



# ANNEXURE – VII

# (CO Attainment Jan - June 2024)





## ANNEXURE – VII

### CO Attainment & Gap Analysis Jan – June 2024

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

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
	CO 1	1.28	3.00	1.62	2.5	0.88	Not Attained	More explain linear & angular measurements
	CO 2	0.44	3.00	0.95	2.5	1.55	Not Attained	More explain leveling & contours
3110221: Surveying	CO 3	0.45	3.00	0.96	2.5	1.54	Not Attained	More assignments on surveying
	CO 4	0.43	3.00	0.94	2.5	1.56	Not Attained	More explain techniques of controlling points
	CO 5	0.44	3.00	0.95	2.5	1.55	Not Attained	More explain the methods for curve setting
	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
0440000	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
3110222: Strength of	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
Material (Lab)	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
3110222: Strength of	CO 1	0.42	3.00	0.93	2.5	1.57	Not Attained	More assignments and numerical





Material	CO 2	0.42	3.00	0.94	2.5	1.56	Not Attained	problems to be given
	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	
	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
0440000	CO 2	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
3110223: Surveying Practice Lab	CO 3	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
FTAULUCE LAD	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





Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
	CO1	0.44	3.00	0.95	2.5	1.55	Not Attained	More explain types of fluid flow & machinery
	CO2	0.46	3.00	0.97	2.5	1.53	Not Attained	More explain principles of fluid flow
2110421: Fluid Mechanics-II	CO3	0.44	3.00	0.95	2.5	1.55	Not Attained	More explain measurement of different forces
	CO4	0.43	3.00	0.95	2.5	1.55	Not Attained	More assignments on fluid flow problems
	CO5	0.45	3.00	0.96	2.5	1.54	Not Attained	More explain design of open & closed conduit system
	CO1	0.42	3.00	0.93	2.5	1.57	Not Attained	More explain methods for analysis of structures
2110422:	CO2	0.43	3.00	0.94	2.5	1.56	Not Attained	
Theory of Structures-II	CO3	0.42	3.00	0.94	2.5	1.56	Not Attained	More assignments
	CO4	0.42	3.00	0.93	2.5	1.57	Not Attained	for structural analysis
	CO5	0.42	3.00	0.94	2.5	1.56	Not Attained	
2110423: Water Supply Engineering	CO1	2.10	3.00	2.28	2.5	0.22	Not Attained	More explain concept of water supply

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



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (Deemed to be University) NAAC Accredited with A++ Grade

# **Department of Civil Engineering**



	CO2	0.46	3.00	0.96	2.5	1.54	Not Attained	More explain the requirements for water
	CO3	0.44	3.00	0.95	2.5	1.55	Not Attained	More explain water treatment technique
	CO4	0.45	3.00	0.96	2.5	1.54	Not Attained	More assignment to analyze water supply scheme
	CO5	0.45	3.00	0.96	2.5	1.54	Not Attained	More assignments to design water supply system
	CO1	0.00	3.00	0.60	2.5	1.90	Not Attained	More explain concept of hydrology
	CO2	0.00	3.00	0.60	2.5	1.90	Not Attained	More explain the measurements of rainfall
2110424: Water Resource	CO3	0.00	3.00	0.60	2.5	1.90	Not Attained	More assignments to analyse hydrograph
Engineering	CO4	0.00	3.00	0.60	2.5	1.90	Not Attained	More assignments on irrigation project
	CO5	0.00	3.00	0.60	2.5	1.90	Not Attained	More assignments on design of irrigation system
	CO6	0.00	3.00	0.6	2.5	1.90	Not Attained	More explain planning of irrigation system
2110425:Civil Drawing Lab	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





Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
	CO 1	0.49	3.00	0.99	2.5	1.51	Not Attained	More explain waste water engineering
	CO 2	0.31	3.00	0.85	2.5	1.65	Not Attained	More explain the requirements for safe disposal of water
110621: Waste Water Engineering	CO 3	0.71	3.00	1.16	2.5	1.34	Not Attained	More explain sewage treatment technique
	CO 4	0.33	3.00	0.87	2.5	1.63	Not Attained	More assignments to analyze sewerage system
	CO 5	0.56	3.00	1.04	2.5	1.46	Not Attained	More explain the design of sewerage system
	CO 1	2.14	3.00	2.32	2.5	0.18	Not Attained	More assignments on connections
110622: S. D. D. (Steel)	CO 2	0.45	3.00	0.96	2.5	1.54	Not Attained	More assignments on design of tension members
	CO 3	0.44	3.00	0.95	2.5	1.55	Not Attained	More assignments on design of compression

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





								members
	CO 4	0.46	3.00	0.97	2.5	1.53	Not Attained	More assignments on design of flexure members
	CO 5	0.46	3.00	0.97	2.5	1.53	Not Attained	More assignments on design of plate girder & column base
	CO 1	1.78	3.00	2.02	2.5	0.48	Not Attained	More explain quantity estimation, costing & contracting
110623:	CO 2	0.36	3.00	0.88	2.5	1.62	Not Attained	More assignments to estimate area, volume & cost
Estimating Costing & Contract	CO 3	0.37	3.00	0.90	2.5	1.60	Not Attained	More assignments on rate & quantity estimation
	CO 4	0.37	3.00	0.90	2.5	1.60	Not Attained	More assignments to determine rates & value
	CO 5	0.38	3.00	0.91	2.5	1.59	Not Attained	More explain rates if item & contracts
910110: Sustainable Materials &	CO 1	2.48	3.00	2.58	2.5	-0.08	Attained	Rubrics for the level can be modified





Green Building	CO 2	2.26	3.00	2.41	2.5	0.09	Not Attained	More explain the indoor air quality
	CO 3	0.98	3.00	1.38	2.5	1.12	Not Attained	More explain the life cycle energy, BIPV
	CO 4	1.93	3.00	2.14	2.5	0.36	Not Attained	More explain the guidelines of ECBC, LEED, GRIHA
	CO 5	2.26	3.00	2.41	2.5	0.09	Not Attained	More explain the renewable energy sources in buildings
	CO 1	2.59	3.00	2.67	2.5	-0.17	Attained	Rubrics for the level can be modified
910111: Building	CO 2	1.48	3.00	1.79	2.5	0.71	Not Attained	More explain fire fighting system
Service & Maintenance	CO 3	1.77	3.00	2.01	2.5	0.49	Not Attained	More explain maintenance of building services
	CO 4	2.25	3.00	2.40	2.5	0.10	Not Attained	More explain sustainable building services plan
	CO 1	3.00	3.00	3.00	2.5	-0.50	Attained	Rubrics for the level can be modified
110624: Minor Project-II	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





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

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
110821: Internship/Rese arch Project	CO 1	3.0	3.0	3.0	2.5	-0.5	Attained	More explain different components of hyro project
	CO 2	3.0	3.0	3.0	2.5	-0.5	Attained	More explain designing hydropower plant & cross drainage works
	CO 3	3.0	3.0	3.0	2.5	-0.5	Attained	More assignments on dam analysis, energy dissipaters & cross drainage works
	CO 4	3.0	3.0	3.0	2.5	-0.5	Attained	More explain tyoes of hydraulic structures
	CO 5	3.0	3.0	3.0	2.5	-0.5	Attained	More assignments on design of hydraulic structures