Government Polytechnic Vaishali

(Department of Electronics Engineering)

Lecture Plan

Name of the Faculty Email id and Mobile number Semester/Branch			NITESH KUMAR SINGH <u>nitesh.singh2230@gmail.com</u> , 8002708700 3 rd / Electronics Engg.									
							Subject Nan	ne/Subject	t (Code)	Electronics Drawing and Drafting/16	521304	
								ure/Week		3 Periods/Week + 1 Term Work = 6 hrs per week		
			Theory	F								
Units	Week	Lecture Day	Topics	Methods of Teaching	Remarks							
	1	1	Basics of Active and Passive Devices	PDF/Video/Hand written notes								
		2	Symbols and references of commonly used active devices.	PDF/Video/Hand written notes								
1		3	Symbols and references of commonly used active devices contd.	PDF/Video/Hand written notes								
Symbols		4	Symbols and references of commonly used passive devices	PDF/Video/Hand written notes								
		5	Symbols and references of commonly used passive devices contd.	PDF/Video/Hand written notes								
		6	Assignment on symbols and references of active and passive devices (2 sheets)	PDF/Google form								
	2	1	Construction view of commonly used components and devices	PDF/Video/Hand written notes								
2 Construction View of commonly used components and devices		2	Relay construction view showing all mechanical parts	PDF/Video/Hand written notes								
		3	Relay construction view showing all electrical parts	PDF/Video/Hand written notes								
		4	Microphones construction view showing all mechanical parts	PDF/Video/Hand written notes								
		5	Microphones construction view showing all electrical parts	PDF/Video/Hand written notes								
		6	Speaker construction view showing all mechanical parts	PDF/Video/Hand written notes								

		1	Microphones construction view showing all mechanical parts	PDF/Video/Hand written notes
		2	Microphones construction view showing all electrical parts	PDF/Video/Hand written notes
	3	3	Trimmers construction view showing all mechanical parts	PDF/Video/Hand written notes
	5	4	Trimmers construction view showing all electrical parts	PDF/Video/Hand written notes
		5	Garg Condensor construction view showing all mechanical and electrical parts	PDF/Video/Hand written notes
		6	Assignment on construction view of commonly used components and devices	PDF/Google form
		1	Overview of Block Diagrams of Electronic Devices and Circuits	PDF/Video/Hand written notes
		2	Block Diagrams of Analog Electronics Circuits	PDF/Video/Hand written notes
		3	Block Diagrams of Analog Electronics Circuits contd.	PDF/Video/Hand written notes
	4	4	Block Diagrams of Digital Electronics Circuits	PDF/Video/Hand written notes
		5	Block Diagrams of Digital Electronics Circuits contd.	PDF/Video/Hand written notes
		6	System diagrams of Electronics communication circuits	PDF/Video/Hand written notes
		1	System diagrams of Electronics communication circuits contd.	PDF/Video/Hand written notes
3 Block		2	Sub- System diagrams of Electronics Circuits	PDF/Video/Hand written notes
Diagrams		3	Sub- System diagrams of Electronics Circuits contd.	PDF/Video/Hand written notes
	5	4	General Layout of AM Transmitter	PDF/Video/Hand written notes
		5	General Layout of AM Receiver	PDF/Video/Hand written notes
		6	General Layout of FM Transmitter	PDF/Video/Hand written notes
	6	1	General Layout of FM Receiver	PDF/Video/Hand written notes
		2	General Layout of TV Transmitter	PDF/Video/Hand written notes
		3	General Layout of TV Transmitter	PDF/Video/Hand written notes

