



EUROPEAN UNIVERSITY OF LEFKE

**DEPARTMENT OF CONSTRUCTION
TECHNOLOGIES**

PROGRAMME HANDBOOK

2026

PROGRAM INFORMATION

Program Name and Degree Awarded: Computer Programming, Associate Degree

Duration of Studies: 2 years (4 semesters)

Total Credits / ECTS : 75 CREDITS/ 120 ECTS

Language of Instruction: English

Mission

To prepare highly skilled technical human resources demanded by today's globalized digital world; to equip graduates with theoretical and practical competencies in computer programming and related technologies; to foster individuals who keep up with developments in the digital and computer world; who can work effectively in teams; having strong communication, social skills, high work ethics, and high motivation.

Vision

To prepare well-prepared, industry-ready graduates who contribute to the public and private sectors, and who are capable of entrepreneurship and continuous learning in computer systems, software, and programming.

Program Objectives

- Be technically competent in both theoretical and practical aspects of computer programming, software, and systems demanded by industry and service sectors.
- Keep pace with evolving technologies in computing and digital industries; be adaptable to change.
- Have strong teamwork, communication, social skills, ethical conduct, and motivation.
- Be able to work in public or private sector organizations—especially in areas such as system import, installation, assembly, marketing, distribution of computer systems, and software development.
- Potentially start their own business given the nature of the sector.

Program Learning Outcomes

- Apply theoretical knowledge and practical skills in computer programming, software installation, system setup, and related technical tasks.
- Use project-based learning to design, develop, and maintain simple to moderately complex software or system components.
- Work effectively as part of a team and individually; communicate technical information clearly; demonstrate social and professional behavior.

- Adapt to new technologies and continuous developments in the field of computing and digital world.
- Exhibit high ethical standards, motivation, and professionalism in their work.

Curriculum:

1. YEAR FALL

COURSE CODE	COURSE NAME	(T-U-L)K	ECTS	COURSE TYPE
COMV109	MATHEMATICS	(3-0-0)3	6	COMPULSARY
COMV121	PHYSICS I	(3-0-0)3	6	COMPULSARY
CPRG117	COMPUTING FOUNDATIONS	(3-0-2)4	7	COMPULSARY
UFLE01	FOREIGN LANGUAGE ELECTIVE I (ENGLISH)	(3-0-0)3	3	ELECTIVE
ISTE101	INTRODUCTION TO TECHNOLOGY FUNDAMENTALS	(3-0-0)3	6	COMPULSARY
UHTC01	HISTORY	(2-0-0)2	2	ELECTIVE

1. YEAR SPRING

COURSE CODE	COURSE NAME	(T-U-L)K	ECTS	COURSE TYPE
CPRG124	COMPUTER PROGRAMMING	(3-0-2)4	7	COMPULSARY
CPRG104	OPERATING SYSTEMS	(3-0-3)3	7	COMPULSARY
UFRC01	UNIVERSITY ELECTIVE I	(3-0-0)3	4	ELECTIVE
UFLE02	FOREIGN LANGUAGE ELECTIVE II (ENGLISH)	(3-0-0)3	3	ELECTIVE
CPRG152	INTRODUCTION TO INFORMATION SYSTEMS	(3-0-0)3	7	COMPULSARY
UHTC02	TURKISH	(2-0-0)2	2	ELECTIVE

2. YEAR FALL

COURSE CODE	COURSE NAME	(T-U-L)K	ECTS	COURSE TYPE
CPRG205	DIGITAL LOGIC DESIGN	(3-0-2)4	6	COMPULSARY
CPRG217	DATA STRUCTURES	(3-0-2)4	6	COMPULSARY
CPRG215	DATABASE MANAGEMENT SYSTEMS	(2-2-0)3	5	COMPULSARY
UFRC02	UNIVERSITY ELECTIVE II	(3-0-0)3	4	ELECTIVE
CPRG01	TECHNICAL ELECTIVE I	(3-0-0)3	5	ELECTIVE
UFRC03	UNIVERSITY ELECTIVE II	(3-0-0)3	4	ELECTIVE

2. YEAR SPRING

COURSE CODE	COURSE NAME	(T-U-L)K	ECTS	COURSE TYPE
COMN204	ETHICS IN PROFESSION	(3-0-0)3	5	COMPULSARY
CPRG218	OBJECT ORIENTED PROGRAMMING	(3-0-2)4	6	COMPULSARY
CPRG214	INTERNET PROGRAMMING	(3-0-0)3	5	COMPULSARY
CPRG220	PROJECT WORK	(3-0-0)3	4	COMPULSARY
CPRG252	PROGRAMMING FOR MANAGEMENT INFORMATION SYSTEMS	(3-0-0)3	5	COMPULSARY
CPRG02	TECHNICAL ELECTIVE II	(3-0-0)3	5	ELECTIVE

