

Revised Choice Based Credit System (Revised CBCS) Scheme of University Curriculum

I Semester B.Tech (Mechanical Engineering)														
Sr NO	Subject	Teaching Scheme				Examination Scheme								
		Hours per				Theory					Practical			
			wee k											
		L	T	P	No. of Credits	Duratio n of Paper (Hrs.)	Max. Marks University Assessment	Max. Marks College Assessm ent	Total Marks	Min. Passing Marks	Max. Marks Universi ty Assessm ent	Max. Mark s Colle ge Asses ment	Total Mark s	Min. Passing Marks
1	Mathematics -I	3	1	-	4	3	70	30	100	45	-	-	-	-
2	Applied Physics	3	1	-	4	3	70	30	100	45	-	-	-	-
3	Engineering Graphics	1	-	-	1	2	35	15	50	23	-	-	-	-
4	Energy & Environment	3	-	-	3	3	35	15	50	23	-	-	-	-
5	Communication & Aptitude skill	2	-	-	2	-	35	15	50	23	-	-	-	-
6	Basic of civil & mechanical	4	-	-	Audit (0)	-	-	50	50	-	-	-	-	-
7	Applied Physics Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
8	Engineering Graphics Lab	-	-	4	2	-	-	-	-	-	25	25	50	25
9	Energy & Environment Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
10	Communication Skill lab	-	-	2	1	-	-	-	-	-	25	25	50	25
11	Induction Program	Three Weeks			-	-	-	-	-	-	-	-	-	-
Total		16	02	10	-	-	245	155	400	-	100	100	200	-

Semester Total		28		19		Marks 600								
II Semester B.Tech (Mechanical Engineering)														
Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per				Theory						Practical		
			week											
		L	T	P	No. of Credits	Duration of Paper (Hrs.)	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks
1	Mathematics - II	3	1	-	4	3	70	30	100	45	-	-	-	-
2	Applied Chemistry	3	1	-	4	3	70	30	100	45	-	-	-	-
3	Advanced Engineering Material	3	-	-	3	2	35	15	50	23	-	-	-	-
4	Engineering Mechanics	2	-	-	2	2	35	15	50	23	-	-	-	-
5	Basic Electrical Engineering	2	-	-	2	2	35	15	50	23	-	-	-	-
6	Computational Skill	2	-	-	2	2	35	15	50	23	-	-	-	-
7	Applied Chemistry lab	-	-	2	1	-	-	-	-	-	25	25	50	25
8	Advanced Engineering Material lab	-	-	2	1	-	-	-	-	-	25	25	50	25
9	Workshop Practices	-	-	4	2	-	-	-	-	-	25	25	50	25
10	Computational Skill lab	-	-	2	1	-	-	-	-	-	25	25	50	25
11	Indian Culture & Constitution	2	-	-	Audit (0)	-	-	-	-	-	-	-	-	-
Total		17	02	10	-	-	280	120	400	-	100	100	200	-
Semester Total		29			22	Marks 600								

III Semester B.Tech (Mechanical Engineering)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per			Duration of Paper (Hrs.)	Theory					Practical			
		L	T	P		Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Duration of Paper (Hrs.)
BEME301T	Applied Mathematics - III	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME302T	Manufacturing Process	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME302P	Manufacturing Process Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME303T	Fluid Mechanics	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME304T	Kinematics of Machines	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME305P	Machine Drawing & Solid Modelling	-	01	02	02	-	-	-	-	-	50	50	100	50
BEME306T	Material Science & Engineering	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME307P	Skill Development (Basics of Computer Aided Drafting)	-	-	02	01	-	-	-	-	-	50	-	50	25
BEME308P	Sports/ Yoga/NSS/NCC	-	-	02	Audit (o)	College Assessment in Grades O, A, B, C								
Total		15	01	08	-	-	350	150	500	-	125	75	200	-
Semester Total		24			19	Marks 700								

IV Semester B.Tech (Mechanical Engineering)									
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Subject Code	Subject	Teaching Scheme			Examination Scheme									
		Hours per			Theory						Practical			
		week												
		L	T	P	No. of Credits	Duration of Paper	Max. Marks University	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University	Max. Marks College	Total Marks	Min. P

