ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT (AITAM) TEKKALI

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

STUDENT ATTENDENCE REGISTER

Name	:	T. Jagan Mohan Rao
Subject	:	EDC
Class	:	II / IV
Year	:	2014 – 2015

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
3rd	3/9/14	Review of Semiconductor Physics	I			
		Insulators, Semiconductors				
		Metals classifications		C.R		
		using Energy Band diagrams				
1st	4/9/14	Mobility and conductivity		C.R		
2nd	6/9/14	electrons & holes		C.R		
		in intrinsic semiconductor	I			
2nd	8/9/14	P & N type semiconductor	I	C.R		
2nd	8/9/14	Hall effect derivation	I			
3rd	9/9/14	Generation & Recombination		C.R		
		of charges				
3rd	10/9/14	Drift current & diffusion		C.R		
		current				
1st	13/9/14	Law of Junction	I	C.R		
2nd	15/9/14	Fermi level of intrinsic				
		Extrinsic semiconductor		C.R		
		Junction diode				
		characteristics	I	C.R		
3rd	16/9/14	open-circuited PN Junction				
		forward bias & reverse		C.R		
		Bias	I	C.R		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
2nd	22/9/14	Constant Components in PN diode.	I	C.R		
		Diode Equation		C.R		
		Volt-Amper characteristic	I	C.R		
		Temperature dependance on V-I characteristic		C.R		
4th	22/9/14	Step graded Junction				
		Diffusion Capacitance		C.R		
		diode Resistance				
		(Static & Dynamic)		C.R		
2nd	23/9/14	Energy band diagram				
3rd	24/9/14	of PN diode.				
		Special diodes	II	C.R		
3rd	29/9/14	Avalanche & zener				
		Breakdown Zener		C.R		
		Characteristics		C.R		
2nd	29/9/14	Tunnel diode				
		characteristics with		C.R		
		the help of Energy		C.R		
		band diagram				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
3rd	30/9/14	Varactor diode, LED		Blackboard (C.R)		
		rectifiers & filters				
4th	8/10/14	Hwr, ripple factor	II	C.R		
		FWR (with & without)				
		Harmonics		C.R		
6th	7/11/14	Filters L-filter		Blackboard C.R		
		C-filter with	II			
2nd	10/11/14	derivation of γ factor				
3rd	12/11/14	LC filter, CLC filter		Blackboard C.R		
		problems				
1st	13/11/14	Simple circuit of a	II	Blackboard C.R		
		Regulator using				
		Zener diode		Protector		
6th	14/11/14	comparison of	II	Blackboard C.R		
		various filters				
2nd	19/11/14	Transistors (Introduction)	III			
		Transistor current		Protector		
		components				
1st	20/11/14	Transistor as an		Blackboard C.R		
		amplifier				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1st hr	01/11/14	classification of Transistors	III	Black board		
		characteristics of		"		
3rd	24/11/14	Transistors fix C-B		C-R		
		characteristics of				
1st	27/11/14	Transistor in C.E	III	Blackboard		
		Expressions for				
		Transistor characteristics		Blackboard		
1st 2nd hr	28/11/14	pl to Transistor	III	Blackboard		
1st	4/12/14	Field effect Transistors	III & IV	Blackboard		
		small signal Model of JFET		C.R		
1st 2nd	5/12/14	MOSFET characteristics	III			
		Types (Enhancement)		Projector		
		depletion Mode		Blackboard		
2nd	6/12/14	symbols of MOSFET	III	C.R		
		Introduction to SCR				
2nd	15/12/14	UJT & their	III	Blackboard		
		characteristics				
		Transistor Biasing &	IV	C.R		
3rd	16/12/14	Thermal stabilization Introduction to				
		Biasing of Transistor				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
5th	17/12/14	Thermal Stabilization	IV	C.R		
		Basic stability				
		different types of		C.R		
		Amplifiers				
		collector to BEes		Problem		
		Amplifier,	IV	C.R		
1st	18/12/14	Self BEes Amplifiers		C.R		
		different types of	IV			
		stability factors		C.R		
		Thermal Runaway				
		Thermal Stability	IV	C.R		
		Small Signal low frequency Transistor Models :-		C.R		
1st	19/12/14	Two-port device	IV	C.R		
		Hybrid Model Transistor				
		determination of		C.R		
2nd	20/12/14	h-parameters from characteristics				
		Conversion formulas	IV	C.R		
1st	22/12/14	of three Transistor				
		Configurations				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
		Comparision of transistor		C.L		
		Amplifier configuration	IV			
		feedback Amplifiers	V	C.L		
		and oscillators				
3rd	24/12/14	Introduction to		Powerpoint		
		feedback amplifiers	V			
		classification of		C.L		
		Amplifiers	V			
1st	27/12/14	feedback concept				
		Transfer Gain	V	C.L		
		characteristics of				
1st & 4th	29/12/14	negative feedback				
		amplifiers, effect of	V	C.L		
		Feedback.				
2nd	29/12/14	I/p & o/p Resistance	V			
		voltage series		practical		
		Voltage shunt, current	V			
2nd	30/12/14	series & current shunt		C.L		
		feedback amplifiers	IV			
		Hartley oscillators	V			
		R-C phase oscillator				

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