

NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY SERGARH-756060, BALASORE (ODISHA) (Approved by AICTE& affiliated to SCTE&VT, Odisha)



LESSON PLAN

SUBJECT: TH-4(a)

Name Of The Faculty :- Er. NIRANJAN SAHU

Session :- 2024-25

Branch :-EE/EEE

Semester:- 2ND

Examination :- 2025 (S)

CHAPTER WISE DISTRIBUTION OF PERIODS

	CHAPTER WISE DISTRIBUTION OF PEI	11000	
SI.No.	Name of the chapter as per the Syllabus	No. of periods actually needed	
1	Overview of Electronic Components and Signals		
2 Overview of Analog Circuits		6	
3	Overview of Digital Electronics	13	
4	Electric and Magnetic Circuits		
5 AC Circuits		13	
6	Transformer and Machines	10	
	Total	60	

Mirrayon Sahu Sign of Faculty 31/1/25 Sign-of-H.O.D.

Discipline: EE/EEE	Semester:	Name of the Teaching Faculty: Er.NIRANJAN SAHU	Hai.
	2ND	SESSION: 2024-25	
		EXAMINATION : 2025 (S)	
Week	Class Day	Topics to be Covered	
1 st	1 st	Introduction of Electronics components, passive com	ponents li
	2 nd	Sereis And Parallel ckt of Resistors.	
	3 rd	Passive components like Inductor,Capacitors	
	4 th	Active components like PN juction Diode	
2 nd	1 st	Zener Diode ,Light Emitting Diode	
	2 nd	Transister	
2	3 rd	FET	
	4 th	Mos Devices	
	1 st	Signal And Active Devices	
3 rd	2 nd	frequency,Waveform	
	3 rd	Introduction of Analog Circuit	
	4 th	Basic of Opamp	
	1 st	Opamp Parameter	
4 th	2 nd	Opamp Configuration	
4	3 rd	Opamp Operating mode as addder ,substarction	
	4 th	Opamp Operating mode as differentiator, integrator	
	1 st	Introduction of Digital Electonics	
_th	2 nd	Decimal Number system, Binary Number system	The state of
5 th	3 rd	Octal and Hexadecimal Number System	
	4 th	Number Conversion like Binary to Decimal, Decimal to Binary	
	1 st	Boolean Laws and Theorems	
th.	2 nd	LOGIC GATES, Types of Logic Gates	
6 th	3 rd	FLIP FLOPS AND COUNTERS, Types of Flip Flop	
	4 th	S R flip flop,Clocked S R flip flop	
	1 st	D flip flop ,J K flip flop	
th	2 nd	T flip-flop	
7 th		Counters, Asynchronous Counter	
		Introduction to Integrated Circuits	
		Transistor Transistor Logic (TTL)	
+h	2 nd	Introduction of Electric and Magnetic Circuit	
8 th		Current /Voltage and Power/Energy	
		Electric Circuit Terminology	9 c'
	_	Kirchoff's Current Law (KCL), Kirchoff's Voltage Law (KVL)	
9 th	_	Parameters of magenetic Circuit like Magnetizing force, Flux dens	sitv
		Magnetomotive Force, Magnetic Circuits	
		Faraday's law,Self-inductance,Mutual Inductance	

Week	Class Day	Topics to be Covered	
10 th	1 st	ANALOGY BETWEEN ELECTRICAL AND MAGNETIC CIRCUITS	
	2 nd	Introduction of AC Circuits	
	3 rd	Important terms related with an alternating quantity	
	4 th	Important terms related with an alternating quantity	
11 th	1 st	Phase, Phase Difference and Power Factor	
	2 nd	A.C in Pure Resistors	
	3 rd	A.C in Pure Inductors	
	4 th	A.C in Pure Capacitors	
12 th	1 st	Resistance - Inductance (R-L) circuit	
	2 nd	Resistance - Capacitance (R-C) circuit	
	3 rd	Resistance, Inductance and Capacitance Circuit (R.L.C. Circuit)	
	4 th	AC POWER AND THREE PHASE CIRCUIT	
13 th	1 st	Star and Delta Connection	
	2 nd	Power Triangle	
	3 rd	Introduction of Transformer and Machines	
	4 th	Parts of a Transformer	
14 th	1 st	Types of Transformers	
	2 nd	EMF Equation of Transformer, Voltage Transformation ratio	
	3 rd	ELECTRIC MOTORS	
	4 th	Construction of DC Motor, Working Principle of DC Motor	
15 th	1 st	Types of DC Motors	
	2 nd	3ph AC Motors like Squirrel Cage,Wound Rotor	
	3 rd	Single phase AC Motors	
	4 th	Capacitor Split Phase AC Motors	

Nitragon Sahu Sign of Faculty 31/1/25

Sign of H.O.D.