



**VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University)**  
**OFFICE OF THE CONTROLLER OF EXAMINATIONS**  
**(REGULATIONS-2016)**

**Programme: B.E. Electrical and Electronics Engineering**

Semester	B E (ELECTRICAL AND ELECTRONICS ENGINEERING -EE)						
	S. No.	Course Code	Course Title	Credits			
				L	T	P	C
1	1	16ENT11	Communicative English - I	3	0	0	3
	2	16MAT11	Mathematics - I	3	2	0	4
	3	16PHT11	Engineering Physics	3	0	0	3
	4	16CYT11	Applied Chemistry - I	3	0	0	3
	5	16CST11	Programming in C	3	0	0	3
	6	16CET11	Basic Civil and Mechanical Engineering	3	0	0	3
	7	16PHL11	Physics and Chemistry Laboratory - I	0	0	3	1
	8	16CSL11	Computer Programming Laboratory	0	0	3	1
	9	16VET11	Value Education for youth Empowerment	0	2	1	1
2	1	16ENT21	Communicative English - II	3	0	0	3
	2	16MAT21	Mathematics - II	3	2	0	4
	3	16PHT21	Materials Science	3	0	0	3
	4	16CYT21	Applied Chemistry - II	3	0	0	3
	5	16MEC21	Engineering Graphics	3	0	2	4
	6	16EET22	Electric Circuits Theory	3	2	0	4
	7	16PHL21	Physics and Chemistry Laboratory - II	0	0	3	1
	8	16EEL21	Electric Circuits Laboratory	0	0	3	1
	9	16MEL21	Engineering Practices Laboratory	0	0	3	2
3	1	16MAT31	Transforms and Partial Differential Equations	3	2	0	4
	2	16CST31	Object Oriented Programming	3	2	0	4
	3	16EET31	Electronic Devices and Circuits	3	2	0	4
	4	16EET32	DC Machines and Transformers	3	2	0	4
	5	16EET33	Electromagnetic Theory	3	2	0	4
	6	16EET34	Measurements and Instrumentation	3	0	0	3
	7	16CSL31	Object Oriented Programming Laboratory	0	0	3	1
	8	16EEL31	Electronic Devices and Circuits Laboratory	0	0	3	1
	9	16EEL32	DC Machines and Transformers Laboratory	0	0	3	1
	10	16ENL31	Professional Communication - I	0	0	2	1



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				L	T	P	C
4	1	16CYT31	Environmental Science and Engineering	3	0	0	3
	2	16MAT43	Numerical Methods	3	2	0	4
	3	16CST32	Data Structures	3	2	0	4
	4	16EET41	Linear Integrated Circuits	3	0	0	3
	5	16EET42	Induction and Synchronous Machines	3	2	0	4
	6	16EET43	Digital Logic Circuits Design	3	2	0	4
	7	16CSL32	Data Structures Laboratory	0	0	3	1
	8	16EEL41	Linear and Digital Integrated Circuits Laboratory	0	0	3	1
	9	16EEL42	Induction and Synchronous Machines Laboratory	0	0	3	1
	10	16ENL41	Professional Communication - II	0	0	2	1
5	1	16ECT55	Communication Engineering	3	0	0	3
	2	16EET51	Control Systems	3	2	0	4
	3	16EET52	Fundamentals of Microprocessor and Microcontroller	3	0	0	3
	4	16EET53	Power Electronics	3	0	0	3
	5	16EET54	Transmission and Distribution	3	0	0	3
	6		Professional Elective - I	3	0	0	3
	7	16ENL51	Aptitude and Logical Reasoning - I	0	0	2	1
	8	16EEL51	Control and Instrumentation Laboratory	0	0	3	1
	9	16EEL52	Microprocessor and Microcontroller Laboratory	0	0	3	1
	10	16EEL53	Power Electronics Laboratory	0	0	3	1
6	1	16EET61	Design of Electrical Apparatus	3	2	0	4
	2	16EET62	Power System Analysis	3	0	0	3
	3	16EET63	Solid State Drives	3	0	0	3
	4	16EET64	Discrete Time Signal Processing	3	2	0	4
	5		Professional Elective - II	3	0	0	3
	6		Open Elective - I	3	0	0	3
	7	16EEL61	Electric Drives and Control Laboratory	0	0	3	1
	8	16EEL62	Digital Signal Processing Laboratory	0	0	3	1
	9	16ENL52	Communication Skill Laboratory	0	0	3	1
	10	16ENL61	Aptitude and Logical Reasoning - II	0	0	2	1



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	S. No.	Course Code	Course Title	Credits			
				L	T	P	C
7	1	16MET72	Engineering Economics and Management	3	0	0	3
	2	16EET71	Embedded and Real Time Systems	3	0	0	3
	3	16EET72	Protection and Switch Gear	3	0	0	3
	4		Professional Elective - III	3	0	0	3
	5		Open Elective - II	3	0	0	3
	6		Open Elective - III	3	0	0	3
	7	16EEL71	Power System Simulation Laboratory	0	0	3	1
	8	16EEL72	Mini Project / Industrial Training	0	0	4	2
8	1	16MET81	Professional Ethics for Engineers	3	0	0	3
	2		Professional Elective - IV	3	0	0	3
	3		Professional Elective - V	3	0	0	3
	4	16EEL81	Project Work	0	0	16	8
PEs	1	16EEE01	Advanced Control System	3	0	0	3
	2	16EEE02	Electric Energy Generation, Utilization and Conservation	3	0	0	3
	3	16EEE03	Flexible AC Transmission Systems	3	0	0	3
	4	16EEE04	High Voltage Engineering	3	0	0	3
	5	16EEE05	Microcontroller Based System Design	3	0	0	3
	6	16EEE06	PLC and Automation	3	0	0	3
	7	16EEE07	Power Quality	3	0	0	3
	8	16EEE08	Power Plant Instrumentation	3	0	0	3
	9	16EEE09	Power System Operation and Control	3	0	0	3
	10	16EEE10	Power System Transients	3	0	0	3
	11	16EEE11	Smart Grid	3	0	0	3
	12	16ITT52	Computer Networks	3	0	0	3
	13	16BME17	Biomedical Instrumentation	3	0	0	3
	14	16BMT72	Digital Image Processing	3	0	0	3
	15	16ECT62	VLSI Design	3	0	0	3
OEs	1	16EEO01	PLC and SCADA	3	0	0	3
	2	16EEO02	Renewable Energy Sources	3	0	0	3
	3	16EEO03	Embedded and Real Time Systems	3	0	0	3
	4	16EEO04	Energy Auditing and Conservation	3	0	0	3

**PEs- Professional Electives**

**OEs- Open Electives**