

B.E. in Mechanical Engineering
Scheme of Teaching and Examinations 2025

Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2025-26)

III SEMESTER

Sl. No.	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)		Teaching & Learning Scheme				Examination				Credits	
						CI		LI	#TW & SL	# TH/S	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	ASC	1BMATM301	Transforms and Statistics	Mathematics Department		42	28	0	50	120	3	50	50	100	4
2	IPCC	1BME302	Materials Science and Metallurgy	Mechanical Engineering		42	0	28	50	120	3	50	50	100	4
3	PCC	1BME303	Basic Thermodynamics	Mechanical Engineering		42	0	0	48	90	3	50	50	100	3
4	PCC	1BME304	Mechanics of Materials	Mechanical Engineering		42	0	0	48	90	3	50	50	100	3
5	PCC	1BME305	Manufacturing Technology - I	Mechanical Engineering		42	0	0	48	90	3	50	50	100	3
6	PCCL	1BMEL306	Computer Aided Machine Drawing Lab	Mechanical Engineering		0	0	56	4	60	2	50	50	100	2
7	AEC	1BMEL307x	Ability Enhancement Course Laboratory	Mechanical Engineering		0	0	28	2	30	2	50	50	100	1
8	SDC	1BCP308	Community Project (Project-Based Learning) / Societal Project	Mechanical Engineering		0	0	0	30	30	2	50	50	100	1
9	NCMC	1BNSS309	National Service Scheme (NSS)	Campus	NSS coordinator	0	0	0	28	28	--	100	---	100	PP
		1BPE309	Physical Education (PE) (Sports and Athletics)												
		1BYOG309	Yoga												
		1BMUK309	Music												
Total												500	400	900	21
10	NCMC	1BMATDIP310	Mathematics course for Lateral Entry Students	Mathematics Department		14	0	0	14	28	3	100	---	100	PP
Total										686		600	400	1000	21

TH/S- Total Hours per Semester, TW & SL- Term Work & Self Learning

Ability Enhancement Course (Laboratory) 1BMEL307x			
1BMEL307A	MATLAB for Engineering Computation	1BMEL307C	Spread Sheet for Engineers
1BMEL307B	Virtual Reality	1BMEL307D	Prompt Engineering

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IV SEMESTER

Sl. No.	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)		Teaching & Learning Scheme					Examination			Credits	
						CI		LI	#TW & SL	# TH/S	Duration in hours	CIE Marks	SEE Marks		Total Marks
						L	T	P							
1	ASC	1BMATM401	Complex Analysis and Probability Distributions	Mathematics Department		42	0	0	34	90	3	50	50	100	3
2	IPCC	1BME402	Manufacturing Technology – II	Mechanical Engineering		42	0	28	50	120	3	50	50	100	4
3	PCC	1BME403	Applied Thermodynamics	Mechanical Engineering		42	28	0	50	120	3	50	50	100	4
4	PCC	1BME404	Fluid Mechanics	Mechanical Engineering		42	0	0	48	90	3	50	50	100	3
5	PCCL	1BMEL405	Mechanical Measurements and Metrology Lab	Mechanical Engineering		0	0	28	02	30	2	50	50	100	1
6	AEC	1BMEL406x	Ability Enhancement Course Laboratory	Mechanical Engineering		0	0	28	02	30	2	50	50	100	1
7	BSC	1BME407	Biology for Engineers	Mechanical Engineering		28	0	0	32	60	3	50	50	100	2
8	SDC	1BEP408	Environmental Science Project	Mechanical Engineering		0	0	0	30	30	3	50	50	100	1
9	PCC	1BME409	Kinematics of Machines	Mechanical Engineering		42	0	0	48	90	3	50	50	100	3
10	NCCMC	1BNSK409	National Service Scheme (NSS)	Campus	NSS coordinator	0	0	0	28	28	-	100	--	100	PP
		1BPEK409	Physical Education (PE) (Sports and Athletics)												
		1BYOK409	Yoga												
		1BMUS409	Music												
Total												550	450	1000	22
11	NCCMC	1BMATDIP410	Mathematics course for Lateral Entry Students	TD/PSB -Maths Dept		14	0	0	14	28	--	100	--	100	PP
Total										688		650	450	1100	22

Ability Enhancement Course (Laboratory) 1BMEL406x

1BMEL406A	Machine Learning using Python	1BMEL406C	Simulation of Kinematic Systems
1BMEL406B	PLC and Automation	1BMEL406D	Surface Modelling