

**COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY**

**Scheme for I to VIII**

**B.TECH ELECTRICAL & ELECTRONICS ENGINEERING**

(2006 Admission onwards)

## **B.TECH ELECTRICAL & ELECTRONICS ENGINEERING**

**NB: For all practicals from semester I & II to semester VII, 50% weightage is to be given for continuous evaluation and 50% for end semester examination**

### **Semester I & II (Common to all branches)**

Course Code	Subject Name	Hrs./ week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/ EI/IT/ME/SE 101	Engineering Mathematics I	3		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 102	Engineering Physics	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 103	Engineering Chemistry	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 104	Engineering Mechanics	3	1	50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 105	Engineering Graphics	1	3	50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 106	Basic Civil & Mechanical Engineering	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 107	Basic Electrical Engineering & Electronics	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 108	Computer Programming	2		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 109	Technical Communication & Social Sciences	3*		50	100	150
CE/CS/EB/EC/EE/ EI/IT/ME/SE 110	Computer Programming Lab		3	100		100
CE/CS/EB/EC/EE/ EI/IT/ME/SE 111	Electrical & Mechanical Workshops		3	100		100
<b>Total</b>		<b>20</b>	<b>10</b>	<b>650</b>	<b>900</b>	<b>1550</b>

**\* 1 hour/week for environmental studies**

### **Semester III**

Course Code	Subject Name	Marks				
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/ EI/IT/ME/SE 301	Engineering Mathematics II	4		50	100	150
EE 302	Fluid Mechanics & Heat Engines	4		50	100	150
CE/EE 303	Strength of Materials	4		50	100	150
EE 304	Electric Circuit Theory	4		50	100	150
EE 305	Electrical Measurements & Measuring Instruments	4		50	100	150
CS/EB/EE 306	Electronic Devices and Circuits	4		50	100	150
CS/EE 307	Electronic Circuits Lab		3	100		100
EE 308	Basic Electrical Engineering Lab		3	100		100
<b>Total</b>		<b>24</b>	<b>6</b>	<b>500</b>	<b>600</b>	<b>1100</b>

**Semester IV**

Course Code	Subject Name	Hrs./week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/EI/ IT/ME/SE 401	Engineering Mathematics III	4		50	100	150
EE 402	Logic Design	4		50	100	150
EE 403	Electrical Machines I	4		50	100	150
EE 404	Linear System Analysis	4		50	100	150
EC/EE 405	Analog Communication	4		50	100	150
EC/EB/EI/EE 406	Industrial & Power Electronics	4		50	100	150
CS/EB/EI/EC/EE 407	Digital Electronics Lab		3	100		100
EE 408	Electrical Measurements Lab		3	100		100
	<b>Total</b>	<b>24</b>	<b>6</b>	<b>500</b>	<b>600</b>	<b>1100</b>

**Semester V**

Subject Code	Subject Name	Hrs./week		Marks		
		L	T/D/P	Internal	University	Total
CE/CS/EB/EC/EE/EI/ IT/ME/SE 501	Engineering Mathematics IV	4		50	100	150
EE 502	Electrical Machines II	4		50	100	150
EE 503	Field Theory	4		50	100	150
EE 504	Engineering Material Science	4		50	100	150
EE 505	Microprocessor Based Systems	4		50	100	150
EE 506	Linear Integrated Circuits	4		50	100	150
EE 507	Electrical Machines I Lab		3	100		100
EE 508	Power Electronics Lab		3	100		100
	<b>Total</b>	<b>24</b>	<b>6</b>	<b>500</b>	<b>600</b>	<b>1100</b>

**Semester VI**

Subject Code	Subject Name	Hrs./week		Marks		
		L	T/D/P	Internal	University	Total
EE 601	Power Systems I	4		50	100	150
CS/EE 602	Digital Signal Processing	4		50	100	150
EE 603	Control Systems I	4		50	100	150
EE 604	Electrical Drawing	4		50	100	150
EE 605	Modern Communication Engineering	4		50	100	150
EE 606	Electrical Machines III	4		50	100	150
EE 607	Microprocessor Lab		3	100		100
EE 608	Mini Project		3	100		100
	<b>Total</b>	<b>24</b>	<b>6</b>	<b>500</b>	<b>600</b>	<b>1100</b>

### Semester VII

Subject Code	Subject Name	Hrs./week		Marks		
		L	T/D/P	Internal	University	Total
CS/EB/EC/EE/EI/IT 701	Industrial Organization and Management	4		50	100	150
EE 702	Design Estimation & Costing	4		50	100	150
EE 703	Power Systems II	4		50	100	150
EE 704	Control Systems II	4		50	100	150
EE 705	Elective I	4		50	100	150
EE 706	Electrical Machines II Lab		3	100		100
EE 707	Advanced Electrical Engineering Lab		3	100		100
EE 708	Seminar		2	50		50
EE 709	Project Design		2	50		50
<b>Total</b>		<b>20</b>	<b>10</b>	<b>550</b>	<b>500</b>	<b>1050</b>

### Elective I

- EB/EE 705 A: Computer Communications
- EE 705 B: High Voltage DC Transmission
- EE705 C: Neural Network & Fuzzy Logic
- EE 705 D: Optimal Control Theory

### Semester VIII

Subject Code	Subject Name	Hrs./week		Marks		
		L	T/D/P	Internal	University	Total
EE 801	Electrical Machine Design	4		50	100	150
EE 802	Power Systems III	4		50	100	150
EE 803	Electronic Instrumentation	4		50	100	150
EE 804	Elective II	4		50	100	150
EE 805	Project Work		14	300		300
EE 806	Viva-voce				100	100
<b>Total</b>		<b>16</b>	<b>14</b>	<b>500</b>	<b>500</b>	<b>1000</b>
<b>Grand Total</b>				<b>3700</b>	<b>4300</b>	<b>8000</b>

### Elective II

- CS/EC/EE/EI 804 A: Digital Image Processing
- EE 804 B: Renewable Sources of Energy
- EE 804 C: Flexible AC Transmission
- EB/EE 804 D: VLSI Design