		4	General layout of Computer	PDF/Video/Hand written
		4	General layout of Computer	notes
		5	General layout of other electronic devices e.g Calculator	PDF/Video/Hand written notes
		6	Assignment on Block Diagrams	PDF/Google form
		1	Circuit Diagram of Rectifier Circuit showing interconnections	PDF/Video/Hand written
		-		notes
		2	Circuit Diagram of Transistor biasing circuit	PDF/Video/Hand written
				notes
		3	Circuit Diagram of BJT as amplifier	PDF/Video/Hand written
	7			notes
	/	4	Circuit Diagram of FET amplifier	PDF/Video/Hand written
				notes
		5	Circuit Diagram of Operational Amplifier	PDF/Video/Hand written
				notes
		6	Assignment on Circuits Diagrams	PDF/Google form
		1	Circuit Diagram of Monostable Circuit using BJT	PDF/Video/Hand written
				notes
		2	Circuit Diagram of Astable Circuit using BJT	PDF/Video/Hand written
				notes
		3	Filter and Attenuator circuit diagram	PDF/Video/Hand written
4	8			notes
Circuit	_	4	Oscillator Circuit diagram	PDF/Video/Hand written
Diagrams				notes
-		5	Modulator Circuit diagram	PDF/Video/Hand written
	-	6	Assignment on Cinquita Discussion	notes PDF/Google form
		6	Assignment on Circuits Diagrams	PDF/Google form PDF/Video/Hand written
		1	Regulated DC power supply of non-linear wave shaping	notes
		2	Detector Circuit diagram	PDF/Video/Hand written
		2		notes
	-	3	Wave shape generator	PDF/Video/Hand written
		5	Wave shape generator	notes
	9	4	Electric Machine and DC generator	PDF/Video/Hand written
	-			notes
		5	Inverter and converter circuit diagram	PDF/Video/Hand written
		-		notes
		6	Assignment on Circuits Diagrams	PDF/Google form
		1	Logic gate, Logic family, D/A converter, A/D converter circuit diagram	PDF/Video/Hand written
				notes
	10	2	Logic gate, Logic family, D/A converter, A/D converter circuit diagram contd	PDF/Video/Hand written
				notes

Logic Diagrams	4 5 6 1 2 3	Symbols of logic diagram Line work and labelling of logic gates Logic diagram of Shift Registers (SISO.SIPO,PISO,PIPO) Logic diagram of Counters (Asynchronous and Sychronous) Logic diagram of Multiplexers	PDF/Video/Hand written notes PDF/Video/Hand written notes PDF/Video/Hand written notes
Diagrams	6 1 2	Logic diagram of Shift Registers (SISO.SIPO,PISO,PIPO) Logic diagram of Counters (Asynchronous and Sychronous)	notes PDF/Video/Hand written notes PDF/Video/Hand written
	1	Logic diagram of Counters (Asynchronous and Sychronous)	PDF/Video/Hand written notes PDF/Video/Hand written
	2		
		Logic diagram of Multiplexers	
	3		PDF/Video/Hand written notes
		Logic diagram of De-Multiplexers	PDF/Video/Hand written notes
1	11 4	Logic diagram of adder circuit	PDF/Video/Hand written notes
	5	Logic diagram of subtractor circuit	PDF/Video/Hand written notes
	6	Logic diagram of encoder circuit	PDF/Video/Hand written notes
	1	Logic diagram of decoder circuit	PDF/Video/Hand written notes
	2	Assignment on Circuits Diagrams	PDF/Google form
	3	Truth Tables of Combinational Circuits	PDF/Video/Hand written notes
1	12 4	Truth Tables of Combinational Circuits contd	PDF/Video/Hand written notes
	5	Truth Tables of Sequential Circuits	PDF/Video/Hand written notes
	6	Truth Tables of Sequential Circuits contd	PDF/Video/Hand written notes
	1	Basics of Outline Drawing	PDF/Video/Hand written notes
	2	Outlining and Pin configuration of ICs	PDF/Video/Hand written notes
Unit 6	13 3	Outlining and Pin configuration of ICs contd	PDF/Video/Hand written notes
Outline ¹ Drawing	4	Outlining and Pin configuration of Semiconductor devices	PDF/Video/Hand written notes
Ŭ,	5	Outlining and Pin configuration of Semiconductor devices	PDF/Video/Hand written notes
	6	Electron Toys	PDF/Video/Hand written notes