TECHNICAL ELECTIVES :

SENG212 SOFTWARE REQUIREMENTS ANALYSIS AND SPECIFICATION

CP214 INTERNET PROGRAMMING

Laboratory and Equipment Capacity

AS104, AS106, AS108 COMPUTER LABS

Career Opportunities

Graduates of the program can be employed in all public and private sector institutions. In particular, there are employment opportunities in private companies engaged in commercial activities such as the import, assembly, hardware, installation, production, marketing, distribution, and software development of computer systems. In addition, due to the nature of the sector, it is also possible for graduates to establish their own businesses.

Contact Information

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EUROPEAN UNIVERSITY of LEFKE

Faculty of Engineering

Civil Engineering Department

2025-2026 Fall Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
CNTE211	Statics	Compulsory	4	0	-	4	6	Tuesday 15.00-16.50 Thursday 15.00-16.50	
Prerequisite		Prerequisite to			CE202				
Course Lecturer	Hasan Dilek				Office Hours Schedule	Tuesday 11.00-12.50			
E-mail	hdilek-lau@eul.edu.tr								
Phone	-				Office No	AS301			
Teaching Assistant(s)	-				Phone	-			
E-mail	-				Office No	-			
Catalogue Description	Introduction to rigid body mechanics, equivalent force systems. Concepts of moment, couple, resultant. Equilibrium; Free body diagram; equations of equilibrium. Structural analysis; trusses, beams. Properties of surfaces. Area moment and centroids; moment and product of inertia; principal directions.								
Course Objectives	The main purpose of this course is to provide the students with a clear and thorough knowledge of both the theory and the applications of engineering mechanics. Equilibrium of a particle and a rigid body will be investigated within this course, followed by discussions about structural analysis, internal forces, shear force and bending moment diagrams. Center of gravity and centroid will also be introduced to the students.								
Learning Outcomes	At the end of this course student will be able to:								
	1	recognize the basic assumptions in structural mechanics							
	2	understand the different loading systems							
	3	define different supports and reactions at supports							
	4	recognize the basics of static equilibriums							
5	define the center of gravity of structures								
Program Outcome Relations	PO1: 5 PO2: 5 PO3: 3 PO4: 3 PO5: 1 PO6: 1	PO7: 1 PO8: 1 PO9: 1 PO10: 1 PO11: 1						(1) Strongly disagree; (2) Disagree; (3) Neither agree, nor disagree; (4) Agree; (5) Strongly agree.	
Textbooks and/or References	1 Hibbeler, R.C., 2017, "Engineering Mechanics - Statics", 14 th Ed. In SI Units, Prentice-Hall, Singapore 2 Beer, F., Johnston, E.R., and Cornwell, J.P., 2013, "Vector Mechanics for Engineers Statics and Dynamics", 10 th Ed., McGraw-Hill 3 Lecture Notes Provided								
WEEK	Date	TOPICS					Reference No - Section		
1	23.09.2025 - 25.09.2025	Introduction- General principles					1; 1, 2; 1		
2	30.09.2025 - 2.10.2025	Force vectors					1; 2		
3	07.10.2025 - 09.10.2025	Force vectors					1; 2		
4	14.10.2025 - 16.10.2025	Equilibrium of a particle					1; 3, 2; 3		
5	21.10.2025 - 23.10.2025	Equilibrium of a particle					1; 3, 2; 3		
6	28.10.2025 - 30.10.2025	Force system resultants					1; 4, 2; 3		
7	04.11.2025 - 06.11.2025	Force system resultants					1; 4, 2; 3		
8	08 - 16/11/2025	Midterm Examination Week (08 - 16/11/2025)					-		
9	18.11.2025 - 20.11.2025	Equilibrium of a rigid body					1; 5, 2; 4		
10	25.11.2025 - 27.11.2025	Equilibrium of a rigid body					1; 5, 2; 4		
11	02.12.2025 - 04.12.2025	Structural analysis: Analysis of trusses					1; 6, 2; 6		
12	09.12.2025 - 11.12.2025	Internal forces; shear force and bending moment diagrams					1; 7, 2; 7		
13	16.12.2025 - 18.12.2025	Shear force and bending moment diagrams, Centroids					1; 7, 1; 9, 2; 7		
14	23.12.2025 - 25.12.2025	Centroids, First moment of Area					1; 9, 2; 9		
15	30.12.2025 - 31.12.2025	Moment of inertia					1; 10, 2; 9		
16	03 - 11/01/2026	Final Examination Week (03 - 11/01/2026)					-		
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	03-11/01/2026	50					
	Semester Evaluation			50	100.0				
	Midterm(s)	1	08-16/11/2025	35	70.0				
	Quiz(zes)								
	Project(s)								
	Homework(s)	1	TBA	15	30.0				
Laboratory									
Other									
*** Lifelong Learning Programme (LLP) ***						Language of Instruction: English			
Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total		
Theoretical lecturing hours (TLH)	14	3	42	Homework	1	20	20.0		
TLH self study	14	5	70	Project					
Quiz (Q)				Presentation					
Q preparation self study				Seminar					
Laboratory (L)				Tutorial					
L preparation work									
Midterm exam (ME)	1	2	2	Final exam (FE)	1	2	2.0		
ME preparation self study	1	20	20	FE preparation self study	1	25	25.0		
TOTAL :							181		
Recommended ECTS Credit (Total Hours / 30) :							6		



