

# 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 2021)

Course Code & Name	Course Outcomes	Mid Sem 1 CO Attainment % (Online)	Mid Sem 2 CO Attainment % (Online)	Direct CO Attainment %	Indirect CO Attainment %	Overall CO Attainment %	Target Attainment %	Gap in Attainment %	Status of CO Attainment	Action Taken
100020: Basic Civil Engineering & Engineering Mechanics (Civil)	CO 1	68.50	43.00	55.75	77.78	60.16	65	4.84	Not Attained	
	CO 2	72.00	72.00	72.00	79.26	73.45	65	-8.45	Attained	
	CO 3	74.50	74.50	74.50	78.15	75.23	65	-10.23	Attained	
	CO 4	87.00	49.50	68.25	79.26	70.45	65	-5.45	Attained	
	CO 5	82.25	49.25	65.75	77.04	68.01	65	-3.01	Attained	
100020: Basic Civil Engineering & Engineering Mechanics Civil - Practical	CO 1	64.00		64.00	75.10	66.22	65	-1.22	Attained	
	CO 2	64.00		64.00	70.28	65.26	65	-0.26	Attained	
	CO 3	64.00		64.00	73.90	65.98	65	-0.98	Attained	
	CO 4	64.00		64.00	72.69	65.74	65	-0.74	Attained	
	CO 5	64.00		64.00	75.10	66.22	65	-1.22	Attained	
100020: Basic Civil Engineering & Engineering Mechanics (Mechanical)	CO 1	82.00	78.00	80.00	68.31	77.66	65	-12.66	Attained	
	CO 2	88.00	85.00	86.50	66.67	82.53	65	-17.53	Attained	
	CO 3	86.00	69.00	77.50	68.31	75.66	65	-10.66	Attained	
	CO 4	87.00	77.00	82.00	66.12	78.82	65	-13.82	Attained	
	CO 5	85.00	85.00	85.00	67.21	81.44	65	-16.44	Attained	
100020: Basic Civil Engineering & Engineering Mechanics (Automobile)	CO 1	80.00	75.00	77.50	64.81	74.96	65	-9.96	Attained	
	CO 2	79.00	83.00	81.00	64.81	77.76	65	-12.76	Attained	
	CO 3	83.00	65.00	74.00	64.81	72.16	65	-7.16	Attained	
	CO 4	63.00	77.00	70.00	61.11	68.22	65	-3.22	Attained	
	CO 5	66.00	85.00	75.50	57.41	71.88	65	-6.88	Attained	

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100020: Basic Civil Engineering & Engineering Mechanics (Electrical)	CO 1	76.00	69.00	72.50	70.90	72.18	65	-7.18	Attained
	CO 2	70.00	74.00	72.00	73.54	72.31	65	-7.31	Attained
	CO 3	64.00	52.00	58.00	73.54	61.11	65	3.89	Not Attained
	CO 4	41.00	55.00	48.00	73.02	53.00	65	12.00	Not Attained
	CO 5	50.00	51.00	50.50	73.54	55.11	65	9.89	Not Attained
110211: Building Planning & Design	CO 1	96.00	88.50	92.25	82.11	90.22	65	-25.22	Attained
	CO 2	82.60	91.00	86.80	78.05	85.05	65	-20.05	Attained
	CO 3	96.25	77.10	86.68	76.42	84.62	65	-19.62	Attained
	CO 4	84.33	73.00	78.67	78.05	78.54	65	-13.54	Attained
	CO 5	85.66	90.00	87.83	76.42	85.55	65	-20.55	Attained
110402: Geotechnical Engineering	CO 1	96.00	96.25	96.13	74.56	91.81	65	-26.81	Attained
	CO 2	89.50	89.25	89.38	68.42	85.18	65	-20.18	Attained
	CO 3	93.25	94.50	93.88	68.42	88.78	65	-23.78	Attained
	CO 4	89.25	96.75	93.00	66.67	87.73	65	-22.73	Attained
	CO 5	88.50	96.00	92.25	68.86	87.57	65	-22.57	Attained
110402: Geotechnical Engineering (Practical)	CO 1	88.00		88.00	70.95	84.59	65	-19.59	Attained
	CO 2	88.00		88.00	70.00	84.40	65	-19.40	Attained
	CO 3	88.00		88.00	68.57	84.11	65	-19.11	Attained
	CO 4	88.00		88.00	68.57	84.11	65	-19.11	Attained
110403: Fluid Mechanics-I	CO 1	91.75	91.00	91.38	75.34	88.17	65	-23.17	Attained
	CO 2	96.50	82.80	89.65	73.97	86.51	65	-21.51	Attained
	CO 3	95.43	87.00	91.22	70.78	87.13	65	-22.13	Attained
	CO 4	91.17	90.00	90.59	73.52	87.17	65	-22.17	Attained
	CO 5	-	84.33	84.33	72.60	81.98	65	-16.98	Attained
	CO 6	-	81.00	81.00	72.60	79.32	65	-14.32	Attained

