

**Bharath Institute of Higher Education and Research**  
**Department of Electrical and Electronics Engineering**  
**Curriculum Vs PEO's Mapping**

S.NO	SUBJECT NAME	SUB CODE	THEORY	LAB	PEO1	PEO2	PEO3	PEO4	PEO5
<b>SEMESTER - I</b>									
1	English –I	BEN101	✓					X	
2	Mathematics-I	BMA101	✓		X				
3	Engineering Physics-I	BPH101	✓		X				
4	Engineering Chemistry - I	BCH101	✓		X				
5	Fundamentals of Computing and Programming	BCS101	✓		X				
6	Engineering Graphics	BME102	✓		X				
7	Basic Electrical and Electronics Engineering	BEE101	✓		X	X			
8	Computer Practice Laboratory	BCS1L1		✓	X				
9	Basic Electrical and Electronic Engineering Practices Lab	BEE1L1		✓	X				
10	Yoga	BSS1L7					X	X	X
<b>SEMESTER - II</b>									
1	English - II	BEN201	✓					X	
2	Mathematics - II	BMA201	✓		X				
3	Engineering Physics - II	BPH201	✓		X				
4	Engineering Chemistry - II	BCH201	✓		X				
5	French	BFR201	✓					X	
6	German	BGM201	✓					X	
7	Japanese	BJP201	✓					X	
8	Korean	BKR201	✓					X	
9	Chinese	BCN201	✓					X	
10	Tamil	BTM201	✓					X	
11	Personality Development	BSS201	✓					X	X
12	Biology for Engineers	BBT202	✓					X	
13	Basic Mechanical Engineering	BME203	✓		X				
14	Basic Civil Engineering	BCE201	✓		X				
15	Basic Civil & Mechanical Engineering Practices Lab	BCM2L1		✓	X				
16	Physics and Chemistry Laboratory	BPC2L1		✓	X				
17	NCC/NSS/NSO	BSS2L4						X	X

SEMESTER - III									
1	Mathematics–III	BMA301	✓			X			
2	Circuit Theory	BEE301	✓			X	X		
3	Electrical machines – I	BEE302	✓			X	X		
4	Electron Devices	BEE303	✓			X	X		
5	Electromagnetic Theory	BEE304	✓			X	X		
6	Digital Electronics	BEE306	✓			X	X		
7	Electrical Machines Laboratory - I	BEE3L2		✓		X	X		
8	Electron Devices Laboratory	BEE3L5		✓		X	X		

SEMESTER - IV									
1	Applied Probability and Statistics	BMA401	✓			X			
2	Electrical Machines - II	BEE401	✓			X	X		
3	Electrical Network analysis & Synthesis	BEE402	✓			X	X		
4	Linear Integrated circuits	BEE403	✓			X	X		
5	Thermal Engineering & Fluid mechanics	BME405	✓			X			
6	Environmental Studies	BCE406	✓						X
7	Technical Seminar - 1	BEE4S1					X	X	X
8	Electrical machines Laboratory – II	BEE4L1		✓		X	X		
9	Linear & Digital Integrated Circuits Laboratory	BEE4L2		✓		X	X		
10	Thermal Engineering & Fluid mechanics Laboratory	BME4L3		✓		X			

SEMESTER - V									
1	Numerical methods	BMA502	✓			X			
2	Control System	BEE501	✓			X	X		
3	Power Electronics	BEE502	✓			X	X		
4	Electrical Machine design	BEE504	✓			X	X		
5	Power Generation Systems	BEE505	✓			X	X		
6	Comprehension I	BEE5C1					X	X	X
7	Control System Laboratory	BEE5L1		✓		X	X		
8	Power Electronics Laboratory	BEE5L2		✓		X	X		

CORE ELECTIVE -I									
1	Electrical Special Machines	BEE015	✓				X		
2	Distributed generation and Micro grid	BEE051	✓				X		
3	Solid State Relays	BEE012	✓				X		
4	Power System Protection and Switch Gear	BEE053	✓				X		
5	High Voltage Engineering	BEE013	✓				X		

