

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 2020)

Course Code & Name	CO	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 %	Action Taken
100205: Basic Civil Engineering & Mechanics (CE)	CO 1	87.0	89.0	88.0	78.4	86.1	65.0	---	
	CO 2	98.0	98.0	98.0	75.9	93.6	65.0	---	
	CO 3	97.0	98.0	97.5	75.3	93.1	65.0	---	
	CO 4	80.0	95.0	87.5	74.1	84.8	65.0	---	
	CO 5	74.0	93.0	83.5	75.3	81.9	65.0	---	
100205: Basic Civil Engineering & Mechanics (ME)	CO 1	89.5	82.0	85.8	74.1	83.4	65.0	---	
	CO 2	89.0	83.0	86.0	71.1	83.0	65.0	---	
	CO 3	90.0	87.0	88.5	72.6	85.3	65.0	---	
	CO 4	88.5	85.0	86.8	72.1	83.8	65.0	---	
	CO 5	87.5	86.0	86.8	72.6	83.9	65.0	---	
100205: Basic Civil Engineering & Mechanics (CM)	CO 1	98.0	84.1	91.0	73.1	87.4	65.0	---	
	CO 2	95.0	84.0	89.5	71.2	85.8	65.0	---	
	CO 3	97.0	89.0	93.0	66.7	87.7	65.0	---	
	CO 4	90.0	84.0	87.0	73.1	84.2	65.0	---	
	CO 5	93.0	86.0	89.5	73.1	86.2	65.0	---	
100205: Basic Civil Engineering & Mechanics (AU)	CO 1	97.0	85.0	91.0	73.1	87.4	65.0	---	
	CO 2	94.0	79.0	86.5	71.2	83.4	65.0	---	
	CO 3	96.5	82.0	89.3	66.7	84.7	65.0	---	
	CO 4	89.3	83.0	86.1	73.1	83.5	65.0	---	
	CO 5	91.8	81.0	86.4	73.1	83.7	65.0	---	
110402:	CO 1	78.0	66.0	72.0	74.3	72.5	65.0	---	Practical examples are

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

CIVIL ENGINEERING DEPARTMENT

Geotechnical Engg.	CO 2	81.0	67.0	74.0	71.4	73.5	65.0	---	provided to students for better understanding. Assignments are provided for the selection of suitable foundations.
	CO 3	80.0	66.0	73.0	72.4	72.9	65.0	---	
	CO 4	70.0	59.0	64.5	68.6	65.3	65.0	---	
	CO 5	76.0	50.0	63.0	70.5	64.5	65.0	0.50	
110403: Fluid Mechanics - I	CO 1	72.0	86.0	79.0	83.9	80.0	65.0	---	
	CO 2	81.0	87.0	84.0	78.5	82.9	65.0	---	
	CO 3	80.0	89.0	84.5	75.3	82.7	65.0	---	
	CO 4	83.0	88.0	85.5	74.2	83.2	65.0	---	
	CO 5	73.0	87.0	80.0	77.4	79.5	65.0	---	
	CO 6	79.0	87.0	83.0	74.2	81.2	65.0	---	
110404: Structural Analysis	CO 1	82.9	75.5	79.2	76.9	78.7	65.0	---	
	CO 2	85.1	74.8	79.9	73.1	78.6	65.0	---	
	CO 3	85.3	71.5	78.4	70.4	76.8	65.0	---	
	CO 4	83.4	74.9	79.1	68.5	77.0	65.0	---	
	CO 5	74.8	73.4	74.1	71.3	73.5	65.0	---	
110406: Water Resources Engg.	CO 1	68.0	62.0	65.0	75.0	67.0	65.0	---	Assignment and quiz were conducted for the particular topics. Remedial classes were conducted and extra reading material was provided.
	CO 2	69.0	65.0	67.0	72.9	68.2	65.0	---	
	CO 3	57.0	62.0	59.5	70.8	61.8	65.0	3.23	
	CO 4	61.0	57.0	59.0	71.9	61.6	65.0	3.43	
	CO 5	64.0	62.0	63.0	72.9	65.0	65.0	---	
	CO 6	59.0	57.0	58.0	74.0	61.2	65.0	3.81	
110602: SDD (Steel)	CO 1	91.3	82.0	86.6	70.8	83.5	65.0	---	Extra practice problems were given to students on design of structures as per codal provisions.
	CO 2	96.8	75.0	85.9	65.6	81.8	65.0	---	
	CO 3	89.0	52.3	70.6	74.0	71.3	65.0	---	
	CO 4	68.0	78.8	73.4	66.7	72.0	65.0	---	
	CO 5	51.0	74.5	62.8	66.7	63.5	65.0	1.47	

