

COLLEGE OF TECHNOLOGICAL UNIVERSITIES
ELECTRICAL AND POWER ELECTRONICS (44)
 DEPARTMENT OF ELECTRICAL ENGINEERING
 UNIVERSITY OF PHOENIX
 B.Sc. 3rd Semester

Type of Course: Engineering Sub-course: **ELECTRICAL**

Prerequisites: N/A

Reference: N/A

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Scheme					Total Marks
L	T	P		Theory Marks			Practical Marks		
W	W	W	W	W	W	W	W	W	W
1	1	1	4	100	100	100	100	100	100

L: Lectures; T: Tutorial; P: Practical; W: Weekly; C: Credits; ESE: End Semester Examination; PE: Progress Assessment

Course:

No. / No.	Topic	Teaching Hrs.	Examinable Hrs.
1.	Module 4: Electromechanical Energy Conversion: Principles, Single Phase Induction Motors: System and Double Fed Induction Motor system, Physical concept of torque production: Electromagnetic torque and Mechanical torque. Concepts of Converter based generation in Synchronous Machines: Structure of Mechanical system, Poles, pitch, EMF Conversion (EMF as full pitched and Converter EMF as a short pitched coil), EMF angles. Construction factor, Pitch factor, EMF produced by distributed windings, EMF of a coil, EMF of single phase distributed winding, EMF constants of 2 pole synchronous machine.	10	10
2.	Module 5: DC Machines: Working principle, construction and methods of excitation. Separate winding: fundamentals of simple lap and wave winding; EMF generation: EMF equation – methods of excitation – separately and self-excited – block series, compound – various reactions – effects of various reactions – demagnetizing & cross magnetizing components – commutating inductance – armature reaction – commutation – methods to improve commutation – voltage building – use of interpoles – load characteristics – losses and efficiency – power flow diagram: parallel operation – applications of EMF generation. EMF Motor: Principles of operation – back EMF – characteristics – torque equation – losses and efficiency – power flow diagram.	10	10

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M Walker



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