



# VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University)

OFFICE OF THE CONTROLLER OF EXAMINATIONS

(REGULATIONS-2016)

Programme: B.E. Electronics and Communication Engineering

Semester	B E (ELECTRONICS AND COMMUNICATION ENGINEERING -EC)						
	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	2	0	4	4
	6	16ECT21	Electric Circuits and Electronic Devices	3	0	0	3
	7	16PHL21	Physics and Chemistry Laboratory - II	0	0	3	1
	8	16ECL21	Electric Circuits and Electronic Devices 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	16CYT31	Environmental Science and Engineering	3	0	0	3
	3	16EEC31	Fundamentals of Electrical Engineering	3	0	2	4
	4	16ECT31	Analog Electronics - I	3	2	0	4
	5	16ECT32	Digital Electronics	3	2	0	4
	6	16ECT33	Signals and Systems	3	2	0	4
	7	16ECL31	Analog Electronics Laboratory	0	0	3	1
	8	16ECL32	Digital Electronics Laboratory	0	0	3	1
	9	16ENL31	Professional Communication - I	0	0	2	1



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				L	T	P	C
4	1	16MAT41	Random Variables and Random Processes	3	2	0	4
	2	16ECT41	Analog Electronics - II	3	2	0	4
	3	16ECT42	Linear Integrated Circuit and its Applications	3	0	0	3
	4	16ECT43	Electromagnetic Fields	3	2	0	4
	5	16ECT44	Microprocessor and Microcontroller	3	0	0	3
	6	16ECT45	Analog Communication	3	0	0	3
	7	16ECL41	Circuits and Simulation Laboratory	0	0	3	1
	8	16ECL42	Linear Integrated Circuits Laboratory	0	0	3	1
	9	16ECL43	Microprocessor and Microcontroller Laboratory	0	0	3	1
	10	16ENL41	Professional Communication - II	0	0	2	1
5	1	16ITT44	Object Oriented Programming and Data Structures	3	0	0	3
	2	16ECT51	Digital Communication	3	0	0	3
	3	16ECT52	Digital Signal Processing	3	2	0	4
	4	16ECT53	Control Systems	3	2	0	4
	5	16ECT54	Computer Communication and Networks	3	0	0	3
	6		Professional Elective - I	3	0	0	3
	7	16ITL43	OOP and Data Structures Laboratory	0	0	3	1
	8	16ECL51	Communication Systems Laboratory	0	0	3	1
	9	16ECL52	Digital Signal Processing Laboratory	0	0	3	1
	10	16ENL51	Aptitude and Logical Reasoning - I	0	0	2	1
6	1	16MET72	Engineering Economics and Management	3	0	0	3
	2	16ECT61	Wireless and Mobile Communication	3	0	0	3
	3	16ECT62	VLSI Design	3	0	0	3
	4	16ECT63	Antennas and Wave Propagation	3	0	0	3
	5		Professional Elective - II	3	0	0	3
	6		Open Elective - I	3	0	0	3
	7	16ECL61	Wireless Networks Laboratory	0	0	3	1
	8	16ECL62	VLSI Design Laboratory	0	0	3	1
	9	16ENL52	Communication Skills 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	16ECT71	Embedded System Design	3	0	0	3
	2	16ECT72	Microwave and Radar Engineering	3	0	0	3
	3	16ECT73	Optical Communication and Networks	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	16ECL71	Embedded System Design Laboratory	0	0	3	1
	8	16ECL72	Microwave and Optical Laboratory	0	0	3	1
	9	16ECL73	Mini Project	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	16ECL81	Project Work	0	0	16	8
PEs	1	16ECE01	Medical Electronics	3	0	0	3
	2	16ECE02	Electronic Instrumentation and Measurements	3	0	0	3
	3	16ECE03	Transmission Lines and Waveguides	3	0	0	3
	4	16ECE04	Computer Architecture and Interfacing	3	0	0	3
	5	16ECE05	Fundamentals of Digital Image Processing	3	0	0	3
	6	16ECE06	CISC and RISC Architectures	3	0	0	3
	7	16ECE07	Nano Electronics	3	0	0	3
	8	16ECE08	Fundamentals of Soft Computing	3	0	0	3
	9	16ECE09	High Speed Networks	3	0	0	3
	10	16ECE10	Embedded Internet of Things	3	0	0	3
	11	16ECE11	FPGA Design	3	0	0	3
	12	16ECE12	Wireless Sensor Networks	3	0	0	3
	13	16ECE13	Cognitive Radio	3	0	0	3
	14	16ECE14	Modern Satellite Communication	3	0	0	3
	15	16ECE15	Wireless Networks	3	0	0	3
OEs	1	16ECO01	Industrial Electronics	3	0	0	3
	2	16ECO02	Automotive Electronics	3	0	0	3
	3	16ECO03	Scilab for Engineers	3	0	0	3
	4	16ECO04	Satellite Applications	3	0	0	3

**PEs- Professional Electives**

**OEs- Open Electives**