SEMESTER - VI									
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1	Transmission and Distribution	BEE601	✓		X	X			
2	Microprocessor and Microcontroller	BEE603	✓		X	X			
3	Digital Signal Processing	BEE604	✓		X	X			
4	Measurement and Instrumentation	BEE605	✓		X	X			
5	Value Education & Professional Ethics	BSS601	✓				X		X
6	Microprocessor and Microcontroller Laboratory	BEE6L1		✓	X	X			
7	Measurement and Instrumentation Laboratory	BEE6L2		✓	X	X			
<b>CORE ELECTIVE -II</b>									
1	Electrical Machine Modeling and Analysis	BEE052	✓			X			
2	Flexible AC Transmission Systems	BEE016	✓			X			
3	Renewable Energy Sources	BEE048	✓			X			
4	Advanced Control System	BEE003	✓			X			
5	High Voltage DC Transmission	BEE011	✓			X			
<b>NON MAJOR ELECTIVE -I</b>									
1	Instrumentation and Control in power Plant Industries	BEE045	✓			X			
2	Design of Embedded Systems	BEE049	✓			X			
3	Robotics and Automation	BEE009	✓			X			
4	Principles of communication Engineering	BEC612	✓			X			
5	Electronic Integrated Circuits	BEE042	✓			X			
<b>SEMESTER - VII</b>									
1	Operations Research for Engineers	BMA701	✓		X				
2	Power System Analysis	BEE701	✓			X			
3	Electrical Drives and Control	BEE703	✓			X			
4	Term paper	BEE7P1				X	X	X	
5	Power System Using PC Laboratory	BEE7L1		✓		X			
6	Electrical Drives & Control Laboratory	BEE7L3		✓		X			
7	In plant Training (End of 6 <sup>th</sup> Sem- 15 days)	BEE7V1				X	X		
<b>CORE ELECTIVE -III</b>									
1	Power System Operation and Control	BEE047	✓			X			
2	Power Quality Management	BEE044	✓			X			
3	Smart Grid	BEE019	✓			X			
4	Solar Energy Utilization	BEE043	✓			X			
5	Electric and Hybrid Vehicles	BEE033	✓			X			
<b>NON MAJOR ELECTIVE -II</b>									
1	Bio-Medical Instrumentation	BEE007	✓		X				
2	Fuzzy Logic and Neutral Network	BEE014	✓			X			
3	Micro Controller Based System Design	BEE027	✓			X			
4	Biosensors and Transducer	BBM405	✓			X			

5	Automotive Electronics	BEC013	✓			X			
<b>OPEN ELECTIVE - I</b>									
1	Engineering Economics and Financial accounting	BBA004	✓				X	X	X
2	Total Quality Management	BBA008	✓				X	X	X
3	Principles of Management and Organizational Behaviour	BBA001	✓				X	X	X
4	Web Design	BEE031	✓		X				
5	Java Programming	BEE046	✓		X				
<b>SEMESTER - VIII</b>									
1	Comprehension II	BEE8C1				X	X	X	
2	Project Work	BEE8P1				X	X	X	
<b>NON MAJOR ELECTIVE -III</b>									
1	Virtual Instrumentation	BEI704	✓			X			
2	Micro Electro Mechanical Systems	BEE026	✓			X			
3	Process control Engineering	BEE050	✓			X			
4	Fibre Optics and Laser Instrumentation	BEE022	✓			X			
5	Energy Engineering And Management	BBA005	✓			X			
<b>OPEN ELECTIVE - II</b>									
1	Engineering Economics and Cost Analysis	BBA007	✓				X	X	X
2	Entrepreneurship Development	BBA002	✓				X	X	X
3	Marketing Management	BBA003	✓				X	X	X
4	Cloud Computing	BEE029	✓		X				
5	Cyber Security	BEE030	✓		X				

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING									
CURRICULUM Vs PEO's CHART									
	SEM 1	SEM 2	SEM 3	SEM 4	SEM 5	SEM 6	SEM 7	SEM 8	Total
PEO1	8	7	8	8	7	6	4	2	50
PEO2	1	0	7	6	12	16	15	7	64
PEO3	1	0	0	1	1	1	5	5	14
PEO4	2	10	0	1	1	0	4	3	21
PEO5	1	2	0	1	0	1	3	3	11

