

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

## Department of Mechanical Engineering

### Course Outcome Attainment July-Dec 2017

Subject/Code	COs	Direct % Attainment	Indirect % Attainment	Total % Attainment	Target Level	Attained	Gap
Engineering Chemistry (100101)	CO1	52.00	45.00	50.60	60.00	NO	-9.40
	CO2	54.00	50.00	53.20	60.00	NO	-6.80
	CO3	55.00	37.00	51.40	60.00	NO	-8.60
	CO4	55.00	33.00	50.60	60.00	NO	-9.40
	CO5	55.00	41.00	52.20	60.00	NO	-7.80
	CO6	55.00	45.00	53.00	60.00	NO	-7.00
Engineering Mathematics I (100102)	CO1	60.00	70.00	62.00	60.00	YES	
	CO2	41.00	65.00	45.80	60.00	NO	-14.20
	CO3	70.00	73.00	70.60	60.00	YES	
	CO4	29.00	69.00	37.00	60.00	NO	-23.00
	CO5	39.00	70.00	45.20	60.00	NO	-14.80
	CO6	60.00	73.00	62.60	60.00	YES	
Technical English (100103)	CO1	60.00	70.00	62.00	60.00	YES	
	CO2	41.00	65.00	45.80	60.00	NO	-14.20
	CO3	70.00	73.00	70.60	60.00	YES	
	CO4	29.00	69.00	37.00	60.00	NO	-23.00
	CO5	39.00	70.00	45.20	60.00	NO	-14.80
	CO6	60.00	73.00	62.60	60.00	YES	
Basic Electrical & Electronics Engineering(100104)	CO1	58.20	68.03	60.17	60.00	YES	
	CO2	62.30	64.28	62.70	60.00	YES	
	CO3	63.40	58.24	62.37	60.00	YES	
	CO4	64.80	67.71	65.38	60.00	YES	
	CO5	63.60	58.75	62.63	60.00	YES	
	CO6	52.20	53.86	52.53	60.00	NO	-7.47
Engineering Graphics(100105)	CO1	81.00	72.72	79.34	60.00	YES	
	CO2	81.00	70.53	78.91	60.00	YES	
	CO3	82.00	61.15	77.83	60.00	YES	
	CO4	82.00	68.32	79.26	60.00	YES	
	CO5	82.00	69.14	79.43	60.00	YES	
	CO6	76.00	62.53	73.31	60.00	YES	
Manufacturing Practices-(P) (100106)	CO1	58.20	68.03	60.17	60.00	YES	
	CO2	62.30	64.28	62.70	60.00	YES	
	CO3	63.40	58.24	62.37	60.00	YES	

	CO4	64.80	67.71	65.38	60.00	YES	
	CO5	63.60	58.75	62.63	60.00	YES	
	CO6	52.20	53.86	52.53	60.00	NO	-7.47
Engineering Graphics Lab (100105)	CO1	96.69	70.53	91.46	60.00	YES	
	CO2	96.69	61.15	89.58	60.00	YES	
	CO3	96.69	68.32	91.02	60.00	YES	
	CO4	96.69	69.14	91.18	60.00	YES	
	CO5	96.69	62.53	89.86	60.00	YES	
Mathematics-III (BMEL301)	CO1	54.00	60.00	55.20	60.00	NO	-4.80
	CO2	61.00	71.00	63.00	60.00	YES	
	CO3	51.00	76.00	56.00	60.00	NO	-4.00
	CO4	41.00	75.00	47.80	60.00	NO	-12.20
	CO5	23.00	80.00	34.40	60.00	NO	-25.60
	CO6	23.00	60.00	30.40	60.00	NO	-29.60
Mechanics of Materials-I (BMEL302)	CO1	87.00	59.99	81.60	60.00	YES	
	CO2	58.00	60.01	58.40	60.00	NO	-1.60
	CO3	55.00	60.01	56.00	60.00	NO	-4.00
	CO4	42.00	57.78	45.16	60.00	NO	-14.84
	CO5	45.00	55.55	47.11	60.00	NO	-12.89
	CO6	49.00	53.33	49.87	60.00	NO	-10.13
Manufacturing Process (BMEL303)	CO1	47.00	68.33	51.27	60.00	NO	-8.73
	CO2	60.00	63.33	60.67	60.00	YES	
	CO3	79.00	61.67	75.53	60.00	YES	
	CO4	75.00	66.67	73.33	60.00	YES	
	CO5	79.00	63.33	75.87	60.00	YES	
	CO6	48.00	71.67	52.73	60.00	NO	-7.27
Thermodynamics(BMEL304)	CO1	89.00	60.00	83.20	60.00	YES	
	CO2	84.00	50.00	77.20	60.00	YES	
	CO3	74.00	53.33	69.87	60.00	YES	
	CO4	60.00	50.00	58.00	60.00	NO	-2.00
	CO5	49.00	53.33	49.87	60.00	NO	-10.13
	CO6	53.00	53.33	53.07	60.00	NO	-6.93
Material Science (BMEL305)	CO1	84.00	51.85	77.57	60.00	YES	
	CO2	61.00	55.55	59.91	60.00	NO	-0.09
	CO3	67.00	51.85	63.97	60.00	YES	
	CO4	54.00	51.85	53.57	60.00	NO	-6.43
	CO5	52.00	48.14	51.23	60.00	NO	-8.77
	CO6	51.00	51.90	51.18	60.00	NO	-8.82
Mechanics of Materials-I Lab (BMEL302)	CO1	96.55	59.99	89.24	60.00	YES	
	CO2	96.55	60.01	89.24	60.00	YES	
	CO3	96.55	60.01	89.24	60.00	YES	
	CO4	96.55	57.78	88.80	60.00	YES	
	CO5	96.55	55.55	88.35	60.00	YES	

