	2.92	2.5	-0.42	Attained	Rubrics for the level can be modified
	CO 6	2.69	2.69	2.69	2.5	-0.19	Attained	Rubrics for the level can be modified

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110415: Civil Drawing Lab	CO 1	2.67	2.67	2.67	2.5	-0.17	Attained	Rubrics for the level can be modified
	CO 2	3.00	6.00	3.60	2.5	-1.10	Attained	Rubrics for the level can be modified
	CO 3	2.67	2.67	2.67	2.5	-0.17	Attained	Rubrics for the level can be modified
	CO 4	2.67	2.67	2.67	2.5	-0.17	Attained	Rubrics for the level can be modified

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

Course Code & Name	Course Outcomes	Direct CO Attainment Level	Indirect CO Attainment Level	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
110602: Structural Design & Drawing II (R.C.C.)	CO 1	2.51	2.67	2.54	2.5	-0.04	Attained	Rubrics for the level can be modified
	CO 2	3.00	2.67	2.93	2.5	-0.43	Attained	Rubrics for the level can be modified
	CO 3	2.83	2.67	2.80	2.5	-0.30	Attained	Rubrics for the level can be modified
	CO 4	3.00	2.67	2.93	2.5	-0.43	Attained	Rubrics for the level can be modified
	CO 5	2.56	2.67	2.58	2.5	-0.08	Attained	Rubrics for the level can be modified

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								modified
110612: Solid Waste Management	CO 1	2.68	3.00	2.74	2.5	-0.24	Attained	Rubrics for the level can be modified
	CO 2	2.60	3.00	2.68	2.5	-0.18	Attained	Rubrics for the level can be modified
	CO 3	2.46	3.00	2.56	2.5	-0.06	Attained	Rubrics for the level can be modified
	CO 4	2.30	3.00	2.44	2.5	0.06	Not Attained	Application related with various techniques in disposal of waste will be discussed more.
	CO 5	1.86	2.85	2.06	2.5	0.44	Not Attained	Planning of effective & efficient waste management system will be explained more.
110613: Construction Planning & Management	CO 1	79.78	3.00	64.42	2.5	-61.92	Attained	Rubrics for the level can be modified
	CO 2	75.65	3.00	61.12	2.5	-58.62	Attained	Rubrics for the level can be modified
	CO 3	39.68	3.00	32.34	2.5	-29.84	Attained	Rubrics for the level can be modified
	CO 4	78.43	3.00	63.35	2.5	-60.85	Attained	Rubrics for the level can be modified
	CO 5	46.13	3.00	37.50	2.5	-35.00	Attained	Rubrics for the level can be modified

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110614: Railways, Airport & Tunnel Engineering	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
100007: Disaster Management	CO 1	2.72	3.00	2.78	2.5	-0.28	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	2.99	3.00	2.99	2.5	-0.49	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	2.91	3.00	2.93	2.5	-0.43	Attained	Rubrics for the level can be modified
110607: Minor Project - II	CO 1	3.00	2.67	2.93	2.5	-0.43	Attained	Rubrics for the level can be modified

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	CO 2	3.00	2.11	2.82	2.5	-0.32	Attained	Rubrics for the level can be modified
	CO 3	3.00	2.67	2.93	2.5	-0.43	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	2.67	2.93	2.5	-0.43	Attained	Rubrics for the level can be modified
900120: Building Services & Maintenance	CO 1	2.42	2.97	2.53	2.5	-0.03	Attained	Rubrics for the level can be modified
	CO 2	2.88	2.97	2.90	2.5	-0.40	Attained	Rubrics for the level can be modified
	CO 3	2.80	2.97	2.83	2.5	-0.33	Attained	Rubrics for the level can be modified
	CO 4	3.00	2.97	2.99	2.5	-0.49	Attained	Rubrics for the level can be modified
900121: Sustainable Materials & Green Buildings	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
	CO 2	2.52	3.00	2.62	2.5	-0.12	Attained	Rubrics for the level can be modified
	CO 3	2.22	3.00	2.38	2.5	0.12	Not Attained	Application of various guidelines of ECBC, LEED, GRIHA while

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								planning a building will be discussed more.
	CO 4	2.13	3.00	2.30	2.5	0.20	Not Attained	Awareness for Use renewable energy sources in buildings will be enhanced among.