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110403: Fluid Mechanics-I (Practical)	CO 1	64.00	64.00	75.49	66.30	65	-1.30	Attained	
	CO 2	64.00	64.00	73.04	65.81	65	-0.81	Attained	
	CO 3	64.00	64.00	74.51	66.10	65	-1.10	Attained	
	CO 4	64.00	64.00	70.59	65.32	65	-0.32	Attained	
110404: Structural Analysis	CO 1	80.64	97.00	88.82	72.95	85.65	65	-20.65	Attained
	CO 2	80.80	98.50	89.65	71.50	86.02	65	-21.02	Attained
	CO 3	80.10	98.25	89.18	71.50	85.64	65	-20.64	Attained
	CO 4	83.19	98.50	90.85	69.57	86.59	65	-21.59	Attained
	CO 5	83.52	97.00	90.26	70.05	86.22	65	-21.22	Attained
110406: Water Resources Engineering	CO 1	93.00	93.00	76.19	89.64	65	-24.64	Attained	
	CO 2	86.00	86.00	72.86	83.37	65	-18.37	Attained	
	CO 3	91.00	91.00	71.90	87.18	65	-22.18	Attained	
	CO 4	93.00	93.00	71.90	88.78	65	-23.78	Attained	
	CO 5	85.00	85.00	74.29	82.86	65	-17.86	Attained	
	CO 6	87.00	87.00	73.81	84.36	65	-19.36	Attained	
110407: Survey Practice Lab (Practical)	CO 1	96.00	96.00	68.98	90.60	65	-25.60	Attained	
	CO 2	92.00	92.00	68.52	87.30	65	-22.30	Attained	
	CO 3	92.00	92.00	67.13	87.03	65	-22.03	Attained	
	CO 4	92.00	92.00	67.59	87.12	65	-22.12	Attained	
	CO 5	92.00	92.00	68.06	87.21	65	-22.21	Attained	
	CO 6	92.00	92.00	67.59	87.12	65	-22.12	Attained	
110602: Structural Design & Drawing II (R.C.C.)	CO 1	88.50	70.17	79.34	73.21	78.11	65	-13.11	Attained
	CO 2	98.00	72.71	85.36	73.52	82.99	65	-17.99	Attained
	CO 3	92.00	89.52	90.76	72.90	87.19	65	-22.19	Attained
	CO 4	87.00	79.53	83.27	74.14	81.44	65	-16.44	Attained

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	CO 5	92.00	85.50	88.75	72.90	85.58	65	-20.58	Attained	
110612: Solid Waste Management	CO 1	83.50	76.00	79.75	72.22	78.24	65	-13.24	Attained	
	CO 2	-	62.40	62.40	72.22	64.36	65	0.64	Not Attained	
	CO 3	89.50	61.10	75.30	72.22	74.68	65	-9.68	Attained	
	CO 4	84.20	61.40	72.80	70.37	72.31	65	-7.31	Attained	
	CO 5	82.00	61.00	71.50	68.52	70.90	65	-5.90	Attained	
110613: Construction Planning & Management	CO 1	86.00	-	86.00	72.55	83.31	65	-18.31	Attained	
	CO 2	83.69	-	83.69	75.49	82.05	65	-17.05	Attained	
	CO 3	84.31	-	84.31	71.57	81.76	65	-16.76	Attained	
	CO 4	-	76.50	76.50	71.57	75.51	65	-10.51	Attained	
	CO 5	-	75.40	75.40	71.57	74.63	65	-9.63	Attained	
110614: Railways, Airport & Tunnel Engineering	CO 1	76.43	-	76.43	80.00	77.14	65	-12.14	Attained	
	CO 2	80.83	59.70	70.27	80.00	72.21	65	-7.21	Attained	
	CO 3	79.00	68.87	73.94	80.00	75.15	65	-10.15	Attained	
	CO 4	-	80.78	80.78	80.00	80.62	65	-15.62	Attained	
	CO 5	-	94.57	94.57	73.33	90.32	65	-25.32	Attained	
100007: Disaster Management	CO 1	96.90	96.80	96.85	76.84	92.85	65	-27.85	Attained	
	CO 2	94.96	94.50	94.73	76.84	91.15	65	-26.15	Attained	
	CO 3	98.97	94.00	96.49	75.09	92.21	65	-27.21	Attained	
	CO 4	95.35	97.60	96.48	74.04	91.99	65	-26.99	Attained	
	CO 5	-	95.00	95.00	75.09	91.02	65	-26.02	Attained	
110607: Minor Project - II	CO 1	88.00		88.00	76.47	85.69	65	-20.69	Attained	
	CO 2	88.00		88.00	77.12	85.82	65	-20.82	Attained	
	CO 3	72.00		72.00	75.16	72.63	65	-7.63	Attained	
	CO 4	80.00		80.00	75.82	79.16	65	-14.16	Attained	

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	CO 5	72.00		72.00	76.80	72.96	65	-7.96	Attained	
900117: Numerical Methods in Engineering	CO 1	81.72	80.12	80.92	86.11	81.96	65	-16.96	Attained	
	CO 2	82.86	78.16	80.51	75.00	79.41	65	-14.41	Attained	
	CO 3	79.00	68.83	73.92	77.78	74.69	65	-9.69	Attained	
	CO 4	-	75.00	75.00	80.56	76.11	65	-11.11	Attained	
900118: Maintenance Management	CO 1	89.00		89.00		71.20	65	-6.20	Attained	
	CO 2	82.00		82.00		65.60	65	-0.60	Attained	
	CO 3	86.00		86.00		68.80	65	-3.80	Attained	
	CO 4	83.00		83.00		66.40	65	-1.40	Attained	