



Course Specifications												
Program (s) on which this course is given:				Electronics & Electrical Communications Engineering								
Major or Minor element of programs:				Major								
Department offering the program:				Electronics	s & Electric	cal Co	ommun	cations	Engir	neering		
Department offering the course:				Electronics	s & Electric	cal Co	ommun	cations	Engir	neering		
Academic year / Level:				First						0		
Date of original/modified specification				2003/								
approval:				2003/								
Semester of course offering:				Second Sen	nester							
A- Basic Information												
1.a. Title:	Circuits	(1)		1.b. Cod		ode:	ELC 102 I			B		
2. Units/Credit	2 a Lecture		2	2.h. T	utorial	2	2 c. Practical			2.d. 4		
hours per week:	2.0		_	2.07.1	utoriui	_	2.c. 1 lactical			Total		
B- Professional Information												
1. Overall Aims Course:	s of the Analysis and		synthesis of	synthesis of passive electric circuits								
		a) K	Inowledg	ge and Under	rstanding							
2 Intended I	aamina		1. Expl	ain the conce	pt of couplir	ng in e	electric o	circuits ((1.7).			
2. Intended Learning – Outcomes of Course _ (ILOs):		b) Iı	ntellectu	al Skills								
		1 Analyze coupled circuits (3.1)										
			1. Anal	yze coupled o	circuits (3.1)).						
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3. Contents			 Anal Anal Anal 	yze coupled o yze poly-pha yze circuits v	circuits (3.1) se circuits (3 vith depende). 3.1). ent sou	irces usi	ng mesł	n and n	ode analysis	(3.1).	
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3. Contents Topic D.C. circuits			1. Anal 2. Anal 3. Anal	yze coupled o yze poly-pha yze circuits v Total	bircuits (3.1) se circuits (3 with depende hours). 3.1). ent sou	irces usi	ng mesh tures	n and n	ode analysis Tutorial / 1 7.	(3.1). Practical	
3. Contents Topic D.C. circuits A.C. circuits			1. Anal 2. Anal 3. Anal	yze coupled o yze poly-pha yze circuits v Total	bircuits (3.1) se circuits (3 with depende hours 5 5). 3.1). ent sou	irces usi Lec 7 7	ng mesh tures .5 .5	n and n	ode analysis Tutorial/ 1 7.5	(3.1). Practical	
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-Assessment 3; Final-Exa	m	15				
5.c. Weighting of Assessments						
-Mid-Term Examination		20 %				
-Final-term Examination		70 %				
-Class test		10 %				
-Total		100 %				
6. List of References						
6.a. Course Notes						
6.b. Essential Books (Text Books)						
• J. W. Nilsson and S. A. Riedel, Electric Circuits, Prentice Hall, 2005.						
6.c. Recommended Books.						
C. Alexander and M. Sadiku, Fundamental of Electric Circuits, Mc-Graw Hill, 2006.						
6.d. Periodicals, Web Sites, etc: N/A						
7. Facilities Required for Teaching and Learning						
- Small group of students.						
- Up-to-date references in library.						
Course Coordinator:	Dr. Zaher N.M. El-Sayed					
Head of Department:	Prof. Dr. Mahmoud El-Hadidi					
Date:	2011					