

**Modified Draft Scheme of V – VIII Semesters of  
B.E. Program in E&EE  
to be effective from the  
Academic year 2008-2009**

**As finalized at the meeting of BOS in E&EE held at  
Regional office, VTU, Bangalore  
on February 27<sup>th</sup> - 28<sup>th</sup> , 2008.**

**Visvesvaraya Technology University, Belgaum**

## SCHEME OF TEACHING AND EXAMINATION OF B.E. DEGREE COURSE

V SEMESTER B.E. IN E&EE									
Sl. No.	Subject Code	Subject Title	Teaching Dept.	Lecture Hr/Wk	Lab Hr/Wk	Exam Hours	I.A. Marks	Exam Marks	Total Marks
1	06AL51	Management and Entrepreneurship	E&EE	4	-	3	25	100	125
2	06EE52	Signals and Systems	E&EE	4	-	3	25	100	125
3	06EE53	Transmission and Distribution	E&EE	4	-	3	25	100	125
4	06EE54	D.C. Machines and Synchronous Machines	E&EE	4	-	3	25	100	125
5	06EE55	Modern Control theory	E&EE	4	-	3	25	100	125
6	06EE56	Linear IC's and Applications	E&EE	4	-	3	25	100	125
7	06EEL57	Circuit Simulation and Measurements Laboratory	E&EE	-	3	3	25	50	75
8	06EEL58	Transformers and Induction Machines Laboratory	E&EE	-	3	3	25	50	75
<b>Total</b>				24	6	24	200	700	900

- Each theory question paper has 8 main questions of 20 marks each with four questions in part A & four questions in part B. Questions should be set without omitting any unit or chapter of the syllabus.
- Out of eight questions, five full questions should be answered choosing at least two questions from each part by the student.
- Each main question shall have a maximum of 3 sub-sections.
- Preferably 50% of each main question shall have a numerical problem.
- For each 6.5 hours of teaching (approximately), one main question of 20 marks is to be set.
- Questions of various topics may be interleaved within each part to motivate the student to prepare for the entire syllabus.

**SCHEME OF TEACHING AND EXAMINATION OF B.E. DEGREE COURSE**

<b>VI SEMESTER B.E. IN E&amp;EE</b>									
<b>Sl. No.</b>	<b>Subject Code</b>	<b>Subject Title</b>	<b>Teaching Dept.</b>	<b>Lecture Hr/Wk</b>	<b>Lab Hr/Wk</b>	<b>Exam Hours</b>	<b>I.A. Marks</b>	<b>Exam Marks</b>	<b>Total Marks</b>
1	06EE61	Power System Analysis and Stability	E&EE	4	-	3	25	100	125
2	06EE62	Switchgear & Protection	E&EE	4	-	3	25	100	125
3	06EE63	Electrical Machine Design	E&EE	4	-	3	25	100	125
4	06EE64	Digital Signal Processing	E&EE	4	-	3	25	100	125
5	06EE65	Electrical Drawing and CAD	E&EE	4		3	25	100	125
6	06EE66	Elective-I (Group-A)	E&EE	4	-	3	25	100	125
7	06EEL67	D.C. Machines and Synchronous Machine Laboratory	E&EE	-	3	3	25	50	75
8	06EEL68	Control Systems Laboratory	E&EE	-	3	3	25	50	75
<b>Total</b>				<b>24</b>	<b>06</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>

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<b>Elective-I (Group A)</b>		
<b>Sl. No.</b>	<b>Subject Code</b>	<b>Subject Title</b>
1	06EE661	Network Synthesis and Active Filter Design
2	06EE662	Advanced Power Electronics
3	06EE663	Electronic Instrumentation
4	06EE664	Intellectual Property Rights
5	06EE665	Object Oriented Programming using C++
6	06EE666	Fuzzy Logic
7	06EE667	Artificial Neural Network

## SCHEME OF TEACHING AND EXAMINATION OF B.E. DEGREE COURSE

<b>VII SEMESTER B.E. IN E&amp;EE</b>									
Sl. No.	Subject Code	Subject Title	Teaching Dept.	Lecture Hr/Wk	Lab Hr/Wk	Exam Hours	I.A. Marks	Exam Marks	Total Marks
1	06EE71	Computer Techniques in Power System Analysis	E&EE	4	-	3	25	100	125
2	06EE72	Electrical Power Utilization	E&EE	4	-	3	25	100	125
3	06EE73	High Voltage Engineering	E&EE	4	-	3	25	100	125
4	06EE74	Industrial Drives and Applications	E&EE	4	-	3	25	100	125
5	06EE75	Elective-II (Group-B)	E&EE	4	-	3	25	100	125
6	06EE76	Elective-III (Group-C)	E&EE	4	-	3	25	100	125
7	06EEL77	Relay and High Voltage Laboratory	E&EE	-	3	3	25	50	75
8	06EEL78	Power System Simulation Laboratory	E&EE	-	3	3	25	50	75
<b>Total</b>				24	6	24	200	700	900

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- Each main question shall have a maximum of 3 sub-sections
- Preferably 50% of each main question shall have a numerical problem.
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Sl. No.	Elective-II (Group-B)		Elective -III (Group-C)	
	Sub. Code	Subject Title	Sub. Code	Subject Title
1	06EE751	Power System Planning	06EE761	Reactive Power Management
2	06EE752	Over Voltages in Power Systems	06EE762	Microelectromechanical Systems (MEMS)
3	06EE753	Testing and Commissioning of Electrical Equipment	06EE763	Energy Auditing and Demand Side Management
4	06EE754	Electrical Engineering Materials	06EE764	Insulation Engineering
5	06EE755	Digital System Design using VHDL	06EE765	Discrete Control Systems
6	06EE756	Embedded Systems	06EE766	VLSI Circuits and Design
7	06EE757	Reliability Engineering	06EE767	Operating System

## SCHEME OF TEACHING AND EXAMINATION OF B.E. DEGREE COURSE

<b>VIII SEMESTER B.E. IN E&amp;EE</b>									
Sl. No.	Subject Code	Subject Title	Teaching Dept.	Lecture Hr/Wk	Lab Hr/Wk	Exam Hours	I.A. Marks	Exam Marks	Total Marks
1	06EE81	Industrial Management, Electrical Estimation and Economics	E&EE	4	-	3	25	100	125
2	06EE82	Power System Operation and Control	E&EE	4	-	3	25	100	125
3	06EE83	Elective-IV (Group D)	E&EE	4	-	3	25	100	125
4	06EE84	Elective-V (Group E)	E&EE	4	-	3	25	100	125
5	06EEP85	Project Work	E&EE	-	6	3	100	100	200
6	06EES86	Seminar on Current Topics	E&EE	-	-	-	50	-	50
<b>Total</b>				16	06	15	250	500	750

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Sl. No.	Elective-IV (Group-D)		Elective-V (Group-E)	
	Sub. Code	Subject Title	Sub. Code	Subject Title
1	06EE831	Modern Power System Protection	06EE841	Power Systems Dynamics and Stability
2	06EE832	Electrical Distribution Systems	06EE842	Electromagnetic Compatibility
3	06EE833	Operation Research	06EE843	Renewable Energy Sources
4	06EE834	Programmable Logic Controllers	06EE844	HVDC Transmission
5	06EE835	Software Engineering	06EE845	Electrical Power Quality
6	06EE836	Fixable A.C. Transmission Systems (FACTS)	06EE846	Computer Control of Electrical Drives
7	06EE837	Data communications and Networking	06EE847	Data Base Management Systems (DBMS)