

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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ANNEXURE – XI

CO Attainment & Gap Analysis July – December 2023

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

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment
3110122: Building Materials & Construction	CO 1	1.64	3.00	1.91	2.5	0.59	Not Attained
	CO 2	0.58	3.00	1.06	2.5	1.44	Not Attained
	CO 3	0.64	3.00	1.11	2.5	1.39	Not Attained
	CO 4	1.83	3.00	2.06	2.5	0.44	Not Attained
	CO 5	0.44	3.00	0.95	2.5	1.55	Not Attained
3110122: Building Materials & Construction (Lab)	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained
3110123: Engineering Mechanics	CO 1	0.42	3.00	0.93	2.5	1.57	Not Attained
	CO 2	0.42	3.00	0.94	2.5	1.56	Not Attained
	CO 3	0.41	3.00	0.92	2.5	1.58	Not Attained
	CO 4	0.41	3.00	0.93	2.5	1.57	Not Attained
	CO 5	0.40	3.00	0.92	2.5	1.58	Not Attained
3000005: Environmental Engineering	CO 1	0.74	3.00	1.19	2.5	1.31	Not Attained
	CO 2	0.45	3.00	0.96	2.5	1.54	Not Attained
	CO 3	0.68	3.00	1.15	2.5	1.35	Not Attained
	CO 4	0.44	3.00	0.95	2.5	1.55	Not Attained
	CO 5	0.44	3.00	0.95	2.5	1.55	Not Attained
3100020: Basic Civil Engineering & Mechanics	CO 1	1.75	3.00	2.00	2.5	0.50	Not Attained
	CO 2	2.23	3.00	2.38	2.5	0.12	Not Attained
	CO 3	0.43	3.00	0.94	2.5	1.56	Not Attained
	CO 4	0.42	3.00	0.93	2.5	1.57	Not Attained
	CO 5	0.43	3.00	0.00	2.5	2.50	Not Attained

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

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment
2110321: Fluid Mechanics-I	CO 1	0.74	3.00	1.19	2.5	1.31	Not Attained
	CO 2	0.46	3.00	0.97	2.5	1.53	Not Attained
	CO 3	0.44	3.00	0.95	2.5	1.55	Not Attained
	CO 4	0.43	3.00	0.95	2.5	1.55	Not Attained
	CO 5	0.45	3.00	0.96	2.5	1.54	Not Attained
2110322: Theory of Structures-I	CO 1	0.42	3.00	0.93	2.5	1.57	Not Attained
	CO 2	0.43	3.00	0.94	2.5	1.56	Not Attained
	CO 3	0.42	3.00	0.94	2.5	1.56	Not Attained
	CO 4	0.42	3.00	0.93	2.5	1.57	Not Attained
	CO 5	0.42	3.00	0.94	2.5	1.56	Not Attained
2110323: Geotechnical Engineering	CO 1	0.43	3.00	0.95	2.5	1.55	Not Attained
	CO 2	0.46	3.00	0.96	2.5	1.54	Not Attained
	CO 3	0.44	3.00	0.95	2.5	1.55	Not Attained
	CO 4	0.45	3.00	0.96	2.5	1.54	Not Attained
	CO 5	0.45	3.00	0.96	2.5	1.54	Not Attained
2110323: Geotechnical Engineering (Lab)	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained
2110324: Transportation Engineering	CO 1	0.43	3.00	0.94	2.5	1.56	Not Attained
	CO 2	0.44	3.00	0.95	2.5	1.55	Not Attained
	CO 3	0.43	3.00	0.94	2.5	1.56	Not Attained
	CO 4	0.45	3.00	0.96	2.5	1.54	Not Attained
	CO 5	0.42	3.00	0.94	2.5	1.56	Not Attained
2110324: Transportation Engineering (Lab)	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained

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2110325: Self-Learning/Presentation	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained
2110326: SIP-I	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained
1000005: Project Management & Financing	CO 1	0.43	3.00	0.95	2.5	1.55	Not Attained
	CO 2	0.45	3.00	0.96	2.5	1.54	Not Attained
	CO 3	0.44	3.00	0.95	2.5	1.55	Not Attained
	CO 4	0.46	3.00	0.97	2.5	1.53	Not Attained
	CO 5	0.46	3.00	0.97	2.5	1.53	Not Attained