	CO6	96.55	53.33	87.91	60.00	YES	
Manufacturing Process Lab (BMEL303)	CO1	100.00	68.33	93.67	60.00	YES	
	CO2	100.00	63.33	92.67	60.00	YES	
	CO3	100.00	61.67	92.33	60.00	YES	
	CO4	100.00	66.67	93.33	60.00	YES	
	CO5	100.00	63.33	92.67	60.00	YES	
Thermodynamics Lab (BMEL304)	CO1	100.00	60.00	92.00	60.00	YES	
	CO2	100.00	50.00	90.00	60.00	YES	
	CO3	100.00	53.33	90.67	60.00	YES	
	CO4	100.00	50.00	90.00	60.00	YES	
	CO5	100.00	53.33	90.67	60.00	YES	
Metrology, Measurement and Control(BMEL501)	CO1	87.00	63.49	82.30	60.00	YES	
	CO2	58.00	61.11	58.62	60.00	NO	-1.38
	CO3	55.00	53.17	54.63	60.00	NO	-5.37
	CO4	42.00	62.70	46.14	60.00	NO	-13.86
	CO5	45.00	58.74	47.75	60.00	NO	-12.25
	CO6	49.00	57.93	50.79	60.00	NO	-9.21
Aerospace propulsion (BMEL501)	CO1	69.00	60.00	67.20	60.00	NO	7.20
	CO2	63.00	64.44	63.29	60.00	YES	
	CO3	58.00	62.22	58.84	60.00	NO	-1.16
	CO4	52.00	71.11	55.82	60.00	NO	-4.18
	CO5	51.00	65.18	53.84	60.00	NO	-6.16
	CO6	53.00	64.44	55.29	60.00	NO	-4.71
Advance Mechanics of Materials (BMEL503)	CO1	71.00	62.41	69.28	60.00	YES	
	CO2	61.00	60.28	60.86	60.00	YES	
	CO3	73.00	61.70	70.74	60.00	YES	
	CO4	68.00	58.16	66.03	60.00	YES	
	CO5	64.00	60.28	63.26	60.00	YES	
	CO6	54.00	56.03	54.41	60.00	NO	-5.59
Industrial Engineering (BMEL504)	CO1	72.00	68.11	71.22	60.00	YES	
	CO2	70.00	62.33	68.47	60.00	YES	
	CO3	62.00	62.32	62.06	60.00	YES	
	CO4	58.00	61.59	58.72	60.00	NO	-1.28
	CO5	51.00	64.49	53.70	60.00	NO	-6.30
	CO6	56.00	64.49	57.70	60.00	NO	-2.30
Internal Combustion Engine (BMEL505)	CO1	44.00	70.36	49.27	60.00	NO	-10.73
	CO2	40.00	66.67	45.33	60.00	NO	-14.67
	CO3	51.00	60.74	52.95	60.00	NO	-7.05
	CO4	50.00	60.74	52.15	60.00	NO	-7.85
	CO5	41.00	65.92	45.98	60.00	NO	-14.02
	CO6	51.00	74.08	55.62	60.00	NO	-4.38
Machine Design-II(BMEL506)	CO1	80.00	65.89	77.18	60.00	YES	
	CO2	89.00	67.44	84.69	60.00	YES	