EUROPEAN UNIVERSITY of LEFKKE

Faculty of Engineering

Civil Engineering Department

2025-2026 Fall Semester - SYLLABUS

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
CNTE213	Construction Management	Compulsory	3	0	-	3	5	Friday 09:00-11:50 AS 113 Saturday 10.00- 13.00 AS 113 (Every two weeks)
Prerequisite	-	Prerequisite to			-	-	-	-
Course Lecturer	cumhur aydin				Office Hours Schedule			
E-mail	caydin@eu.edu.tr							
Phone	+9 0 392 660 2000				Office No			
Teaching Assistant(s)	-				Phone	-		
E-mail	-				Office No	-		
Catalogue Description	Profile of construction sector; company and site organization. Documents in a contract file, types of contracts. General specifications for public works. Technical specifications. Working schedules; manpower and equipment requirements on the job. Quantity measurement monthly payments. Final account and payment. Safety in construction. Economical and juridical basis of construction planning. Methods of planning. Gantt charts, networks. CPM and PERT Arrow and present system. Rock drilling and blasting operations.							
Course Objectives	The main purpose of this course is to introduce the concepts of construction management to students. Various methods used in scheduling construction applications will be explained. In addition, cash flow calculations are evaluated..							
Learning Outcomes	At the end of this course student will be able to:							
	1	understand the concept of construction planning and management						
	2	prepare organizations and management charts						
	3	install a construction site						
	4	schedule a construction project						
Program Outcomes	PO1	4	PO7	1	(1) Strongly disagree;			
	PO2	3	PO8	1	(2) Disagree;			
	PO3	1	PO9	1	(3) Neither agree nor disagree;			
	PO4	1	PO10a	5	(4) Agree;			
	PO5	3	PO10b	1	(5) Strongly agree.			
	PO6	1	PO11	1				
	PO7	1						
Textbooks and/or References	1	Construction Engineering and Management, METU Lecture Notes						
	2	Walker, A., 2007, "Project Management in Construction", 5th ed., Blackwell Publishing, Singapore						
WEEK	Date	TOPICS					Reference No - Section	
1	26/27.09.2025	Introduction to construction planning and management					1-1.	
2	03/04.10.2025	Organizations, site installation,					1-3.	
3	10/11.10.2025	Contractor's and engineer's site organization					1-3.	
4	17/18.10.2025	Estimating and Tendering					1-4.	
5	24/25.10.2025	Construction scheduling-bar charts					1-4.	
6	31.10/01.11.2025	Construction scheduling-bar charts					1-4.	
7	07/08.11.2025	Mid-term Exams Week					1-4.	
8	14/15.11.2025	Mid-term Exams Week					1-4.	
9	21/22.11.2025	Cash flow in construction projects						
10	28/29.11.2025	Cash flow in construction projects					1-6.	
11	05/06.12.2025	Quality and safety management at construction sites					1-7.	
12	12/13.12.2025	Scheduling for repetitive works (Excavation equipment)					1-8.	
13	19/20.12.2025	Construction Machinery and Equipment					1-8.	
14	26/27.12.2025	Revisions					1-7-8.	
15	02/03.01.2026	Final Exams						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1	TBA	40				
	Semester Evaluation			60	100.0			
	Midterm(s)	1	TBA	30	50.0			
	Quiz(zes)	1	TBA	15	25.0			
	Project(s) (Quiz)	1	TBA	15	25.0			
	Homework(s)							
	Laboratory							
Other								
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:					
Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total	
Theoretical lecturing hours (TLH)	14	3	42	Homework				
TLH self study	14	5	70	Project	1	15	15	
Quiz (Q)				Presentation				
Q preparation self study				Seminar				
Laboratory (L)				Tutorial				
L preparation work								
Midterm exam (ME)	1	1	1	Final exam (FE)	1	1	1	
ME preparation self study	1	10	10	FE preparation self study	1	10	10	
TOTAL :							149	
Recommended ECTS Credit (Total Hours / 30) :							5	



EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Title	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
CNTE215	Engineering Economy	Compulsory	3	0	0	3	5	wednesday @ 12:00-16:50
Prerequisite		Prerequisite to						
Course Lecturer	Asli BARDAK					Office Hours Schedule	thursday 10:00-11:50	
E-mail	abardak@eul.edu.tr							
Phone						Office / Room No	AS-304	
Teaching Assistant						Phone		
E-mail						Office / Room No		
Catalogue Descriptions	Engineering economy principles. Cash-flow diagrams. Time effect on money. Formulas for reflecting time effect on money. How to value money that was spent before and how to value if it will be spent in the future while comparing different alternatives at present. Interest rate, simple interest rate, compound interest rate and compounding periods. How different compounding periods affecting the total amount of interest earned from the deposit. Why different alternatives need to be compared on economical basis. What is feasibility? Comparing different alternatives, examples. Minimum rate of return, attractive rate of return. Replacement and economic life concepts and problems about replacement concept by following different evaluation techniques.							
Objectives	The main purpose of this course is to introduce some of the basic concepts of economy for engineering students. Effect of time on money, methods for comparing different alternative, Benefit-Cost Analysis, Replacement and Depreciation concepts are discussed.							
Learning Outcomes	At the end this course, the student will be able to: (1) understand the some of the basic principles of economy, (2) understand and analyze the methods of comparing engineering projects' alternatives, (3) understand and analyze time effect on money by introducing interest rate, (4) evaluate how to make depreciation analysis, (5) evaluate how to investigate replacement concept.							
Textbooks and/or References	1	Leland T. Blank, Anthony Tarquin, Engineering Economy 8th Edition, Mc Graw Hill (2018) (Textbook)						
	2	William G. Sullivan, Elin M. Wicks, C. Patrick Koelling, Engineering Economy 16th Edition Pearson (2015) (Reference)						
WEEK	Date	TOPICS						Reference No - Section
Week 1	24/09/2025	Introduction to Engineering Economy Concept, basic concepts, basic and compound interest rates						1: 1.1-1.10
Week 2	01/10/2025	Time and Interest Effect of Money : Single Amount Factors, Uniform Series, Sinking Fund Factors						1: 2.1-2.3
Week 3	08/10/2025	Time and Interest Effect of Money : Untabulated factor values. Arithmetic, Geometric Gradient Series						1: 2.4-2.7
Week 4	15/10/2025	Non Uniform Cashflow: Shifted Uniform Series, Randomly Placed Single Amounts, Shifted Gradients						1: 3.1-3.4
Week 5	22/10/2025	Nominal and Effective Interest Rates: Definitions, Effective IR.(annual, different periods) , Equivalence						1: 4.1-4.4
Week 6	25/10-16/11/2025	MIDTERM I						
Week 7	19/11/2025	Nominal and Effective Interest Rates: Calculations for Equivalence Relations, Continious Compounding						1: 4.5-4.9
Week 8	26/11/2025	Present Worth Analysis : Formulating,Equal and Different Life Alternatives						1- 1-5
Week 9	03/12/2025	Rate of Return Analysis: Interpretation, Calculations, Special Considerations						1: 7.1-7.3
Week 10	10/12/2025	Benefit Cost Analysis: Public Sector, Analysis Methods, Ethical Considerations						1: 9.1-9.6
Week 11	17/12/2025	Replacement and Retention Decisions: Basics, Economic Service Life, Performing Study						1: 7, 9
Week 12	24/12/2025	Depreciation Methods: Terminology, Depreciation Calculations						1: 11.1-11.4
Week 13	31/12/2025	Depreciation Methods: Terminology, Depreciation Calculations						1: 16.1-16.4
Week 14	03-11/01/2026	Finals						all topics above
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1	03-11/01/2026	50				
	Semester Evaluation			50				
	Midterm(s)	1	25/10-16/11/2025	50	100.0			
	Quiz(zes)							
	Project(s)							
	Homework(s)							
	Laboratory work(s)							
Attendance								
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecturing hours (TLH)	15	45	Homework					
TLH self study	15	60	Project					
Quiz (Q)			Presentation					
Q preparation self study			Seminar					
Laboratory (L)								
L preparation work								
Midterm exam (ME)	1	2	Final exam (FE)	1	2			
ME preparation self study	4	16	FE preparation self study	4	16			
TOTAL :					141			
Recommended ECTS Credit (Total Hours / 30) :					5			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Architecture & Design"