						(Hrs.)	ity Assess ment				Assessmen t	e Assess ment		as si ng M ar ks
BEME401T	Machining Processes	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME401P	Machining Processes Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME402T	Hydraulic Machine	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME402P	Fluid Mechanics & Hydraulic Machine	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME403T	Mechanics Of Material	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME403P	Material Testing Lab	-	-	02	01	01	-	-	-	-	25	25	50	25
BEME404T	Engineering Thermodynamics	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME405P	Computer Programming	-	01	02	02	-	-	-	-	-	25	25	50	25
BEME406T	Professional Ethics	03	-	-	03	02	70	30	100	45	-	-	-	-
BEME407P	Skill Development	-	-	02	01	-	-	-	-	-	-	50	50	25
						College Assessment in Grades O, A, B, C								
Total		15	01	10	-	-	350	150	500	-	100	159	250	-
Semester Total		26			21	Marks 750								
V Semester B.Tech (Mechanical Engineering)														
Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per				Theory					Practical			
			week											
		L	T	P	No. of Credits	Dura tion of Pape r (Hrs.)	Max. Marks Univer sity Assess ment	Max. Marks College Assessment	Total Mark s	Min. Passing Marks	Max. Marks Univer sity Assess ment	Max. Marks College Assessm ent	Total Mar ks	Min. Passi ng Mark s

BEME501T	Heat Transfer	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME501p	Heat Transfer Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME502T	Energy Conversion - I	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME503T	Design of Machine Element	03	01	-	04	03	70	30	100	45	-	-	-	-
BEME504T	Industrial Economics and Management	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME505T	Mechanical Measurement & Metrology	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME505P	Mechanical Measurement & Metrology Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME506P	Industrial Visit	-	-	02	01	-	-	-	-	-	-	50	50	25
BEME507P	Performing Art	-	-	02	Audit (o)	College Assessment in Grades O, A, B, C								
Total		15	01	08	-	-	350	150	500	-	50	100	150	-
Semester Total		24			19	Marks 650								

VI Semester B.Tech (Mechanical Engineering)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per			No. of Credits	Theory					Practical			
			week											
		L	T	P		Duration of Paper (Hrs.)	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks
BEME601T	Automation in Production	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME601p	Automation in Production Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME602T	Energy Conversion -II	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME602P	Energy Conversion Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME603T	Dynamics of Machines	03	-	-	03	03	70	30	100	45	-	-	-	-

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	Enhancement													
Total		12	01	10		-	280	120	400	-	25	175	200	-
Semester Total		23			20	Marks 600								
VIII Semester B.Tech (Mechanical Engineering)														
Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per				Theory						Practical		
			week											
		L	T	P	No. of Credits	Duration of Paper (Hrs.)	Max. Marks University	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks
BEME801T	Industrial Engineering	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME802T	Elective-IV	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME802P	Elective-IV Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME803T	Elective -V	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME804T	Elective -VI	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME805P	Project Phase -II	-	-	12	06	-	-	-	-	-	100	100	200	25
Total		12	0	14	-	-	280	120	400	-	125	125	250	-
Semester Total		26			19	Marks 650								

VI Semester		
Elective I (BEME604T)		
BEME604T: Operation Research	BEME604T: Production Planning & Control	BEME604T: Tool Design
BEME604T: Renewable Energy Source		
Elective II (BEME605T)		
BEME605T: Advanced Manufacturing	BEME605T: power Plant Engineering	BEME605T: Supply Chain Management

Technique		
BEME605T: Introduction to Artificial Intelligence		
Open Elective I (BEME 606T)		
BEME 606T: Entrepreneurship Development	BEME 606T: Automobile Engineering	BEME 606T: Project Evaluation & Management
BEME 606T: Operation Research Technique	BEME606T: Industrial Safety & Environment	
VII Semester		
Elective III (BEME701T)		
BEME701T:Mechatronics	BEME701T: Computer Aided Design	BEME701T: Advancement in Automobile Engineering
BEME701T4: Computational Fluid Dynamics		
Open Elective II (BEM 703T)		
BEME703T: Introduction to electric Vehicle	BEME703T: Waste Management	BEME703T: Finance & Cost Management
BEME703T: Industrial Robotics	BEME703T:Introduction to Renewable Energy Resource	
VIII Semester		
Elective IV (BEME802T)		
BEME802T: Finite Element Method	BEME8021T: Computer Integrated Manufacturing	BEME802T: Refrigeration & Air Conditioning
BEME802T: CNC & Robotics		
Elective V (BEME803T)		
BEME803T: Heating Ventilation & Air Conditioning	BEME803T: Electric & Hybrid Vehicle	BEME803T: Design Of Material Handling System
BEME803T: Total Quality Management		
Elective VI (BEM 804T)		
BEME804T: Industrial IOT	BEME804T: Additive Manufacturing	BEME804T: Energy Conservation & Management
BEME804T: Green & Sustainable Manufacturing		

