

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016
B.E. ELECTRICAL & ELECTRONICS ENGINEERING

V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours/Week		Examination				Credits
			Theory	Practical Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15EE51	Management and Entrepreneurship	04	--	03	80	20	100	4
2	15EE52	Microcontroller	04	--	03	80	20	100	4
3	15EE53	Power Electronics	04	--	03	80	20	100	4
4	15EE54	Signal and Systems	04	--	03	80	20	100	4
5	15EE55X	Professional Elective -I	03	--	03	80	20	100	3
6	15EE56X	Open Elective-I	03	--	03	80	20	100	3
7	15EEL57	Microcontroller Laboratory	--	1I+2P	03	80	20	100	2
8	15EEL58	Power Electronics Laboratory	--	1I+2P	03	80	20	100	2
TOTAL			22	6	24	640	160	800	26

Professional Elective-I		Open Elective-I	
15EE551	Solar & Wind Energy	15EE561	Operation Research
15EE552	Electrical Engineering Materials	15EE562	Programming with Java
15EE553	Sensors and Transducers	15EE563	Electronic Communication Systems
15EE554	Special Electrical Machines	15EE564	Programmable Logic Controller
		15EE565	National Cadet Corpse (NCC) As per the decision of Joint Board of Studies. The syllabus is to be provided by the present Dean.

1. Professional Elective: Electives relevant to chosen specialization/branch
2. Open Elective: Electives from other technical and/or emerging subject areas

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Sl. No.	Subject Code	Title	Teaching Hours		Examination				Credits
			Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15EE61	Control Systems	04	--	03	80	20	100	4
2	15EE62	Power System Analysis -1	04	--	03	80	20	100	4
3	15EE63	Digital Signal Processing	04	--	03	80	20	100	4
4	15EE64	Electrical Machine Design	04	--	03	80	20	100	4
5	15EE65X	Professional Elective-II	03	--	03	80	20	100	3
6	15EE66X	Open Elective-II	03	--	03	80	20	100	3
7	15EEL67	Control System Laboratory	--	1I+2P	03	80	20	100	2
8	15EEL68	Digital Signal Processing Laboratory	--	1I+2P	03	80	20	100	2
TOTAL			22	6	24	640	160	800	26

Professional Elective-II		Open Elective-II	
15EE651	Computer Aided Electrical Drawing	15EE661	Object Oriented Programming using C++
15EE652	Advanced Power Electronics	15EE662	Embedded System
15EE653	Energy Auditing & Demand side Management	15EE663	Cyber Security
15EE654	Electrical Estimation and Costing	15EE664	Artificial Neural Networks & Fuzzy Logic
		15EE665	Mobile Applications Development As per the decision of Joint Board of Studies. The syllabus is to be provided by CSE Board.

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VII SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15EE71	Power System Analysis - 2	04	--	03	20	80	100	4
2	15EE72	Power System Protection	04	--	03	20	80	100	4
3	15EE73	High Voltage Engineering	04	--	03	20	80	100	4
4	15EE74X	Professional Elective-III	03	--	03	20	80	100	3
5	15EE75X	Professional Elective-IV	03	--	03	20	80	100	3
6	15EEL76	Power System Simulation Laboratory	--	1I+2P	03	20	80	100	2
7	15EEL77	Relay and High Voltage Laboratory	--	1I+2P	03	20	80	100	2
8	15EEP78	Project Phase –I + Seminar	--	--	--	100	--	100	2
TOTAL			18	6	21	240	560	800	24

Professional Elective-III		Professional Elective-IV	
15EE741	Modern Control Theory	15EE751	FACTs
15EE742	Utilization of Electrical Power	15EE752	Testing and Commission of Power System Apparatus
15EE743	VLSI Circuits	15EE753	Introduction to Nuclear Power
15EE744	Power System Planning	15EE754	Carbon Capture and Storage

1. **Professional Elective: Electives relevant to chosen specialization / branch**
2. **Open Elective: Electives from other technical and/or emerging subject areas**
3. **Project Phase 1 + Seminar : Literature Survey, Problem Identification, Objectives and Methodology, Submission of Synopsis and Seminar**

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VIII SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15EE81	Power System Operation and Control	4	--	3	20	80	100	4
2	15EE82	Industrial Drives and Applications	4	--	3	20	80	100	4
3	15EE83X	Professional Elective-V	3	--	3	20	80	100	3
4	15EE84	Internship / Professional Practice	Industry Oriented		3	50	50	100	2
5	15EEP85	Project Work Phase -II	--	6	3	100	100	200	6
6	15EES86	Seminar	--	4	--	100	--	100	1
TOTAL			11	10	15	310	390	700	20

Professional Elective-V	
15EE831	Smart Grid
15EE832	Industrial Power Distribution
15EE833	Integration of Distributed Generation
15EE834	Power System Emergencies

1. **Professional Elective: Electives relevant to chosen specialization /branch**
2. **Open Elective: Electives from other technical and/or emerging subject areas**
3. **Internship / Professional Practice: To be carried out between 6th and 7th semester vacation or 7th and 8th semester vacation period.**