ENGINEERING AND TECHNOLOGY GROUP

ELECTRONICS TECHNOLOGY

Scheme of Examination

Std. XII

Paper	Title of the Paper	Theory		Practical		Term	Project	*	**	Total
rapei		Marks	Time (Hrs)	Marks	Time (Hrs)	work	work	I.V.	ΤΙΟ	Marks
3	Computer Hardware & Networking	80	3	80	3	10	10	10	10	200

* IV = Industrial Visits

** OJT = On Job Training

Paper III: Computer Hardware and Networking

Sr. No.	Unit	Sub-unit	Periods		
1.	Introduction to	1.1 Introduction and Evolution of microprocessor			
	Microprocessor	1.2 Basic Blocks of microprocessor			
	and Organization	1.3 Architecture of 8085 microprocessor	15		
		1.4 Functional pin diagram of 8085			
		1.5 Introduction to advance microprocessor			
2.	Instruction Set and	2.1 Addressing modes of 8085			
	programming of	2.2 Instruction set of 8085	20		
	8085	2.3 Interrupts in 8085	20		
		2.4 Assembly language Programming			
3.	Microcontrollers	3.1 Introduction to Microcontroller			
		3.2 Advantages over microprocessor			
		3.3 Architecture of 8051	12		
		3.4 Overview of other microcontrollers			
		3.5 Applications of microcontrollers			
4.	Networking	4.1 Study of transmission Lines			
	Technology	4.2 Network types and topologies	10		
	0,	4.3 Protocols	12		
		4.4 Introduction to connectivity devices			
5.	Fundamentals of	5.1 Basic blocks of computer			
	Computer	5.2 Memories in Computers			
		5.3 Overview of motherboard			
		5.4 Specifications of Computer			
		5.5 Computer assembly and installation of	28		
		peripheral devices.			
		5.6 Trouble shooting and AMC			
		5.7 Up gradation and security system.			
		5.8 Laptop			
6.	Operating Systems	6.1 Introduction to operating systems			
		6.2 Services in OS	45		
		6.3 Types of OS such as windows-7, windows-8,	15		
		Linux			
		6.4 Access and Security aspects of OS			
7.	C-Language	7.1 Introduction			
		7.2 Constants, Variable and data types			
		7.3 Operators Loops, Array,	12		
		7.4 Character strings and user defined function,			
		Simple programs.			
8.	PLC	8.1 Introduction to PLC			
		8.2 Block diagram of PLC	10		
		8.3 Principle, Working of PLC			
		Total Marks	120		