



الجامعة الألمانية الأردنية
German Jordanian University

German Jordanian University

**Pre-Year in Engineering Science/Industrial
and Systems Engineering**
Non- Degree Granting Online Program

Study Plan 2025

I. Study Objective and Program Profile

GJU online pre-year is a special studies of one year duration offered during the first, second and summer semesters of GJU's academic year which aim to qualify students for enrolment into a German Bachelor's degree programme in "Engineering Science/Industrial and Systems Engineering" who are not directly eligible to do so with their high school diploma. GJU online pre-year does not require physical presence at GJU or in Jordan; this applies to studying and taking the exams.

II. Learning Outcomes

- An ability to apply knowledge of mathematics, science and engineering.
- An ability to function in teams.
- An ability to identify, formulate and solve engineering problems.
- An ability to communicate effectively.
- A recognition of the need for an ability to engage in life-long learning.
- An ability to function in a culturally diverse environment.

III. Course Delivery Methods

All courses will be offered online.

IV. Admission Requirements

To apply for admission, the following minimum requirements must be met:

- 80% General High School Examination (Tawjihi) or Equivalent
- Proven English Proficiency (at least B2 English certificate)

Placement Tests

Applicants must sit for placement tests in the English Language and Mathematics to determine whether the applicant may be required to take remedial courses in the mentioned subjects. Depending on or the applicant scores in the placement tests, some of the following 3-credit-hour remedial courses are required:

Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
ENGL0098	Elementary English	3	3	3	-	OL	Placement test
ENGL0099	Intermediate English	3	3	3	-	OL	ENGL0098
MATH0099	Pre-Math	3	3	3	-	OL	Placement test
Total		9	9	9	-		

- Remedial courses are to be completed and passed within the first year of enrollment.
- Passing grade of remedial courses is 60%.
- ECTS (B.Sc.): is the European Credit Transfer and Accumulation, One ECTS is equivalent to 30 actual workload hours.

V. Framework for Pre-Year

“Engineering Science/Industrial and Systems Engineering” pre-year online program (College Preparatory Program) aims to prepare students with the required technical skills to succeed later on in a German degree program.

Classification	Credit Hours			ECTS		
	Compulsory	Elective	Total	Compulsory	Elective	Total
Pre-Year Requirements	36	0	36	60	0	60

1. Pre-Year Requirements (36 credit hours, 60 ECTS)

Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
CS116OL	Computing Fundamentals	3	6	3	-	OL	
CS1160OL	Computing Fundamentals Lab	1	0	-	3	OL	CS116OL ^{co}
IE0121OL	Probability and Statistics	3	5	3	-	OL	
IE0281OL	Technical Writing and Engineering Ethics	2	3	2	-	OL	
IE0361OL	Engineering Economics	3	5	3	-	OL	IE0121OL
MATH101OL	Calculus I	3	5	3	-	OL	
MATH102OL	Calculus II	3	5	3	-	OL	MATH101OL
MATH203OL	Applied Mathematics for Engineers	3	5	3	-	OL	MATH102OL
MATH205OL	Differential Equations	3	5	3	-	OL	MATH102OL
ME0111OL	Computer Aided Engineering Drawing	2	4	-	6	OL	CS116OL
MECH2102OL	Statics and Strength	3	5	3	-	OL	MATH102OL, PHYS104OL
PHYS103OL	Physics I	3	5	3	-	OL	
PHYS104OL	Physics II	3	5	3	-	OL	PHYS103OL
PHYS106OL	General Physics Lab	1	2	-	3	OL	PHYS103OL ^{co}
Total		36	60	32	12		

Study Plan Guide for Online Pre-Year

Pre-Year							
First Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
IE0121OL	Probability and Statistics	3	5	3	-	OL	-
MATH101OL	Calculus I	3	5	3	-	OL	-
PHYS103OL	Physics I	3	5	3	-	OL	-
CS116OL	Computing Fundamentals	3	6	3	-	OL	-
CS1160OL	Computing Fundamentals Lab	1	0	-	3	OL	CS116OL ^{co}
IE0281OL	Technical Writing and Engineering Ethics	2	3	2	-	OL	-
Total		15	24	14	3		

Second Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
IE0361OL	Engineering Economics	3	5	3	-	OL	IE0121OL
MATH102OL	Calculus II	3	5	3	-	OL	MATH101OL
PHYS104OL	Physics II	3	5	3	-	OL	PHYS103OL
PHYS106OL	General Physics Lab	1	2	-	3	OL	PHYS104OL ^{co}
ME0111OL	Computer Aided Engineering Drawing	2	4	-	6	OL	CS116OL
Total		12	21	9	9		

Summer Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect.	Prac.		
MECH2102OL	Statics and Strength	3	5	3	-	OL	MATH102OL, PHYS104OL
MATH203OL	Applied Mathematics for Engineers	3	5	3	-	OL	MATH102OL
MATH205OL	Differential Equations	3	5	3	-	OL	MATH102OL
Total		9	15	9	0		