

LESSON PLAN OF FUNDAMENTALSOFELECTRONICSENGINEERING

Course Code- TH 4(a)
(Common to 1st & 2nd sem)

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NO OF PERIODS /WEEK:2	CLASS NO & TOPICSS TO BE COVERED	REMARK
WEEK-1	UNIT I: Overview of Electronic Components & Signals: 1. Passive Active Components: Resistances, Capacitors, Inductors, 2. Concept and simple problems of Resistance, Capacitor & Inductor	
WEEK-2	3. Diodes, Definition, classification and Working of diode (PN junction, LED, Zener) 4. Transistors,	
WEEK-3	5. FET, 6. Types of FET,	
WEEK-4	7. MOS and CMOS 8. . MOS and CMOS Applications	
WEEK-5	9. Signals: DC/AC, voltage/current, 10. periodic/non-periodic signals,	
WEEK-6	11. Average, 12. rms, peak values,	
WEEK-7	13. different types of signal waveforms, 14. Ideal/non-ideal voltage/current sources, independent/dependent voltage current sources. (Definitions)	
WEEK-8	UNIT II Overview of Analog Circuits: 15. Operational Amplifiers-Ideal Op-Amp, 16. Practical opamp, Open loop and closed loop configurations	
WEEK-9	17. Application of Op-Amp as amplifier, 18. adder, differentiator and integrator	
WEEK-10	UNIT III Overview of Digital Electronics: 19. Introduction to Boolean Algebra, 20 Boolean Algebra	
WEEK-11	21. Electronic Implementation of Boolean Operations, 22 Gates-Functional Block Approach.	
WEEK-12	23. (Simple problems of Numbers system) 24. . (Simple problems of Numbers system)	
WEEK-13	25. Storage elements-Flip Flops- 26. Flip Flops-	
WEEK-14	27. A Functional block approach, Counters: 28. Ripple, Up/down and decade,	
WEEK-15	29. Introduction to digital IC Gates (of TTL Type). 30. . Introduction to digital IC Gates (of TTL Type).	

