ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT (AITAM) TEKKALI

(Approved by AICTE, Accredited by NBA Affiliated to JNTU, Kakinada)

STUDENT ATTENDENCE REGISTER

Name	: PRASAD.CH
Subject	: EDC - B -
Class	: EEE - II - (C)
Year	: (2014-2015) II-year.

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
2nd	1/9/14	Insulators, semiconductors	1	Blackboard		
		and metals classification using energy band diagram		"		
3rd	2/9/14	Mobility & conductivity.	1	"		
5th	3/9/14	electrons and holes in intrinsic semiconductor	1	"		
1Hr	4/9/14	Extrinsic semiconductor (P & N) type				
1Hr	5/9/14	Hall effect	1	"		
		Generation and re-combination of charges,				
2nd	8/9/14	Drift current, diffusion current-	1	"		
3rd	9/9/14	law of Junction, fermi level in Intrinsic and	1	"		
		Extrinsic semiconductors		"		
1Hr	10/9/14	Junction diode characteristics;	1	"		
1Hr	11/9/14	open ckt PN Junction. forward & reverse bias	1	"		
		current components in P-N Diode				
6th	12/9/14	Diode eq, V-I characteristics	1	"		
		Temperature dependence on V-I				
3rd	16/9/14	Step-graded Junction	1	"		
3rd	18/9/14	Diffusion capacitance and Diode resistance.	1	"		
1Hr	19/9/14	Energy band diagrams of P-N- Diode.	1	"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
2nd	14/9	UNIT-II Special diode Avalanche and Zener	2	Black Board		
		Break Down, Zener char.		"		
3rd	15/9	Tunnel Diode, char with the help of Energy Band	2	"		
		Diagram, varactor Diode				
5th	24/9	LED. Rectifiers and filters.	2	"		
1st	25/9	Half wave rectifier ripple factor,	2	"		
		full wave rectifier (with and without TUF).		"		
7th	26/9	Harmonic components in a rectifier ckt, Inductor	2	"		
3rd	29/9	filter, capacitor filter L-section filter	2	"		
3rd	03/9	π-section -filter Multiple -L- section and	2	"		
5th	8/10	multiple-π- section filter.	2	"		
3rd	13/10	comparision of various filters ckt in terms	2	"		
	29/10	of ripple factors, simple ckt & regulator				
		using zener diode.				
		UNIT-III		Black Board		
5th	29/10	Transistors:- Junction transistor,	3	"		
1st	31/11	Transistor current components Transistor as an amplifier	3	"		
2nd	1/11	Characteristics of Transistor in common Base and	3	"		
		common emitter - configuration.				
5th	8/11	Analytical expression for transistor char.	3	"		
		Punch through/Reach Through				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
4th	11/11	Photo Transistor	3	Black Board		
	"	Typical transistor Junction voltage	3	"		
1st	12/11	FET :- field effect Transistor	3	"		
		JFET - characteristics (Qualitative & Quantitative)		"		
2nd	13/11	Small signal models of JFET, MOSFET class (Enhancement and depletion mode)	3	"		
3rd	14/11	Symbols & notation	3	"		
		Introduction to SCR and UJT and their class				
		UNIT-II				
5th	15/11	Transistor Biasing and Thermal Stabilizing	4	"		
1st	18/11	Transistor Biasing and Thermal Stabilization	4	"		
2nd	19/11	operating point, Basic Stability, collector to Base Bias	4	"		
3rd	20/11	Self Bias amplifier	4	"		
5th	21/11	Stabilization against variation in V_{BE}, and β for fixed bias circuits,	4	"		
1st	22/11	Stabilization factors (S, S', S''), Bias compensation,	4	"		
2nd	25/11	Thermal runaway Thermal Stability	4	"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
3rd	11/12	Small signal low frequency Transistor models.	4	Black Board		
		Two port devices and the hybrid model	4	4		
		Transistor hybrid model				
5th	13/12	Determination of the parameters from Characteristics	4	4		
		Measurement of the parameters,				
1st	19/12	conversion formulas for the parameters	4	4		
		of three transistors Configurations.				
		Comparision of Transistor Amplifier configuration				
		UNIT-V				
3rd	23/12	Feedback Amplifiers and Oscillators.	5	4		
5th	24/12	classification of Amplifiers, feed	5	4		
1st	26/12	back concept. Transfer gain with feed back	5	4		
		General characteristics				
		of negative feedback amplifiers.				
3rd	29/12	effect of feed back on input and o/p	5	4		
		resistances,				
5th	31/12	Voltage series and Voltage shunt,	5	4		
1st	2/1/15	current series current shunt	5	4		
2nd	5/1/15	current shunt feed back amplifiers	5	4		
		with discrete components				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
		conditions for oscillations		Black Board		
2nd	5/11/15	RC-phase shift oscillator	5	4		
		with Transistor and FET				
3rd	6/11/15	Hartley and colpitts oscillators.	5	4		
		Wien bridge oscillators.				

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