		1	Speakers	PDF/Video/Hand written
				notes
		2	Parts of Electric Machine and Winding of Stator and Rotor	PDF/Video/Hand written
			č	notes
		3	Parts of Electric Machine and Winding of Stator and Rotor contd.	PDF/Video/Hand written
	14			notes
		4	Assignment on Outline Drawing	PDF/Google form
	-	5	Construction view of Relay Circuit, NPN Relay, Switch Circuit and PNP Relay	PDF/Video/Hand written
			Switch Circuit	notes
		6	Sketch of NPN Darlington Relay switch circuit	PDF/Video/Hand written
				notes
		1	Sketches of commonly used Electronic Devices and mechanical parts contd	PDF/Video/Hand written
				notes
		2	Pictorial views of commonly used Electronic Devices e.g Microphone	PDF/Video/Hand written
Unit 7				notes
		3	Pictorial views of commonly used Electronic Devices e.g. Moving coil	PDF/Video/Hand written
Sketch and	15		microphone, crystal microphone	notes
Pictorial		4	Assignment on sketch and pictorial views	PDF/Google form
views		5	Basics of Wiring Diagram	PDF/Video/Hand written
				notes
		6	Wiring diagram of commonly used circuits	PDF/Video/Hand written
				notes
		1	Wiring diagram of commonly used circuits contd	PDF/Video/Hand written
				notes
	16	2	Preparation of layouts	PDF/Video/Hand written
				notes
		3	Preparation of layouts contd	PDF/Video/Hand written
				notes
		4	Wire Folds	PDF/Video/Hand written
				notes
Unit 8		5	Wire Folds contd	PDF/Video/Hand written
				notes
Wiring	[6	Wire Folds contd	PDF/Video/Hand written
Diagram				notes
		1	Representation of Joints in different ways	PDF/Video/Hand written
				notes
		2	Representation of Joints in different ways contd	PDF/Video/Hand written
	17			notes
	1/	3	Representation of Joints in different ways contd	PDF/Video/Hand written
				notes
	[[4	Representation of Joints in different ways contd	PDF/Video/Hand written
	l I			notes

		5	Assignment on wiring diagram	PDF/Google form
		6	Introduction to PCB drawing	PDF/Video/Hand written
				notes
		1	Advantages of PCB drawing	PDF/Video/Hand written
	_			notes
		2	Drawing documents for PCB	PDF/Video/Hand written
	_			notes
		3	Drawing documents for PCB contd	PDF/Video/Hand written
	18			notes
	10	4	Schematic Diagram using PCB	PDF/Video/Hand written
				notes
		5	Schematic Diagram using PCB contd	PDF/Video/Hand written
				notes
Unit 9		6	Art work	PDF/Video/Hand written
				notes
PCB drawing		1	Art work contd	PDF/Video/Hand written
	-			notes
		2	Stencil Drawing	PDF/Video/Hand written
				notes
		3	Stencil Drawing contd	PDF/Video/Hand written
	19			notes
		4	Marking Assembly Drawing (Pictorial and Part List)	PDF/Video/Hand written
				notes
		5	Marking Assembly Drawing (Pictorial and Part List)	PDF/Video/Hand written
				notes
		6	Assignment on PCB drawing	PDF/Google form
		1	Introduction to Nomography	PDF/Video/Hand written
Unit 10 Nomography	-			notes
		2	Different parameters of Nomography	PDF/Video/Hand written
				notes
		3	Measurements used in Nomography	PDF/Video/Hand written
	20			notes
	20	4	Nomography of differet electrical variations in realistic circuits	PDF/Video/Hand written
	_			notes
		5	Nomography of differet electrical variations in realistic circuits contd	PDF/Video/Hand written
				notes
		6	Assignment on Nomography	PDF/Google form
	Total	120		I
	Total	140		