Bharath Institute of Higher Education and Research, Chennai

Curriculum Table – B.Tech. – Electrical and Electronics Engineering – CBCS System

L-Lecture Hrs/Week | T – Tutorial Hours / Week | C- Credits | P – Practical Hours/Week

Category	Category wise % of %Credits	Year - I												Year - II												Year - III												Year - IV											
		Semester - 1						Semester - 2						Semester-3						Semester - 4						Semester - 5						Semester-6						Semester-7						Semester-8					
		Course Code	Course Title	L	T	P	C	Course Code	Course Title	L	T	P	C	Course Code	Course Title	L	T	P	C	Course Code	Course Title	L	T	P	C	Course Code	Course Title	L	T	P	C	Course Code	Course Title	L	T	P	C	Course Code	Course Title	L	T	P	C	Course Code	Course Title	L	T	P	C
Art & Humanities-H	9.74%	BEN101	English – I	3	1	0	3	BEN201	English – II	3	1	0	3							BCE406	Environmental Studies	3	0	0	3							BSS601	Value Education & Professional Ethics	3	0	0	3												
		BSS1L7	Yoga	0	0	2	1	BFI201	Foreign/Indian Language	3	0	0	3																																				
								BSS201	Personality Development	2	0	0	2																																				
								BSS2L4	NCC/ NSS	0	0	2	1																																				
	19	Total					4	Total					9	Total						Total					3	Total						Total					3	Total						Total					
Basic Sciences - B	18.97%	BMA101	Mathematics – I	3	1	0	3	BMA201	Mathematics – II	3	1	0	3	BMA301	Mathematics – III	3	2	0	4	BMA401	Applied Probability and Statistics	3	2	0	4	BMA502	Numerical methods	3	2	0	4									BMA701	Operations Research for Engineers	4	0	0	4					
		BPH101	Engineering Physics - I	3	0	0	3	BPH201	Engineering physics – II	3	0	0	3																																				
		BCH101	Engineering Chemistry – I	3	0	0	3	BCH201	Engineering Chemistry – II	3	0	0	3																																				
		BPC1L1	Physics and Chemistry Laboratory	0	0	3/3	0	BPC2L1	Physics and Chemistry Laboratory	0	0	3/3	1																																				
								BBT202	Biology for Engineers	2	0	0	2																																				
	37	Total					9	Total					12	Total					4	Total					4	Total					4	Total						Total					4	Total					
Engineering Science-E	7.69%	BCS101	Fundamentals of Computing and Programming	3	0	0	3	BME203	Basic Mechanical Engineering	2	0	0	2																																				
		BME102	Engineering Graphics – C	1	0	3	3	BCE201	Basic Civil Engineering	2	0	0	2																																				
		BEE101	Basic Electrical and Electronics Engineering	2	0	0	2	BCM2L1	Basic Civil & Mech Engg. Practices Laboratory	0	0	3/3	1																																				
		BCS1L1	Computer Practice Laboratory –I	0	0	3	1																																										
		BEE1L1	Basic Electrical and Electronics Engineering Practices Laboratory	0	0	3	1																																										
	15	Total					10	Total					5	Total						Total						Total						Total						Total						Total					
Professional Core - P	43.58%													BEE301	Circuit Theory	4	0	0	4	BEE401	Electrical Machines - II	3	0	0	3	BEE501	Control System	4	0	0	4	BEE601	Transmission and Distribution	4	0	0	4	BEE701	Power System Analysis	4	0	0	4					
														BEE302	Electrical machines – I	3	0	0	3	BEE402	Electrical Network analysis & Synthesis	3	0	0	3	BEE502	Power Electronics	3	0	0	3	BEE603	Microprocessor and Microcontroller	3	0	0	3	BEE703	Electrical Drives and Control	4	0	0	4					
														BEE303	Electron Devices	3	0	0	3	BEE403	Linear Integrated circuits	3	0	0	3	BEE504	Electrical Machine design	4	0	0	4	BEE604	Digital Signal Processing	3	0	0	3	BEE7L1	Power System Using PC Laboratory	0	0	3	2					
														BEE304	Electromagnetic Theory	3	0	0	3	BME405	Thermal Engineering & Fluid mechanics	3	0	0	3	BEE505	Power Generation Systems	3	0	0	3	BEE605	Measurement and Instrumentation	3	0	0	3	BEE7L3	Electrical Drives & Control Laboratory	0	0	3	2					
														BEE306	Digital Electronics	3	0	0	3	BEE4L1	Electrical machines Laboratory – II	0	0	3	2	BEE5L1	Control System Laboratory	0	0	3	2	BEE6L1	Microprocessor and Microcontroller Laboratory	0	0	3	2											
														BEE3L2	Electrical Machines Laboratory - I	0	0	3	2	BEE4L2	Linear & Digital Integrated Circuits Laboratory	0	0	3	2	BEE5L2	Power Electronics Laboratory	0	0	3	2	BEE6L2	Measurement and Instrumentation Laboratory	0	0	3	2											
														BEE3L5	Electron Devices Laboratory	0	0	3	2	BME4L3	Thermal Engineering & Fluid mechanics Laboratory	0	0	3	2																							
	85	Total						Total						Total					20	Total					18	Total					18	Total					17	Total					12	Total					
Open Electives	3.07%																																						Open Elective-I	3	0	0	3		Open Elective-II	3	0	0	3
	6	Total						Total						Total						Total						Total						Total						Total					3	Total					3
Projects/Internships	7.69%																			BEE4S1	Technical Seminar - 1	0	0	2	1	BEE5C1	Comprehension I	0	0	0	1								Term paper	0	0	4	2		Comprehension II	0	0	0	1
																																							In plant Training	0	0	0	1		Project Work	0	0	18	9
	15	Total						Total						Total						Total					1	Total					1	Total						Total					3	Total					10
Core Electives	4.61%																										Core Elective-I	3	0	0	3		Core Elective-II	3	0	0	3		Core Elective-III	3	0	0	3					
	9	Total						Total						Total						Total						Total					3	Total					3	Total					3	Total					
Non-Major	4.61%																																Non –Major Elective-I	3	0	0	3		Non Major Elective-II	3	0	0	3		Non Major Elective-III	3	0	0	3
	9	Total						Total						Total						Total						Total						Total					3	Total					3	Total					3
Total Credits	195						23						26						24						26						26						26						28						16