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Course Instructor	Qasim Al Azze		
E-mail	Qasm_eng@yahoo.com		
Title	Electrical Machines and Drives		
Course Coordinator	3 hours per week		
Course Objective	Introduction to control and drives of Dc and Ac Machines, its application, Understanding Power Electronic as Drives, Introduction to Single Phase and Special Machines		
Course Description			
Textbook	<p>Recommended Textbooks :</p> <ul style="list-style-type: none"> ➤ S.Dewan,G.Slemon & A.Straughen Power Semiconductor Drives John Wiley Pub. ➤ A.Fitzgerald,C.Kingsley & A.Kusko Electric Machinery McGraw-Hill Pub. ➤ ELECTRICAL TECHNOLOGY B.L. THERAJA A.K. THERAJA 		
Course Assessments	First Semester	Second Semester	Final Exam
	As(20%)	As(20%)	As(60%)
General Notes			

Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
1	29/9/2016	The Basic Generalized Machine Theory		
2	6/10/2016	Generalized Machine Equation of Single coil, Double Coils, and Three Coils		
3	13/10/2016	Equivalent circuit, performance calculation.		
4	20/10/2016	Introduction to Machines Drive		Quiz
5	27/10/2016	Electrical Drive Mode, Four Quadrant Operation		
6	3/11/2016	. Torque-Speed Characteristic (Mechanical Characteristic) and Speed Variation Electrical Speed Control DC Motor		
7	10/11/2016	Electrical Speed Control of Shunt Separated Excited DC Motor Series DC Motor		
8	17/11/2016	Electrical Breaking of DC Motor Types, and Methods		First Exam
9	24/11/2016	Basics of Industrial Motor Control		
10	1/12/2016	AC Static Switch		Quiz

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Stage: Forth
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Place of work; College of Engineering,
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Machines Engineering

11	8/12/2016	DC Static Switch		
12	15/12/2016	DC Drive, Machines Control		
13	22/12/2016	Traction Drive		
14	29/12/2016	AC Drive, Machines Control		
15	5 /1 /2017	Choice Of Electrical Drives		Quiz
16	12/1/2017	status of DC & AC drives		
17	19/1/2017	V/f Control Speed		
18	26/1/2017	AC voltage controllers & soft start, variable frequency control from voltage and current sources		Second Exam
19	2/2/2017	variable frequency control from voltage and current sources		
<i>Half Year Break</i>				
21	23/2/2017	Introduction to single phase machine and special machine		
22	2/3/2017	Double Revolving Field Theory		
23	9/3/2017	Single-Phase Induction Motor		
24	16/3/2017	Single Phase Induction Motor Capacitor Type		
25	23/3/2017	AC Series Motors		
26	30/3/2017	Universal motor		
27	6/4/2017	Hysteresis Motor		
28	13 /4/2017	Stepper Motor		

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29	20/4/2017	Linear Motor		Quiz
30	27 /4/2017	Single Phase Synchronous Motors , and Applications		
31	4/5/2017	Repultion Motor.		
32	11/5/2017	Permanent Magnet Machines		
33	18/5/2017	Apply Basic Knowledge of Energy to Describe Renewable and Alternative Energy		
34	25/5/2017	Analyses the Characteristics of Energy Storage Devices		

INSTRUCTOR Signature:

Assist Lecturer Qasim Al Azze