			LESSON PLAN-2021-22 (SUMMER-2022)
	PLINE- TC	Semester- 4th	Name of teaching faculty-ER. ASHOK KUMAR PRUSTY
	SJECT-	No of days per week class alloted-5	SEM From date- 14/03/2022 No of weeks-16
W	/eek	Class day	Theory Topics
	3RD	11 (0) 2 2 21	Working principle, of Diode & its current equation, Specification anduse of p-n junction diode.
		14.03.2022	Breakdown of diode (Avlance&Zener Breakdown) and Construction,
		15.03.2022	working, Characteristics
		16.03.2022	Classification of Rectifiers and working of different types of Rectifiers- Half-Wave Rectifier, Full-Wave Rectifier (CT & BRIDGE type)
		17.03.2022	Classification of Do Rectifiers and
	4ТН	21.03.2022	Working principle of p-n-p and n-p-n transistor, different types of transistor connection (CB, CE and CC)& input and output characteristics of transistor in different connections.
		22.03.2022	Define ALPHA, BETA and GAMMA of transistors in various modes.  Establish the Mathematical relationship between them.
		23.03.2022	Basic concept of Biasing, Types of Biasing, h-parameter model of BJT, load line (AC &DC) and determine the Q-point.
		24.03.2022	Bosic Concept of Do Biasing, Types of
		26.03.2022	Types of Coupling, working principle and use of R-C Coupled Amplifier & Frequency Responses of R-C coupled Amplifier & draw the curve.
-		28.03.2022	Types of coupling Do Worcking priciple.
	5TH	29.03.2022	AUDIO POWER AMPLIFIERS: Classify Power Amplifier & Differentiate
		30.03.2022	AUDIO POWER AMPLIFIERDOS: Classify power
2		31.03.2022	AUDIO DOWER AMPLIFIEDORS: Clousify Power Working principle of different types of Power Amplifier (Class-A, Class)
		04.04.2022	AB, Class-B and Class-C & Class D amplifier).
		05.04.2022	Working premiple Do of different types
	2ND	06.04.2022	Construction and working principle and advantages of Push Pull
		07.04.2022	(Class-B) Amplifiers
0	Į.	11.04.2022	FIELD EFFECT TRANSISTOR (FET) ,FET & its classifications &Differentiate between JFET & BJT
		12.04.2022	Construction, working principle & characteristics of JEFT & Explain JEFT as an amplifier, parameters of JFET & Establish relation among JFET parameters.
	3RD		Construction, working Do preinciple &

		a the electification &
	14.04.2022	Construction & working principle MOSFET & its classification &
	14.04.2022	characteristics (Drain & Transfer)
	16.04.2022	Explain the operation of CMOS, VMOS & LDMOS
	18.04.2022	FEED BACK AMPLIFIER & OSCILLATOR: Define & classify Feedback Amplifier, principle of negative feedback with the help of block diagram, Types of feedback – negative &positive feedback.
4TH	19.04.2022	Types of negative feedback – voltage shunt, voltage series, current shunt& current series and characteristics voltage gain, bandwidth, input Impedance output impedance, stability, noise, distortion in
	20.04.2022	
	21.04.2022	Oscillator -block diagram of sine wave oscillator ,Types Requirement  of oscillationBarkhausen criterion  Oscillator - Colnitts - Co
	23.04.2022	RC oscillators – RC phase shift ,Crystal, LC oscillators – Colpitts , Hartley & Wien Bridge Oscillators :Circuit operation, circuit diagram, equation for frequency of oscillation & frequency stability
	25.04.2022	TUNED AMPLIFIER & WAVE SHAPING CIRCUIT: Defined and classify Tuned amplifier, Explain parallel Resonant circuit, Resonance  Curve & sharpness of Resonance
	26.04.2022	working principle of Single tuned Voltage& Double tuned Amplifier & its limitation
5TH	27.04.2022	Different type of Non-linear circuits - Clipper, diode series &shunt, positive& negative biased & unbiased and combinational clipper clippers circuit & its application.
	28.04.2022	Different type of Do Non-linear circuits.
	30.04.2022	Different type of Clamper circuit (positive & negative clampers) & its application
	02.05.2022	Working of Astable, Monostable & BistableMultivibrator with circuit diagram.
	04.05.2022	Working& use of Integrator and Differentiator circuit using R- C circuit(Linear), input / output waveforms & frequency response.
1ST	05.05.2022	OPERATIONAL AMPLIFIER CIRCUITS & FEEDBACK CONFIGURATIONS : Differential amplifier & explain its configuration & significance.
	07.05.2022	Block diagram representation of a typical Op- Amp, its equivalent circuits and draw the schematic symbol
	09.05.2022	Discuss the types of integrated circuits manufacturer's designations of ICs, Package types, pin identification and temperature and ordering information.
	10.05.2022	Define the following electrical characteristics input offset voltage, input offset current, CMMR, Large signal voltage gain, Slew rate.
2ND	11.05.2022	Draw and explain the Open Loop configuration (inverting, non- inverting Amplifier)

	12.05.2022	Draw the circuit diagram of the voltage series feedback amplifier and derive the close loop Voltage gain, gain of feedback circuits input resistance, and output resistance, bandwidth and total output offset voltage with feedback
40	14.05.2022	Drew the circluit Do diergreem of the
	16.05.2022	APPLICATION OF OPERATIONAL AMPLIFIER, TIMER CIRCUITS& IC voltage regulator: Discuss the summing scaling and averaging of inverting and non-inverting amplifiers
3RD	17.05.2022	APPLICATION OF DO OPERATIONAL.
3110	18.05.2022	DC & AC Amplifies using OP-AMP.
	19.05.2022	Integrator and differentiator using op-amp
	21.05.2022	Active filter and describe the filter design of fast order low Pass  Butterworth
	23.05.2022	Active filter and Do describe the
	24.05.2022	Concept of Zero-Crossing Detector using Op-Amp
ATL	25.05.2022	Concept of zerco- Do Cressing Dotector
4TH	26.05.2022	Block diagram and operation of IC 555 timer &IC 565 PLL& its applications
	28.05.2022	Block diagreem and operation of
	30.05.2022	Working of Current to voltage Convertor using Operational Amplifier
5TH	31.05.2022	working of curerent Do to voltage
	01.06.2022	Working of the Voltage to Frequency Convertor using Operational Amplifier
1ST	02.06.2022	working of the Do Voltage to
	04.06.2022	Working of the Frequency to Voltage Conversion using Operational Amplifier.
	06.06.2022	Operation of power supply using 78XX and 79XX,LM 317 Series with
	07.06.2022	Operation of power supply using 78XX and 79XX,LM 317 Series with their PIN configuration
2ND	08.06.2022	Operation of powerDo supply using 78XX
	09.06.2022	Functional block diagram & Working of IC regulator LM 723 & LM 317.
	11.06.2022	Functional block Do diagreem & working

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