



COURSE SPECIFICATIONS (2011-2012)

Benha University

Faculty of Engineering at Shobra

Electrical Engineering Department

c.5) Use computational facilities and techniques, measuring instruments, workshops and laboratories equipment to design experiments, collect, analyze, and interpret results.

c.13) Design and perform experiments, as well as analyze and interpret experimental results related to electrical power and machines systems.

d- General and Transferable Skills

d.1) Collaborate effectively within multidisciplinary team.

3- Contents

No.	Topic	No. of hours	ILO's	Teaching / learning methods and strategies	Assessment method
1	Control of DC motors, control of BLDC motors, control of single phase IM.	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
2	Control of DC motors, control of BLDC motors, control of single phase IM.	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
3	Control of DC motors, control of BLDC motors, control of single phase IM.	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
4	Control of DC motors, control of BLDC motors, control of single phase IM.	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
5	Control of DC motors, control of BLDC motors, control of single phase IM.	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training



COURSE SPECIFICATIONS (2011-2012)

Benha University

Faculty of Engineering at Shobra

Electrical Engineering Department

				study, Assignments	Oral Exam, Practical training
6	Power systems & control	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
7	Power systems & control	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
8	Mid-Term Exam				
9	Power systems & control	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
10	Power systems & control	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
11	High Voltage testing	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
12	High Voltage testing	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
13	High Voltage testing	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case	Home Assignments, Quizzes, Oral Exam, Practical training



COURSE SPECIFICATIONS (2011-2012)

Benha University

Faculty of Engineering at Shobra

Electrical Engineering Department

				study, Assignments	
14	High Voltage testing	4	a14, b14, c5, c13, d1	Lectures, Practical training / laboratory, class activity, Case study, Assignments	Home Assignments, Quizzes, Oral Exam, Practical training
15	Final Exam				
16					

4- Teaching and Learning Methods

Lectures
Practical training / laboratory
Seminar / workshop
Class activity
Case study
Assignments / homework

5- Student Assessment Methods

Assignments to assess knowledge and intellectual skills.
Quiz to assess knowledge, intellectual and professional skills.
Mid-term exam to assess knowledge, intellectual, professional and general skills.
Oral exam to assess knowledge and intellectual skills.
Final exam to assess knowledge, intellectual, professional and general skills.

Assessment Schedule

Assessment 1 on weeks 2, 5, 9, 11
Assessment 2 Quizzes on weeks 4, 6, 10, 12
Assessment 3 Mid-term exam on week 8
Assessment 4 Oral Exam on week 14
Assessment 5 Final exam on week 15



COURSE SPECIFICATIONS (2011-2012)



Benha University

Faculty of Engineering at Shobra

Electrical Engineering Department

Weighting of Assessments

- 10% Home assignments
- 15% Mid-term examination
- 25% Oral & experimental examination
- 50% Final-term examination
- 100% Total

6- List of References

Course notes

Course notes prepared by instructor.

Essential books

Acceptance Testing Specifications for Electric Power Distribution Equipment and Systems, NETA Standards Review Council

Recommended books

Fluke, 1550B MegOhmMeter, user manual

7- Facilities required for teaching and learning

Lecture room equipped with overhead projector

Presentation board, computer and data show

Laboratory

Course coordinator: Prof. Dr. M. Abouelsaad

Course instructor: Mohammed Eissa Elfaraskoury

Head of Department: Prof. Dr. Mousa Abd-Allah

Date:1/1/2012

وحدة ضمان الجودة