Philadelphia University
Study Plan (2026-2027)
B.Sc. in Civil Engineering

Faculty of Engineering and Technology

Student Name: _____
Student No : _____
Academic Advisor: _____

Total Credit Hours (160) Hrs.

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

Course No.	Course Title	Cr.Hrs	Prerequisite	Kind of Learning
116002	Military Science *	3	---	ONLINE
116101	National Education	3	---	ONLINE
116102	Entrepreneurship, Innovation, and Leadership skills	3	---	ONLINE
116103	Communication and Contact Skills (Arabic Language)	3	116099	Physical
116107	Communication and Contact Skills (English Language 1)	3	116098	Physical
116108	Communication and Contact Skills (English Language 2)	3	116107	Physical
116109	Voluntary Community Service	0	---	ONLINE

* Compulsory for Jordanian Students

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

The student studies 9 credit hours from the table below:

Course No.	Course Title	Cr. Hr.	Prerequisite	Kind of Learning
116116	Personal and Professional Skills	3	Dept. Approval	Blended
116117	Financial and Economic Literacy	3	Dept. Approval	Blended
116111	Language Skills (1) (European or Eastern languages)	3	-----	Blended
116112	Language Skills (2) (European or Eastern languages)	3	116111	Blended
116113	Language Skills (3) (European or Eastern languages)	3	116112	Blended
216113	Sustainable Development and the Environment	3	Dept. Approval	Blended

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

Codes used in Curriculum:
(610) Electrical Eng. (620) Mechanical Eng.
(640) Mechatronics Eng. (670) Civil Eng.

Second: Faculty Requirements: (24) Cr. Hr.

Course No.	Course Title	Cr.Hr.	Prerequisite	Kind of Learning
216111	Calculus (1)	3	---	Physical
250102	Calculus (2)	3	216111	Physical
216131	General Physics (1)	3	---	Physical
216132	General Physics (2)	3	216131	Blended
620130	Manual Engineering Drawing	1	---	Physical
620132	Computer Engineering Drawing	1	620130	Physical
620173	Engineering Workshops	1	---	Physical
610266	Artificial Intelligence & Data analytics in Engineering	3	216099	Blended
610358	Engineering Innovation & Tech. Entrepreneurship	3	116108	ONLINE
670558	Engineering Economics & Digital Applications	3	610358	Blended

Third: Department Requirements (109) Cr.Hrs.
A. Compulsory Requirements: (77) Cr.Hrs.

Course No.	Course Title	Cr.Hr.	Prerequisite	Kind of Learning
670230	Engineering Geology	1	250102	ONLINE
670211	Statics	3	216131 + 250102	Blended
620212	Dynamics	3	670211	Blended
670212	Strength of Materials	3	670211	Physical
670213	Strength of Materials Lab.	1	* 670212	Physical
670214	Construction Materials	3	250102	Blended
670216	Construction Materials Lab.	1	* 670214	Physical
670217	Building Construction & Civil Drawing	3	670211	Blended
670331	Soil Mechanics	3	670230	Blended
670332	Soil Mechanics Lab.	1	* 670331	Physical
670311	Structures (1)	3	670212	Physical
670312	Structures (2)	3	670311	Physical
670324	Highways Geometric Design	3	670261	Physical
670323	Pavement Design	3	670331	Physical
670322	Design of Highways lab.	1	* 670323	Physical
670411	Reinforced Concrete -1	3	670311+670214	Physical
670412	Reinforced Concrete -2	3	670411	Physical
670413	Steel Structures	3	670311	Physical
670261	Surveying	3	250102	Physical
670262	Surveying Lab.	1	* 670261	Physical
670571	Project Management	3	670412	Blended
670572	Specifications, Contracts & Quantity Surveying	3	670412+670217	Physical

Course No.	Course Title	Cr .Hrs.	Prerequisite	Kind of Learning
670441	Hydraulics	3	670381	Physical
670541	Hydrology	3	670441	Blended
670442	Hydraulics Lab.	1	* 670441	Physical
670444	Sanitary Engineering Lab.	1	* 670443	Physical
670531	Foundations Engineering	3	670331+670411	Physical
670499	Engineering Training (**)	3	(115) Cr.Hr+670490	Physical
670551	Engineering Project - 1	1	100 Cr. H.	Physical
670552	Engineering Project - 2	2	670551 + 670499	Physical
670381	Fluid Mechanics	3	670211	Physical
670443	Sanitary Engineering		670381	Blended

B. Compulsory Support Requirements: (23) Cr. Hr.

Course No.	Course Title	Cr.H.r	Prerequisite	Kind of Learning
216141	General Chemistry (1)	3	---	Physical
250202	Calculus (3)	3	250102	Physical
250205	Linear Algebra and Vector Calculus	3	250102	Blended
610262	Engineering Analysis (2)	3	250205	Blended
670490	Vocational Qualification	2	(100) Cr. Hr.	Physical
610260	Engineering Analysis (1)	3	250102	Blended
640263	Modeling & Simulation in Engineering Applications	3	610266	Blended
670203	Engineering Statistics	3	610260	Blended

C. Elective Requirements: (9) Cr. Hr.

Course No.	Course Title	Cr. Hrs	Prerequisite	Kind of Learning
670510	Restressed and Cast Concrete	3	670412	Blended
670343	Environmental Engineering	3	670444+216141	ONLINE
670553	Special Topics in Civil Engineering	3	Dept. Approval	Blended
670421	Transportation & Traffic Engineering	3	670324+670203	Physical
670554	Computer Applications in Civil Engineering	3	120 Cr. H.	Blended
670555	Fundamentals of Finite Element	3	120 Cr. H.	Blended

(*) Concurrent
(**) Seven Weeks (280 hours) of Training after completing (115) Cr.Hrs.

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