ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT (AITAM) TEKKALI

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

STUDENT ATTENDENCE REGISTER

Name	:	T. Ramesh
Subject	:	Electrical Machines-I
Class	:	II EEE-A
Year	:	2014 - 2015

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
5	01-09-14	Introduction to Electrical Machines & Energy Conversion.	I	CR		
3	02-09-14	Introduction to electro mechanical energy conversion	I	CR		
2	03-09-14	Force & Torque developed in magnetic field system.	I	CR		
4	08-09-14	Energy Balance equation Force in a single excited system.	I	CR		
5	08-09-14	Determination of magnetic force. co-energy	I	CR		
3	09-09-14	Doubly excited magnetic field System.	I	CR		
2	10-09-14	DC generator working principle & Construction	I	CR		
4	10-09-14	EMF equation action of commutator	I	CR		
5	15-09-14	lap winding & wave winding.	I	CR		
3	16-09-14	Types of DC generators	I	CR		

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
2	17-05-14	Introduction to Armature Reaction, Demagnetizing Ampere turns	II	CR		
4	12-05-14	Cross magnetizing Ampere turns	II	CR		
3	23-05-14	Methods to improve armature Reaction	II	CR		
2	24-05-14	Problems.	II	CR		
4	24-05-14	Commutation process	II	CR		
5	29-05-14	Derivation for Reactance voltage	II	CR		
3	07-10-14	methods of improving Commutation	II	CR		
2	08-10-14	losses & efficiency	II	CR		
4	08-10-14	problems	II	CR		
3	28-10-14	problems	II	CR		

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
2	27-10-14	Magnetisation characteristics OCC	III	CR		
4	29-10-14	build up of EMF Critical field Resistance,	III	CR		
5	03-11-14	Critical speed & problems	III	CR		
3	04-11-14	Causes for failure & self-excite & remedial Measures	III	CR		
2	05-11-14	Internal & External characteristics of shunt series & Compound generator Applications	III	CR		
4	05-11-14	problems..	III	CR		
5	10-11-14	Necessity of parallel operation, Conditions	III	CR		
3	11-11-14	parallel operation of DC shunt generators	III	CR		
		Load Sharing		C		
2	12-11-14	parallel operation of DC Compound generators	III	CR		
4	12-11-14	use of equalizer bar & Cross Connection of field windings	III	CR		

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
5	17-11-14	principle operation of DC Motor, Back EMF	IV	CR		
3	18-11-14	Torque derivation Shaft torque & loss torque	IV	CR		
2	19-11-14	characteristics of DC shunt motor	IV	CR		
4	19-11-14	characteristics of Series & Compound motor	IV	CR		
2	26-11-14	Armature Reaction & Commutation, losses	IV	CR		
4	26-11-14	Efficiency & problems	IV	CR		
5	01/12/14	Speed control of DC motor (Armature voltage control)	IV	CR		
3	05-12-14	field flux control	IV	CR		
2	10-12-14	Need & Necessity Starting principle of 3-point Starters	IV	CR		
4	10-12-14	Applications of DC motors	IV	CR		

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
3	16-12-14	Introduction of Testing of DC Machines, Brake Test	I	CR		
2	17-12-14	Swinburne's Test problems	I	CR		
4	17-12-14	Hopkinson's method	I	CR		
5	22-12-14	Field's Test for Series machine	I	CR		
3	23-12-14	Retardation Test	I	CR		
2	24-12-14	Separation of losses	I	CR		
4	24-12-14	problems	I	CR		
3	30-12-14	problems	I	CR		

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