

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
B.Tech MECHANICAL ENGINEERING  
CURRICULUM VS PEO MAPPING

Sl. No	Semester	Subject Code	Subject Name	Theory	Practical	PEO1	PEO2	PEO3	PEO4	PEO5
1	I	BEN101	English-I	√					X	
2		BMA101	Mathematics –I	√		X				
3		BPH 101	Engineering Physics – I	√		X				
4		BCH101	Engineering Chemistry – I	√		X				
5		BCS101	Fundamentals of Computing and Programming	√		X				
6		BSS101	Personality Development	√					X	X
7		BBT 102	Biology for Engineers	√					X	
8		BCE101	Basic Civil Engineering	√		X				
9		BME101	Engineering Graphics-E	√		X	X			
10		BCM1L1	Basic Civil and Mechanical Engineering Practices		√	X	X			
11		BPC1L1	Physics and Chemistry Laboratory		√	X				
12		BSSIL4	NCC		√				X	X
13		BSSIL5	NSS		√				X	X
14		BSSIL6	NSO		√				X	X
15	II	BEN 201	English-II	√					X	
16		BMA201	Mathematics- II	√		X				
17		BPH 201	Engineering Physics – II	√		X				
18		BCH201	Engineering Chemistry – II	√		X				

19		BFR201	French	√						X	
20		BGM201	German	√						X	
21		BJP201	Japanese	√						X	
22		BKR201	Korean	√						X	
23		BCN201	Chinese	√						X	
24		BTM201	Tamil	√						X	
25		BME202	Engineering Mechanics	√		X	X				
26		BEE201	Basic Electrical and Electronics Engineering	√		X					
27		BCS2L2	Computer Practices Lab		√	X					
28		BEE2L1	Basic Electrical and Electronics Engineering Practices		√	X					
29		BPC2L1	Physics and Chemistry Laboratory		√	X					
30		BSS2L7	Yoga		√			X	X	X	
31	III	BMA301	Mathematics III	√		X					
32		BME301	Kinematics of Machines	√		X	X	X			
33		BME302	Thermodynamics	√		X	X	X			
34		BME303	Mechanics of Solids	√		X	X	X			
35		BME304	Fluid Mechanics and Machinery	√		X	X	X			
36		BME305	Manufacturing Technology –I	√		X	X	X			
37		BME3L1	Machine Drawing		√	X	X	X			
38		BCE3L3	Fluid Mechanics, Machinery and Strength of Materials Lab		√	X	X	X			
39	IV	BMA401	Numerical Methods	√		X					

40	BME401	Dynamics of Machines	√		X	X	X		
41	BME402	Thermal Engineering I	√		X	X	X		
42	BME403	Industrial Metallurgy	√		X	X	X		
43	BME404	Engineering Metrology and Instrumentation	√		X	X	X		
44	BCE406	Environmental Studies	√						X
45	BME4L1	Metrology and Metallurgy Lab		√	X	X	X		
46	BME4L2	Manufacturing Technology Lab-I		√	X	X	X		
47	BME4L3	Technical Seminar-I		√		X	X	X	
48	V	BME501	Machine Design I	√		X	X	X	
49		BME502	Thermal Engineering II	√		X	X	X	
50		BME503	Fluid Power Systems	√		X	X	X	
51		BME504	Automobile Engineering	√		X	X	X	
52		BME505	Manufacturing Technology –II	√		X	X	X	
53		BME5L1	Thermal Engineering Lab		√	X	X	X	
54		BME5L2	Manufacturing Technology Lab-II		√	X	X	X	
		BME5L3	Instrumentation and Dynamics lab		√	X	X	X	
55		BME5C1	Comprehension I		√		X	X	X
56	VI	BME601	Machine Design II	√		X	X	X	
57		BME602	Finite element analysis	√		X	X	X	
58		BME603	Heat and Mass Transfer	√		X	X	X	
59		BME604	CAD/CAM	√		X	X	X	

60		BSS601	Value Education and Professional Ethics	√						X	X
61		BME6L1	Heat Transfer Lab		√	X	X	X			
62		BME6L2	CAD/CAM Lab		√	X	X	X			
63		BME6L3	Technical Seminar -II		√		X	X	X		
64	VII	BME701	Industrial Engineering	√		X	X	X			
65		BME702	Operations Research for Engineers	√		X	X	X			
66		BMT7L1	Fluid Power Automation Lab & Microprocessor Lab		√	X	X	X			
67		BME7L1	Computer Aided Analysis and Simulation Lab		√	X	X	X			
	VIII	BME8C1	Comprehension I		√		X	X	X		
68		BME8P1	Project work		√	X	X	X			
69	CORE ELECTIVE I	BME001	Advanced Internal Combustion Engines	√			X	X			
70		BME002	Special Casting Process	√			X	X			
71		BME003	Mechanical Vibrations	√			X	X			
72		BME004	Plant layout and Material Handling	√			X	X			
73	CORE ELECTIVE II	BME005	Design of Heat Exchangers	√			X	X			
74		BME006	Combustion Engineering	√			X	X			
75		BME 007	Composite materials and Technology	√			X	X			
76		BME008	Mechanics of Fracture	√			X	X			
77	CORE ELECTIVE III	BME009	Design for Manufacturing	√			X	X			
78		BME010	Advanced Turbo Machines	√			X	X			
79		BME 011	Process planning and cost Estimation	√			X	X			

80		BME012	Jigs, Fixtures and Press tools	√				X	X		
81	NON MAJOR ELECTIVE I	BGE001	Vibration Control and Condition Monitoring	√				X	X		
82		BGE002	Wind and Solar Energy	√				X	X		
83		BGE003	New and Renewable Sources of Energy	√				X	X		
84		BGE 004	Electronics for Mechanical systems	√				X	X		
85	NON MAJOR ELECTIVE II	BGE005	Industrial Robotics	√				X	X		
86		BGE006	Power Plant Engineering	√				X	X		
87		BGE007	Gas Dynamics and Space Propulsion	√				X	X		
88		BBA008	Total Quality Management	√					X	X	X
89	NON MAJOR ELECTIVE III	BGE009	Nuclear Engineering	√				X	X		
90		BGE010	Rapid prototyping	√				X	X		
91		BGE011	Computational Fluid Dynamics	√				X	X		
92		BGE012	MEMS & Nanotechnology	√				X	X		
93	OPEN ELECTIVE I	BBA001	Principles of Management and Organizational Behavior	√					X	X	X
94		BBA002	Entrepreneurship Development	√				X	X	X	X
95		BBA003	Marketing Management	√					X	X	X
96		BBA004	Engineering Economics and Financial Accounting	√					X	X	X
97	OPEN ELECTIVE II	BBA005	Energy Engineering and Management	√					X	X	X
98		BBA006	Indian Constitution and Society	√						X	X
99		BBA007	Engineering Economics and Cost Analysis	√					X	X	X











