



VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University)

OFFICE OF THE CONTROLLER OF EXAMINATIONS

(REGULATIONS-2016)

Programme: M E – VLSI DESIGN

Semester	M E (VLSI DESIGN - VL)						
	S. No.	Course Code	Course Title	Credits			
				L	T	P	C
1	1	16MAT13	Advanced Mathematics	3	2	0	4
	2	16VLT11	VLSI Signal Processing	3	2	0	4
	3	16VLT12	VLSI Design Techniques	3	0	0	3
	4	16VLT13	ASIC and FPGA Design	3	0	0	3
	5	16VLT14	Hardware Software Co-Design	3	0	0	3
	6	16VLT15	Genetic Algorithm and its Applications	3	0	0	3
	7	16VLL11	HDL Programming Laboratory	0	0	4	2
2	1	16VLT21	CAD for VLSI Circuits	3	0	0	3
	2	16VLT22	Low Power VLSI Design	3	0	0	3
	3	16VLT23	System on Chip Design	3	0	0	3
	4	16VLT24	Analog Integrated Circuit Design	3	0	0	3
	5		Elective - I	3	0	0	3
	6		Elective - II	3	0	0	3
	7	16VLL21	Analog and Digital IC Design Laboratory	0	0	4	2
3	1		Elective - III	3	0	0	3
	2		Elective - IV	3	0	0	3
	3		Elective - V	3	0	0	3
	4	16VLL31	Project Work (Phase - I)	0	0	12	6
4	1	16VLL41	Project Work (Phase - II)	0	0	24	12



VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University)

OFFICE OF THE CONTROLLER OF EXAMINATIONS

(REGULATIONS-2016)

Programme: M E – VLSI DESIGN

Semester	M E (VLSI DESIGN - VL)						
	S. No.	Course Code	Course Title	Credits			
				L	T	P	C
PEs	1	16VLE01	Solid State Device Modeling and Simulation	3	0	0	3
	2	16VLE02	Security solutions in VLSI	3	0	0	3
	3	16VLE03	Analog and Mixed Mode VLSI Design	3	0	0	3
	4	16VLE04	DSP Integrated Circuits	3	0	0	3
	5	16VLE05	Electromagnetic Interference and Compatibility	3	0	0	3
	6	16VLE06	Embedded and Real Time Systems	3	0	0	3
	7	16AET12	Advanced Digital Logic System Design	3	0	0	3
	8	16VLE08	Analog VLSI Design	3	0	0	3
	9	16VLE09	Design of Semiconductor Memories	3	0	0	3
	10	16VLE10	VLSI for Wireless Communication	3	0	0	3
	11	16VLE11	Physical Design of VLSI Circuits	3	0	0	3
	12	16VLE12	Nano Electronic Devices	3	0	0	3
	13	16VLE13	Submicron VLSI Design	3	0	0	3
	14	16VLE14	IP Based VLSI Design	3	0	0	3
	15	16VLE15	Testing of VLSI Circuits	3	0	0	3
	16	16VLE16	Reconfigurable Computing	3	0	0	3
	17	16VLE17	Computer Architecture and Parallel Processing	3	0	0	3
	18	16VLE18	Biomedical Imaging Techniques	3	0	0	3
	19	16VLE19	Wireless Adhoc and Sensor Networks	3	0	0	3
	20	16VLE20	Cryptography	3	0	0	3

PEs- Professional Electives