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

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment
110511: Water Supply Engineering	CO 1	1.40	3.00	1.72	2.5	0.78	Not Attained
	CO 2	1.67	3.00	1.94	2.5	0.56	Not Attained
	CO 3	0.41	3.00	0.93	2.5	1.57	Not Attained
	CO 4	0.42	3.00	0.94	2.5	1.56	Not Attained
	CO 5	0.43	3.00	0.94	2.5	1.56	Not Attained
110511: Water Supply Engineering (Lab)	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained
110512: Theory of Structures-II	CO 1	0.40	3.00	0.92	2.5	1.58	Not Attained
	CO 2	1.28	3.00	1.62	2.5	0.88	Not Attained
	CO 3	0.37	3.00	0.90	2.5	1.60	Not Attained
	CO 4	0.37	3.00	0.90	2.5	1.60	Not Attained
	CO 5	2.18	3.00	2.35	2.5	0.15	Not Attained
110513: SDD (RCC)	CO 1	0.41	3.00	0.92	2.5	1.58	Not Attained
	CO 2	0.40	3.00	0.92	2.5	1.58	Not Attained
	CO 3	0.39	3.00	0.92	2.5	1.58	Not Attained
	CO 4	0.38	3.00	0.90	2.5	1.60	Not Attained
	CO 5	0.41	3.00	0.93	2.5	1.57	Not Attained
110514: Fluid Mechanics-II	CO 1	0.44	3.00	0.95	2.5	1.55	Not Attained
	CO 2	1.26	3.00	1.61	2.5	0.89	Not Attained
	CO 3	1.56	3.00	1.84	2.5	0.66	Not Attained
	CO 4	0.64	3.00	1.11	2.5	1.39	Not Attained
	CO 5	1.12	3.00	1.50	2.5	1.00	Not Attained
110515: Minor Project-I	CO 1	2.39	3.00	2.51	2.5	-0.01	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	2.33	3.00	2.46	2.5	0.04	Not Attained

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	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained
110516: Self Learning/Presentation	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained

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

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment
110731: Hydraulic Structure	CO 1	0.61	3.00	1.09	2.5	1.41	Not Attained
	CO 2	0.42	3.00	0.93	2.5	1.57	Not Attained
	CO 3	0.41	3.00	0.93	2.5	1.57	Not Attained
	CO 4	0.53	3.00	1.02	2.5	1.48	Not Attained
	CO 5	0.41	3.00	0.93	2.5	1.57	Not Attained
110732: Advanced Structural Design (RCC)	CO 1	0.44	3.00	0.95	2.5	1.55	Not Attained
	CO 2	0.41	3.00	0.93	2.5	1.57	Not Attained
	CO 3	0.43	3.00	0.94	2.5	1.56	Not Attained
	CO 4	0.41	3.00	0.93	2.5	1.57	Not Attained
	CO 5	0.41	3.00	0.93	2.5	1.57	Not Attained
110733: Railway, Airport & Tunnel Engineering	CO 1	2.85	3.00	2.88	2.5	-0.38	Attained
	CO 2	2.77	3.00	2.82	2.5	-0.32	Attained
	CO 3	2.85	3.00	2.88	2.5	-0.38	Attained
	CO 4	2.42	3.00	2.54	2.5	-0.04	Attained
	CO 5	2.26	3.00	2.41	2.5	0.09	Not Attained
910211: Integrated Waste Management for Smart City	CO 1	2.76	3.00	2.81	2.5	-0.31	Attained
	CO 2	0.45	3.00	0.96	2.5	1.54	Not Attained
	CO 3	0.45	3.00	0.96	2.5	1.54	Not Attained
	CO 4	2.39	3.00	2.51	2.5	-0.01	Attained
	CO 5	0.45	3.00	0.96	2.5	1.54	Not Attained
	CO6		3.00	0.60	2.5	1.90	Not Attained
910212: Safety & Quality Management	CO 1	2.21	3.00	2.37	2.5	0.13	Not Attained
	CO 2	0.41	3.00	0.93	2.5	1.57	Not Attained
	CO 3	2.23	3.00	2.38	2.5	0.12	Not Attained
	CO 4	1.51	3.00	1.81	2.5	0.69	Not Attained
	CO 5	0.44	3.00	0.95	2.5	1.55	Not Attained
	CO6	2.25	3.00	2.40	2.5	0.10	Not Attained
110716: Software	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained

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Application for Solving Civil Engineering Problem	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained
110717: Creative Problem Solving	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained
110718: SIP-III	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 4	3.00	3.00	3.00	2.5	-0.50	Attained
	CO 5	3.00	3.00	3.00	2.5	-0.50	Attained