



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

Al Alamein
International University**Electronics Engineering &
Communications Program****برنامج هندسة الإلكترونيات والاتصالات****Study Plan****الخطة الدراسية**

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
١	MEC011	Engineering Drawing (1)	2	0	3	0	5	3	165	6
	PHY111	Physics I	2	2	0	0	4	3	150	6
	MAT111	Mathematics I	3	0	1	0	4	3	150	6
	MAT122	Statics	3	1	1	0	5	3	165	6
	CHE142	Engineering Chemistry	2	3	0	0	5	3	165	6
	UC1	University Requirement (1)	2	0	0	0	2	2	90	4
							25	17	885	34
٢	MEC012	Engineering Drawing (2)	2	3	0	0	5	3	165	6
	MEC041	Production Engineering	2	3	0	0	5	3	165	6
	PHY211	Physics II	2	2	0	0	4	3	150	6
	MAT112	Mathematics II	3	0	1	0	4	3	150	6
	MAT121	Dynamics	3	1	1	0	5	3	165	6
	UC2	University Requirement (2)	2	0	0	0	2	2	90	4
							25	17	885	34
٣	MEC151	Thermal Energy	2	0	2	0	4	3	150	6
	CSE014	Structured Programming	2	3	0	0	5	3	180	6
	ELE111	Electrical Circuits	2	1	2	0	5	3	165	6



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	MAT312	Differential Equations	2	0	2	0	4	3	150	6
	UC3	University Requirement (3)	2	0	0	0	2	2	90	4
							20	14	735	28
٤	ELE112	Electronic circuits	2	1	2	0	5	3	165	6
	MEC255	Energy Resources	2	1	2	0	5	3	165	6
	ELE212	Electrical Measurements & Measuring Instruments	2	2	1	0	5	3	165	6
	PHY322	Solid state physics	2	2	0	0	4	3	150	6
	ELE211	Electromagnetic Fields	2	1	2	0	5	3	165	6
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
							26	17	900	34
٥	MAT131	Probability and Statistics (1)	2	1	2	0	5	3	195	6
	ELE213	Industrial Electronics	2	1	2	0	5	3	165	6
	ELE234	Logic Design	2	1	2	0	5	3	165	6
	ELE271	Electrical Machines	2	1	2	0	5	3	165	6
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
							22	14	780	28
٦	ELE313	Electromagnetic Waves	2	1	1	0	4	2	120	4
	ELE233	Control Engineering (Automatic Control Systems)	2	1	2	0	5	3	165	6
	ELE272	Electrical Power Engineering	2	1	2	0	5	3	165	6
	ELE321	Signals & Systems Fundamentals	2	0	2	0	4	3	150	6
	ELE335	Microprocessor-Based Automated Systems	2	2	1	0	5	3	165	6
	CSE132	Computer Architecture & Organization	2	1	2	0	5	3	165	6
							28	17	930	34
٧	ELE432	Digital Signal Processing	2	1	2	0	5	3	165	6
	ELE232	Fundamentals of Communication Systems (Analog	2	1	2	0	5	3	165	6



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		Comm)								
	ELE231	Introduction to Embedded Systems	2	1	2	0	5	3	165	6
	MAT411	Complex, Special Functions & Numerical Analysis	3	2	0	0	5	4	195	8
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4
	UE2	Elective University Requirement (2)	2	0	0	0	2	2	90	4
							24	17	870	34
٨	ELE312	Analog Circuits	2	2	1	0	5	3	165	6
	ELE314	Waveguides	2	1	2	0	5	3	165	6
	ELE337	Analog & Digital Communication Systems (Digital Comm)	2	1	2	0	5	3	165	6
	ELE391	Industrial Project	1	6	0	0	7	3	195	6
	E1	Elective Course (1)	3	1	1	0	5	3	165	6
	UE2	Elective University Requirement (2)	2	0	0	0	2	2	90	4
							29	17	945	34
٩	ELE422	Antenna Engineering & Propagation	2	0	1	0	3	2	105	4
	ELE338	Wireless Communication Networks	2	1	2	0	5	3	165	6
	ELE488	Digital Integrated circuits	2	1	1	0	4	2	120	4
	ELE491	Graduation project 1	1	6	0	0	7	3	195	6
	E2	Elective Course (2)	3	1	1	0	5	3	165	6
	E3	Elective Course (3)	3	1	1	0	5	3	165	6
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
							31	18	1005	36
١٠	ELE492	Graduation project 2	1	6	0	0	7	3	195	6
	E4	Elective Course (4)	3	1	1	0	5	3	165	6
	E5	Elective Course (5)	3	1	1	0	5	3	165	6



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	E6	Elective Course (6)	3	1	1	0	5	3	165	6
	ELE421	Optoelectronics	2	1	2	0	5	3	165	6
	UE3	Elective University Requirement (3)	2	0	0	0	2	2	90	4
							29	17	945	34
							259	165	8880	330

Elective (E1)

- ELE235 Industrial Networks
- ELE311 Electrical Circuits and Machines (advanced)

Elective (E2, E3, E4, E5, E6)

- ELE381 Power Electronics and motor drives
- ELE443 Modern Communication Systems
- ELE444 Satellite Communication Systems
- ELE445 Selected Topics in Communication Systems
- ELE456 Selected Topics in Signal Processing
- ELE472 Information Theory & Coding
- ELE487 Selected Topics in Telecommunication Networks
- ELE499 Special Topic
- CSE015 Object Oriented Programming



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CSE111	Data Structures
CSE261	Computer Networks
CSE233	Operating Systems