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

CIVIL ENGINEERING DEPARTMENT

110611 (DE - 1): Waste Water Engg	CO 1	78.0	85.0	81.5	74.4	80.1	65.0	---	
	CO 2	79.0	85.0	82.0	56.4	76.9	65.0	---	
	CO 3	81.0	86.0	83.5	66.7	80.1	65.0	---	
	CO 4	88.0	83.0	85.5	61.5	80.7	65.0	---	
	CO 5	77.0	81.0	79.0	59.0	75.0	65.0	---	
110612 (DE - 1): Solid Waste Management	CO 1	94.0	78.0	86.0	83.3	85.5	65.0	---	
	CO 2	65.0	77.0	71.0	76.7	72.1	65.0	---	
	CO 3	61.0	81.0	71.0	83.3	73.5	65.0	---	
	CO 4	97.0	87.0	92.0	80.0	89.6	65.0	---	
	CO 5	53.0	84.0	68.5	66.7	68.1	65.0	---	
110613 (DE - 1): Construction Planning & Management	CO 1	92.0	71.0	81.5	78.3	80.9	65.0	---	
	CO 2	95.0	71.0	83.0	81.2	82.6	65.0	---	
	CO 3	95.0	70.0	82.5	76.8	81.4	65.0	---	
	CO 4	96.0	67.0	81.5	84.1	82.0	65.0	---	
	CO 5	95.0	67.0	81.0	82.6	81.3	65.0	---	
100007: Disaster Management	CO 1	91.0	94.0	92.5	78.5	89.7	65.0	---	
	CO 2	95.0	96.0	95.5	77.4	91.9	65.0	---	
	CO 3	92.0	98.0	95.0	79.6	91.9	65.0	---	
	CO 4	95.0	99.0	97.0	82.8	94.2	65.0	---	
	CO 5	96.0	93.0	94.5	78.5	91.3	65.0	---	
BCEL-801: ASD - II (steel)	CO 1	57.0	62.0	59.5	78.2	63.2	65.0	1.76	Extra practice problems were given to students on design of steel structures as per codal provisions.
	CO 2	79.0	54.0	66.5	77.6	68.7	65.0	---	
	CO 3	69.0	57.0	63.0	73.3	65.1	65.0	---	
	CO 4	59.0	59.0	59.0	76.4	62.5	65.0	2.53	
	CO 5	75.0	55.0	65.0	74.5	66.9	65.0	---	
BCEL-802:	CO 1	88.0	77.0	82.5	83.3	82.7	65.0	---	

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

CIVIL ENGINEERING DEPARTMENT

Hydraulic Structure	CO 2	0.0	61.0	61.0	78.0	64.4	65.0	---		
	CO 3	76.0	72.0	74.0	78.0	74.8	65.0	---		
	CO 4	76.0	55.0	65.5	78.7	68.1	65.0	---		
	CO 5	88.0	69.0	78.5	78.7	78.5	65.0	---		
BCEL-803: Industrial Waste Treatment	CO 1	67.0	70.0	68.5	78.9	70.6	65.0	---		
	CO 2	78.0	88.0	83.0	76.2	81.6	65.0	---		
	CO 3	72.0	86.0	79.0	76.2	78.4	65.0	---		
	CO 4	73.0	87.0	80.0	79.6	79.9	65.0	---		
	CO 5	78.0	78.0	78.0	76.2	77.6	65.0	---		
BCEL-804: Building Env & Services	CO 1	59.0	69.0	64.0	82.3	67.7	65.0	---		Extra assignments were given to students to examine and evaluate buildings and services.
	CO 2	91.0	68.0	79.5	80.1	79.6	65.0	---		
	CO 3	52.0	71.0	61.5	77.3	64.7	65.0	0.34		
	CO 4	21.0	71.0	46.0	75.9	52.0	65.0	13.02		
	CO 5	58.0	72.0	65.0	77.3	67.5	65.0	---		