



Benha University Faculty of Engineering at Shobra Electrical Engineering Department

A- Basic Information

Course Title: Electrical testing (2)	Code: EPE121	
Lecture: - Tutor	ial: - Practical: 4	Total: 4
Program on which the course is gi	ven: B.Sc. Electrical Engineering (Power)	
Major or minor element of progra	m: N. A.	
Department offering the program	Electrical Engineering Department	
Department offering the course:	Electrical Engineering Department	
Academic year / level:	first Year / second Semester	
Date of specifications approval:	10/5/2006	

B- Professional Information

1- Overall aims of course:

By the end of the course the students will be able to:

- i. Understanding of basic principles of electronics.
- ii. To provide students with a sound understanding of modern logic circuits.

2- Intended learning outcomes of course (ILOs)

By completion of the course, the student should be able to: Graduating engineers should demonstrate knowledge and understanding of the following:

a- Knowledge and Understanding:

A2-Fundamental concepts, principles, theories and applications of basic engineering / electrical engineering courses.

b- Intellectual Skills

b2-Use of scientific principles in development of engineering and/or electrical engineering solutions to practical problems.

c- Professional Skills

c4-Proper use of workshop, laboratory and measuring equipment to generate valuable data.

d- General and transferable Skills

- d.1) Collaborate effectively within multidisciplinary team.
- d.2) Work in stressful environment and within constraints.
- d.3) Communicate effectively.

3- Contents





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T	Copic No.	Topic	No. of Hours	ILO,s	Teaching and learning methods	Assessment
	1	1- Experiments: Fundamentals of Electronics	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	2	1- Experiments: Fundamentals of Electronics	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	3	2- Logic Circuits.	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	4	2- Logic Circuits.	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	5	3- Measuring & Testing devices	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	6	3- Measuring &Testing devices	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	7	3- Measuring & Testing devices	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	8	4- Methods of Measuring	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	9	4- Methods of Measuring	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	10	5- Methods of Testing Soft wares.	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	11	5- Methods of Testing Softwares.	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes





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	12	5- Methods of Testing Soft wares.	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	13	6-Components identifications.	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
	14	6-Components identifications.	4	A2,b2, c4	Practical, training, Class activity, Case study, Assignments / homework	Practical work, oral, examination, quizzes
		Total	56			

4- Teaching and learning methods

Lectures Practical training Class activity Case study Assignments / homework

5- Student assessment methods

Assignments to assess knowledge and intellectual skills. Quizes. Mid-term exam.

- Oral exam.
- Final exam.

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 Practical and Oral Exam on week 14 Assessment 5 Final exam on week 15

Weighting of assessments

05% Home assignments

- 05% Quizzes
- 10% Mid-term examination
- 20% Practical and Oral examination
- 50% Final-term examination
- 100% Total

6- List of references

Course notes

Course notes prepared by instructor.

- 6.1- Course Notes by
- 6.2- Required Books (Text Books)





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- 6.3- Recommended Books
- 6.4- Periodicals, Web Sites, ... etc

7- Facilities required for teaching and learning

Lecture room equipped with overhead projector Presentation board, computer and data show

Course coordinator:	Prof. Dr. Nagat Abdelgawad
Course instructor:	Prof. Dr. Nagat Abdelgawad + A. Prof. Dr. Nasser Buomy

Head of Department:

Prof. Dr. Mousa A Abd-Allah

Date: March 20, 2012

