

DRONACHARYA

College of Engineering

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: APS&H

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Basics of Electronics (ECE-101-F)

Name of Faculty with designation : Surender Dhaka (AP)

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January	08.01.2018 Monday	II-ECE/EEE	1	Semiconductor Physics : Basic concepts, Intrinsic and extrinsic semiconductors, diffusion and drift currents	
	10.01.2018 Wednesday	II-ECE/EEE	1	, p-n junction under open circuit, reverse bias and forward-bias conditions, p-n junction in the breakdown region		2 Questions
	15.01.2018 Monday	II-ECE/EEE	1	diode Ideal diode, terminal characteristics of junction		2 Questions
	17.01.2018 Wednesday	II-ECE/EEE	1	Amplifiers : Introduction of different types of amplifiers and their characteristics		2 Questions
	22.01.2018 Monday	II-ECE/EEE	1	Principle of amplification, Frequency response of RC coupled amplifiers, bandwidth and Concept of Cascaded Amplifiers		2 Questions
	24.01.2018 Wednesday	II-ECE/EEE	1	Feedback amplifiers, Effect of positive and negative feedback on amplifier gain and bandwidth.		2 Questions
	29.01.2018 Monday	II-ECE/EEE	1	Oscillators : Criteria for oscillations, Qualitative analysis of LC, RC		2 Questions
Feb	05.02.2018 Monday	II-ECE/EEE	1	Crystal Oscillators, Study of Wein Bridge Oscillators		2 Questions
	07.02.2018 Wednesday	II-ECE/EEE	2	Operational Amplifiers		2 Questions
	19.02.2018 Monday	II-ECE/EEE	2	Op-amps, its characteristics and its applications		2 Questions
	21.02.2018 Wednesday	II-ECE/EEE	2	Power Suppliers : Introduction and Working of Switched Mode Power Supply (SMPS), Voltage Regulator, Introduction to Inverters and UPS.		2 Questions
	26.02.2018 Monday	II-ECE/EEE	3	Digital Electronics : Binary, Octal and Hexadecimal number system and conversions, Boolean Algebra		2 Questions
	28.02.2018 Wednesday	II-ECE/EEE	3	Truth tables of logic gates (AND, OR, NOT) NAND, NOR as universal gates, Difference between combinational circuits and sequential circuits		2 Questions

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
Mar	05.03.2018 Monday	II-ECE/EEE	3	Introduction to flip-flops (S-R & J-K). Electronics Instruments : Role, importance and applications		2 Questions
	07.03.2018 Wednesday	II-ECE/EEE	3	Multimeter Digital & Analog, Cathode Ray Oscilloscope (CRO), Function/Signal Generator.		2 Questions
	12.03.2018 Monday	II-ECE/EEE	3	Multimeter Digital & Analog, Cathode Ray Oscilloscope (CRO), Function/Signal Generator.		2 Questions
	14.03.2018 Wednesday	II-ECE/EEE	4	Display : Seven segment display, Fourteen segment display, Dot matrix display LED Display		2 Questions
	26.03.2018 Monday	II-ECE/EEE	4	Introduction, Construction, Advantage of LEDs in electronics display		2 Questions
	28.03.2018 Wednesday	II-ECE/EEE	4	LCD Display : Introduction, Types of LCD display- Dynamic scattering and field effect type; Types of liquid crystal cells :- Transmitting type and reflective type; Advantage and disadvantage of LCD display		2 Questions
Apr	02.04.2018 Monday	II-ECE/EEE	4	Misc. Revision		
	04.04.2018 Wednesday	II-ECE/EEE	4	Misc. Revision		
	09.04.2018 Monday	II-ECE/EEE	4	Misc. Revision		
	11.04.2018 Wednesday	II-ECE/EEE	4	Misc. Revision		