Faculty of Engineering and Technology Philadelphia University

B.Sc. in Alternative Energy Technology Total Credit Hours (132) Hrs. Study Plan (2021-2022)



Student Name:

Student No.:

Academic Advisor:

First: University Requirements (27) Cr.Hr.
A. First Field: University Compulsory Requirements: (18) Cr.Hr.

****	in a new and control of companion of any uncounter (10) Classic	CITION (TO	/CI.III.
Course No.	Course Title	Cr.Hr.	Cr.Hr. Prerequisite
111100	Military Science	3	-
116101	National Education	3	1
116103	Communication and Contact Skills (Arabic Language)	3	114099
116107	Communication and Contact Skills (English Language 1)	3	660021
116108	Communication and Contact Skills (English Language 2)	3	116107
116110	Entrepreneurship and Innovation	1	-
116102	Leadership and Social Responsibility	1	-
116104	Life Skills	1	
116109	Voluntary Community Service	0	

B. University Elective Courses (9) Cr.Hr.

The student st	The student studies 9 credit hours from the table below:	w:	
Course No.	Course Title	Cr.Hr.	Cr.Hr. Prerequisite
116105	Thinking Skills	3	1
116133	Human Vision & Civilization	3	1
116111	Language Skills (1)	3	1
116112	Language Skills (2)	S	1
116113	Development & Environment	w	I
116114	Introduction to Project Management	3	1
116140	Human Rights	3	1
116143	Legal Culture	3	-
116106	Economic Culture	3	1
216104	Digital Culture	3	*****
216102	Data Analysis Skills	3	1
216105	Health Culture	3	
116144	Introduction to cycology and sociology	3	1

any examinations (less than 50 %) must successfully pass the remedial course which He / She did not pass. English language and Computer skills. Student who fails to pass in All students must take level examinations in Arabic Language,

Codes used in Curriculum: (610) Electrical Eng.

- (611) Renewable Energy Eng. (630) Computer Eng.

(670) Civil Eng.	(650) Communications & Electronics Eng. (660) Architectural Eng.	(630) Computer Eng.	(611) Renewable Energy Eng.	(610) Electrical Eng.
	cs Eng. (660) Architectural Eng.	(640) Mechatronics Eng.	(615) Alternative Energy Technology	(620) Mechanical Eng.

Second: Fa	Second: Faculty Requirements: (27) Cr. Hr.	Cr. Hr	•
Course No.	Course Title	Cr.Hr.	Prerequisite
216111	Calculus (1)	3	1
250102	Calculus (2)	3	216111
216131	General Physics (1)	3	
216132	General Physics (2)	3	216131
216141	General Chemistry (1)	3	
660131	Manual Engineering Drawing	1	
660132	Computer Engineering Drawing	1	660131
620171	Engineering Workshop (1)	1	
610263	Programming Language	3	750099
640253	Engineering Skills	3	130108
610550	Entrepreneurship	3	640253

Third: Depar	Third: Department Requirements (78) Cr.Hr. A. Compulsory Requirements: (69) Cr.Hr.			
Course No	Course Title	Cr.Hr.	7.	D
Course Ivo.	Course Time	100	1	Treredusite
615211	Principles of Electrical Circuits	2	-	216132
615212	Principles of Electronic Circuits	2	-	615211
615311	Sensors and measurement devices	2	-	615212
615312	Automatic Control Systems	2		615311
615313	Electrical Machines	2	_	615211
615314	Electrical Power System	2	1	615313
615225	Mechanics (Statics and Dynamics)	3	1	216131+250102
615226	ThermoFluid	3	1	250102+615225
615261	Fluid and Thermal Lab.	1	1	615226
615323	Heat transfer	3	1	615226
615322	Strength of Materials	2	1	615225
615331	Internal and External Combustion	2	1	615323
615334	Energy Storage and Conversion	3	1	615323
615333	Power Plant Station	2	i	615314

College No	Course Title	Cr.Hr.	Hr.	D
Course 140.	Course Time	100/01/00	Section 2	Frerequisite
615343	Solar Thermal Energy	3	1	615323
615344	Photovoltaic Energy System	3	,	615212
615435	Energy Economics and Management	3	,	615334
615432	Conventional Energy Resources	ယ		615334
615462	Energy Systems Simulation and Modeling Lab.	,	1	615344
615434	Environmental Pollution	2	1	615331
615436	Nuclear Energy	3	1	615432
615437	Oil Shale	3	1	615432
615463	Alternative Energy Workshop (1)	1	1	615343+615344(*)
615443	Wind Energy	S	1	615226+615313
615464	Alternative Energy Workshop (2)	1	1	615443(*)
615449	Other Renewable Energy Recourses	3	î	615226+615323
615481	Technology Project (1)	1	-	90 CrHrs
615482	Technology Project (2)	2	-	615481
615480	Training	1	1	90 CrHrs
B. Compulso	B. Compulsory Support Requirements: (9) Cr. Hr.	7.		
Course No.	Course Title	Cr.Hr.	Hr.	Prerequisite
(1727)				The second second
613333	Reading and Drawing Sketches	w		660132
615351	Occupational safety	w	1	615353
615352	Materials Science	3	1	615322
(*) concurrent				^