	CO3	61.00	62.79	61.36	60.00	YES	
	CO4	84.00	60.47	79.29	60.00	YES	
	CO5	66.00	62.02	65.20	60.00	YES	
	CO6	58.00	67.44	59.89	60.00	NO	-0.11
Advance Mechanics of Materials Lab (BMEL503)	CO1	98.71	62.41	91.45	60.00	YES	
	CO2	98.71	60.28	91.02	60.00	YES	
	CO3	98.71	61.70	91.31	60.00	YES	
	CO4	98.71	58.16	90.60	60.00	YES	
	CO5	98.71	60.28	91.02	60.00	YES	
Internal Combustion Engine Lab (BMEL505)	CO1	98.71	70.36	93.04	60.00	YES	
	CO2	98.71	66.67	92.30	60.00	YES	
	CO3	98.71	60.74	91.12	60.00	YES	
	CO4	98.71	60.74	91.12	60.00	YES	
	CO5	98.71	65.92	92.15	60.00	YES	
Machine Design-II Lab (BMEL506)	CO1	98.71	65.89	92.15	60.00	YES	
	CO2	98.71	67.44	92.46	60.00	YES	
	CO3	98.71	62.79	91.53	60.00	YES	
	CO4	98.71	60.47	91.06	60.00	YES	
	CO5	98.71	62.02	91.37	60.00	YES	
	CO6	98.71	67.44	92.46	60.00	YES	
Machine Design-III (BMEL701)	CO1	54.00	56.40	54.48	60.00	NO	-5.52
	CO2	55.00	53.85	54.77	60.00	NO	-5.23
	CO3	59.00	51.28	57.46	60.00	NO	-2.54
	CO4	60.00	52.56	58.51	60.00	NO	-1.49
	CO5	57.00	60.26	57.65	60.00	NO	-2.35
	CO6	63.00	58.97	62.19	60.00	YES	
Turbo Machinery (BMEL702)	CO1	82.00	70.63	79.73	60.00	YES	
	CO2	68.00	81.75	70.75	60.00	YES	
	CO3	43.00	69.84	48.37	60.00	NO	-11.63
	CO4	47.00	76.19	52.84	60.00	NO	-7.16
	CO5	57.00	64.29	58.46	60.00	NO	-1.54
	CO6	51.00	60.32	52.86	60.00	NO	-7.14
APT&CAM (BMEL703)	CO1	52.00	53.97	52.39	60.00	NO	-7.61
	CO2	43.00	50.79	44.56	60.00	NO	-15.44
	CO3	59.00	57.15	58.63	60.00	NO	-1.37
	CO4	63.00	53.97	61.19	60.00	YES	
	CO5	57.00	63.49	58.30	60.00	NO	-1.70
	CO6	49.00	47.61	48.72	60.00	NO	-11.28
Heat and Mass Transfer (BMEL704)	CO1	88.00	67.86	83.97	60.00	YES	
	CO2	79.00	69.04	77.01	60.00	YES	
	CO3	48.00	66.67	51.73	60.00	NO	-8.27
	CO4	49.00	59.53	51.11	60.00	NO	-8.89
	CO5	49.00	65.47	52.29	60.00	NO	-7.71

	CO6	54.00	57.15	54.63	60.00	NO	-5.37
Non-Conventional Energy Sources (BMEL705)	CO1	56.00	60.00	56.80	60.00	NO	-3.20
	CO2	55.00	64.00	56.80	60.00	NO	-3.20
	CO3	72.00	64.00	70.40	60.00	YES	
	CO4	45.00	62.67	48.53	60.00	NO	-11.47
	CO5	73.00	60.00	70.40	60.00	YES	
	CO6	62.00	58.67	61.33	60.00	YES	
Machine Design-III Lab (BMEL701)	CO1	100.00	56.40	91.28	60.00	YES	
	CO2	100.00	53.85	90.77	60.00	YES	
	CO3	100.00	51.28	90.26	60.00	YES	
	CO4	100.00	52.56	90.51	60.00	YES	
	CO5	100.00	60.26	92.05	60.00	YES	
	CO6	100.00	58.97	91.79	60.00	YES	
Turbo Machinery Lab (BMEL702)	CO1	100.00	70.63	94.13	60.00	YES	
	CO2	100.00	81.75	96.35	60.00	YES	
	CO3	100.00	69.84	93.97	60.00	YES	
	CO4	100.00	76.19	95.24	60.00	YES	
	CO5	100.00	64.29	92.86	60.00	YES	
Heat and Mass Transfer Lab (BMEL704)	CO1	100.00	67.86	93.57	60.00	YES	
	CO2	100.00	69.04	93.81	60.00	YES	
	CO3	100.00	66.67	93.33	60.00	YES	
	CO4	100.00	59.53	91.91	60.00	YES	
	CO5	100.00	65.47	93.09	60.00	YES	
	CO6	100.00	57.15	91.43	60.00	YES	

