

## Course Structure

### M.Sc. (Electronics) Choice Based Credit System (CBCS) Teaching and Evaluation Scheme(From Year 2018-19 onwards)

Sem No	Paper Code No	Title of the paper	Credit/ Week	Teaching Hrs/Week*	Duration of Examination in hrs/ Theory/ Practical	Marks at the exam Proper	Internal Assessment	Total
<b>I</b>	<b>NOTE: CT: Compulsory Theory CP: Compulsory Practical ET: Elective Theory</b>							
	ELCT 1.1	Semiconductor Device Theory and Practice	4	4	3	75	25	100
	ELCT 1.2	Signals and Systems	4	4	3	75	25	100
	ELCT 1.3	Programming in C++ and Basics of Python	4	4	3	75	25	100
	ELCT 1.4	Power Electronics Devices and Systems	4	4	3	75	25	100
	ELCP 1.5	Practical –I: Analog & Digital Electronics and MATLAB	4	4	4	75	25	100
	ELCP 1.6	Practical-II: Programming in C++ and Power Electronics	4	4	4	75	25	100
<b>II</b>	ELCT 2.1	Digital Signal Processing	4	4	3	75	25	100
	ELCT 2.2	Controls and Instrumentation	4	4	3	75	25	100
	ELCT 2.3	Microprocessor and Microcontroller	4	4	3	75	25	100
	ELET 2.4	Basic Electronics & Linear Integrated Circuits	4	4	3	75	25	100
	ELCP 2.5	Practical –III: DSP and Instrumentation	4	4	4	75	25	100
	ELCP 2.6	Practical – IV: Microprocessor & Microcontroller	4	4	4	75	25	100
<b>III</b>	ELCT 3.1	Digital Communication	4	4	3	75	25	100
	ELCT 3.2	Introduction to VLSI Circuits	4	4	3	75	25	100
	ELCT 3.3	Embedded Systems Design using ARM Cortex M4	4	4	3	75	25	100
	ELET 3.4	Communication and Digital Circuits	4	4	3	75	25	100
	ELCP 3.5	Practical - V: Digital Communication & VLSI	4	4	4	75	25	100

	ELCP 3.6	Practical – VI: Interfacing with Embedded ARM Cortex Controller	4	4	4	75	25	100
<b>IV</b>	ELCT 4.1	Microwave and Optical Fiber Communication Systems	4	4	3	75	25	100
	ELCT 4.2	Computer Communication	4	4	3	75	25	100
	ELCT 4.3	Digital System Design-VHDL	4	4	3	75	25	100
	ELCT 4.4	Micro Electro Mechanical Systems	4	4	3	75	25	100
	ELCP 4.5	Practical - VII : Optical Fiber Communication & VHDL	4	4	4	75	25	100
	ELCP 4.6	Project:	6	6	4	125 (75 for dissert ati on and 50 for Viva)	25	150