



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Sustainable Energy Program

برنامج الطاقة المستدامة

Study Plan

الخطة الدراسية

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
1	GES111	Physical Geology	2	2	1	0	5	3	165	6
	BIO131	Biology I	2	2	0	0	4	3	150	6
	CHE111	Organic Chemistry	2	2	0	0	4	3	150	6
	PHY111	Physics I	2	2	0	0	4	3	150	6
	MAT111	Mathematics I	3	0	1	0	4	3	150	6
	UC1	University Requirement (1)	2	0	0	0	2	2	90	4
							23	17	840	34
2	CHE141	Physical Chemistry	2	2	0	0	4	3	150	6
	PHY119	Laboratory Safety & good laboratory practice	1	2	0	0	3	2	105	4
	MAT112	Mathematics II	3	0	1	0	4	3	150	6
	MAT131	Probability and Statistics I	2	1	2	0	5	2	105	4
	E1	Elective Course (1)	2	2	0	0	4	3	150	6
	UC2	University Requirement (2)	2	0	0	0	2	2	90	4
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
							24	17	840	34
3	BIO241	Biology II	2	2	0	0	4	3	150	6
	CHE221	Inorganic Chemistry	2	2	0	0	4	3	150	6
	PHY211	Physics II	2	2	0	0	4	3	150	6



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	E2	Elective Course (2)	2	2	0	0	3	2	105	4
	UC3	University Requirement (3)	2	0	0	0	2	2	90	4
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
	UE1	Elective University (1)	2	0	0	0	2	2	90	4
							21	17	825	34
4	CSE014	Structure Programming	2	3	0	0	5	3	150	6
	PHY231	Electromagnetic wave	2	2	0	0	4	3	150	6
	PHY232	Modern Physics	2	2	0	0	4	3	150	6
	E3	Elective Course (3)	1	2	0	0	3	2	105	4
	E4	Elective Course (4)	1	2	0	0	3	2	105	4
	UE2	Elective University (2)	2	0	0	0	2	2	90	4
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
						23	17	840	34	
5	PHY311	Introduction to quantum mechanics	1	2	0	0	3	2	105	4
	PHY321	Crystallography & bonding	1	2	0	0	3	2	105	4
	PHY361	Fundamentals of Energy Systems	2	2	0	0	4	3	150	6
	PHY362	Energy Conversion System	1	2	0	0	3	2	105	4
	PHY371	Astronomy & Astrophysics	2	2	0	0	4	3	150	6
	E5	Elective Course (5)	2	2	0	0	4	3	150	6
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4
						23	17	855	34	
6	PHY322	Solid state physics	2	2	0	0	4	3	150	6
	PHY323	Solar Photovoltaic Energy Conversion I	1	2	0	0	3	2	105	4
	PHY341	Electronics I	1	2	0	0	3	2	105	4
	PHY364	Solar Thermal Energy I	1	2	0	0	3	2	105	4



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	PHY365	Bioenergy I (Biochemical Conversion Systems)	1	2	0	0	3	2	105	4
	PHY366	Energy Storage System I	1	2	0	0	3	2	105	4
	E6	Elective Course (6)	2	2	0	0	4	3	150	6
								23	16	825
7	PHY421	Solar Photovoltaic Energy Conversion II	1	2	0	0	3	2	105	4
	PHY461	Solar Thermal Energy II	1	2	0	0	3	2	105	4
	PHY462	Bio-Energy II (Thermo-chemical Conversion of Biomass)	1	2	0	0	3	2	105	4
	PHY463	Energy Storage System II	2	2	0	0	4	3	150	6
	E7	Elective Course (7)	2	2	0	0	4	3	150	6
	E8	Elective Course (8)	2	2	0	0	4	3	150	6
							21	15	765	30
8	PHY419	Graduation Project	2	4	0	0	6	4	210	8
	PHY428	Practical Training & Internship	2	4	0	0	6	4	210	8
	PHY465	Wind Energy	2	2	0	0	4	3	150	6
	E9	Elective Course (9)	2	2	0	0	4	3	150	6
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							22	16	810	32
							177	132	6600	264