

Choice Based Credit System (CBCS) Scheme of University Curriculum

I Semester B.Tech (Mechanical Engineering)														
Sr NO	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 Assessm ent	Total Marks	Min. Passing Marks	Max. Marks Universi ty Assessm ent	Max. Mark s Colle ge Asses sment	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	-	-	2	1	-	-	-	-	-	25	25	50	25

	Engineering Material lab													
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				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	Duration of Paper (Hrs.)
BEME301T	Applied Mathematics - III	03	01	-	04	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	Engineering Thermodynamics	03	01	-	04	03	70	30	100	45	-	-	-	-
BEME304T	Kinematics of	03	01	-	04	03	70	30	100	45	-	-	-	-

	Machines													
BEME305P	Machine Drawing & Solid Modelling	-	01	02	02	-	-	-	-	-	50	50	100	50
BEME306P	Computer Programming	-	01	02	02	-	-	-	-	-	50	50	100	50
BEME307P	Sports/ Yoga/NSS/NCC	-	-	03	Audit (0)	College Assessment in Grades O, A, B, C								
Total		12	05	09	-	-	280	120	400	-	125	125	250	-
Semester Total		26			20	Marks 650								
IV 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
BEME401T	Machining Processes	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME401p	Machining Processes Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME402T	Fluid Mechanics & Hydraulic Machine	03	01	-	04	03	70	30	100	45	-	-	-	-

BEME402P	Fluid Mechanics & Hydraulic Machine	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME403T	Material Science & Engineering	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME404P	Mechanics Of Material	03	01	-	04	03	70	30	100	45	-	-	-	-
BEME404P	Material Testing Lab	-	-	02	02	01	-	-	-	-	25	25	50	25
BEME405T	Professional Ethics	03	-	-	03	02	70	30	100	45	-	-	-	-
BEME406P	Sports/ Yoga/NSS/NCC	-	-	03	Audit (0)	College Assessment in Grades O, A, B, C								
Total		15	02	09	-	-	350	150	500	-	75	75	150	-
Semester Total		26			20	Marks 650								
V 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
BEME501T	Heat Transfer	03	01	-	04	03	70	30	100	45	-	-	-	-
BEME501p	Heat Transfer	-	-	02	01	-	-	-	-	-	25	25	50	25

	Lab													
BEME502 T	Energy Conversion - I	03	01	-	04	03	70	30	100	45	-	-	-	-
BEME503 T	Design of Machine Element	03	01	-	04	03	70	30	100	45	-	-	-	-
BEME503 P	Design of Machine Element Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME504 T	Industrial Economics and Management	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME505 T	Open Elective -I	-	-	02	01	03	70	30	100	45	-	-	-	-
BEME506P	Industrial Visit	03	-	-	03	-	-	-	-	-	-	50	50	25
BEME507 P	Performing Art	-	-	03	Audit (0)	College Assessment in Grades O, A, B, C								
Total		15	03	09	-	-	350	150	500	-	50	100	150	-
Semester Total		27			21	Marks 650								
VI Semester B.Tech (Mechanical Engineering)														
Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per				Theory					Practical			
			wee k											
		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 Universi ty Assessm ent	Max. Marks College Assess ment	Total Mar ks	Min. Passing Marks

BEME601T	Automation in Production	03	01	-	04	03	70	30	100	45	-	-	-	-
BEME601p	Automation in Production Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME602T	Energy Conversion -II	03	01	-	04	03	70	30	100	45	-	-	-	-
BEME602P	Energy Conversion Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME603T	Dynamics of Machines	03	01	-	04	03	70	30	100	45	-	-	-	-
BEME603P	Dynamics of Machines Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME604T	Elective -I	03	-	-	03	03	70	30	100	45	-	-	-	25
BEME605T	Elective -II	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME606P	Skill Development	-	-	4	2	-	-	-	-	-	-	50	50	25
BEME607P	Summer Internship	During Summer Vacation			Audit (0)	-	-	-	-	-	-	-	-	-
BEME608P	Environment Science	-	-	02	Audit (0)	College Assessment in Grades O, A, B, C								
Total		15	03	13	-	-	350	150	500	-	75	125	150	-
Semester Total		31			23	Marks 700								
VII 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
BEME701T	Elective- III	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME702T	Elective- IV	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME702P	Elective- IV Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME703T	Open Elective - II	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME704T	Open Elective - III	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME705P	Project Phase -I	-	-	12	06	-	-	-	-	-	-	50	50	25
BEME706T	Self-Development	-	-	02	Audit (0)	College Assessment in Grades O, A, B, C								
Total		12	0	16	-	-	180	120	400	-	25	75	100	-
Semester Total		28			19	Marks 500								
VIII Semester B.Tech (Mechanical Engineering)														
Subject Code	Subject	Teaching Scheme			Examination Scheme									
		Hours per			Theory					Practical				

		week			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
		L	T	P										
BEME801T	Elective- V	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME801P	Elective- V Lab	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME802T	Elective- VI	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME803T	Open Elective - IV	03	-	-	03	03	70	30	100	45	-	-	-	-
BEME804P	Project Phase - II	-	-	12	06	-	-	-	-	-	100	100	200	25
BEME805P	Self-Development	-	-	02	Audit (0)	College Assessment in Grades O, A, B, C								
Total		09	0	16	-	-	210	90	300	-	125	125	250	-
Semester Total		25			16	Marks 500								

V semester		
Open Elective I (BEM 505T):		
BEME505T: Organizational Entrepreneurship Behaviour & Development	BEME505T: Automobile Engineering	BEME505T: Project Evaluation & Management

VI Semester		
Elective I (BEME604T):		
BEME604T: Mechanical Vibration	BEME604T: Synthesis of Mechanism	BEME604T: Operation Research
BEME604T: Production Planning & Control	BEME604T: Convective Heat Transfer	BEME604T: Power Plant Engineering
Elective II (BEME605T):		
BEME605T: Tribology	BEME605T: Tool Design	BEME605T: Advanced Manufacturing Technique
BEME605T: CNC & Robotics	BEME605T: Design of Heat Exchanger	BEME605T: Advanced I C Engine
VII Semester		
Elective III (BEME701T)		
BEME701T: Design Of transmission System	BEME701T: Design of material Handling System	BEME701T: Total Quality Management
BEME701T: Composite Material	BEME6701T :Solar Energy Utilisation	BEME701T: Automobile Engineering
Elective IV (BEME702T)		
BEME702T: Computer Aided Design	BEME702T: Mechanical Measurement & Metrology	BEME702T: Mechatronics
BEME702T: Hydraulics & Pneumatics		
Open Elective II (BEM 703T)		
BEME703T: Industrial Safety & Environment	BEME703T: Pollution & it's Control	BEME703T: Finance & cost Management
Open Elective III (BEM 704T)		
BEME704T: Design Of Experiments	BEME704T: Fuel Cell Technology	BEME704T: Instrumentation & Control
VIII Semester		
Elective V (BEME801T)		
BEME801T: Finite Element Method	BEME801T: Computer Integrated Manufacturing	BEME801T: Refrigeration & Air Conditioning
BEME801T: Additive Manufacturing		
Elective VI (BEME802T)		
BEME802T: Design Optimization	BEME802T: Stress Analysis	BEME802T: Industrial Engineering
BEME802T: Green & Sustainable Manufacturing	BEME802T: Energy Conservation & Management	BEME802T: Computational Fluid Dynamics
Open Elective IV (BEM 803T)		
BEME803T: Industrial Robotics	BEME803T: Renewable Energy Resource	BEME803T: Waste Management