"Department of Architecture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course			Credits	ECTS	Weekly Time Schedule
			T	A	L			
CNTE/233ARCH313	Building Construction and Detailing I		1	2		2	4	Tuesday: 09.00-11.50
Prerequisite	none	Prerequisite to			ARCH 339			
Course Lecturer	Assist. Prof. Dr. N. Gözde Oral					Office Hours		
E-mail	goral@eul.edu.tr					Schedule		
Phone						Office / Room No	2	
Teaching Assistant(s)						Phone		
E-mail						Office / Room No		
Course Descriptions	This course gives main concepts to understand the building materials, reinforced construction methods and techniques with the basic principles and design. This course also covers the construction building elements; foundations, beams, slabs, columns and curtains. This course combines both theory and practice while expecting students to learn the contemporary construction methods and techniques.							
Course Objectives	This course is aimed to provide an overview of the design of reinforced construction systems and their relationship to the structural design process. Students will be exposed to the knowledge of reinforced construction systems (e.g., precast concrete, timber, reinforced concrete and steel) of structures with their details, material selection principles and application technique to buildings.							
Learning Outcomes	1. To understand the basic knowledge of reinforced construction systems. 2. Ability to graphically represent structural and construction systems with their respective detailing. 3. Ability to detail the different types of connections and joint of reinforced components. 4. To understand the principles and properties of structural framing systems.							
Programme Outcome Relations	PO1: 5 PO2: 5 PO3: 4 PO4: 5 PO5: 4 PO6: 1 PO7: 1	PO8: 1 PO9: 1 PO10: 1 PO11: 3 PO12: 2 PO13: 2 PO14: 1	PO15: 1 PO16: 1 PO17: 1 PO18: 1 PO19: 1 PO20: 1 PO21: 1	PO22: 1 PO23: 2 PO24: 1 PO25: 5 PO26: 1 PO27: 1 PO28: 1	PO29: 1 PO30: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.		
Textbooks and/or References	1 Ballast, D. K. (2009). <i>Architect's handbook of construction detailing</i> . John Wiley & Sons. 2 Ching, F. D. (2014). <i>Building construction illustrated</i> . John Wiley & Sons. 3 Chudley, R., & Greeno, R. (2006). <i>Building construction handbook</i> . Routledge. 4 Merritt, F. S., & Ricketts, J. T. (2001). <i>Building design and construction handbook</i> (Vol. 13). New York, NY, USA: McGraw-Hill. 5 Allen, E., & Iano, J. (2019). <i>Fundamentals of building construction: materials and methods</i> . John Wiley & Sons.							
WEEK	Date	TOPICS						Reference to Learning Outcomes
Week 1	23/09/2025	General introduction to the course, what are the main construction parts of a building						1,4,5
Week 2	30/09/2025	Foundations and types; general design principles; construction details						2,3,5
Week 3	07/10/2025	Foundations and types; general design principles; construction details						2,3,5
Week 4	14/10/2025	Coloumn and beam, RCC wall construction detail and design						1,2,3,5
Week 5	21/10/2025	Assignment1: Drawing and detailing of foundation						1,2,3,5
Week 6	28/10/2025	Walls, RCC wall construction detail and design						1,2,3,5
Week 7	11/10/2025	Retaining walls construction detail and design						1,2,3,5
Week 8	04/11/2025	Assignment II: Drawing and detailing of system section						1,2,3,5
Week 9	11/11/2025	Midterm Exams Week						3,4,5
Week 10	18/11/2025	Slab, RCC slab construction detail and design						1,2,3,4,5
Week 11	25/11/2025	Slab, RCC slab construction detail and design						3,4,5
Week 12	02/12/2025	Vertical circulation (RRC stairs construction and design)						1,2,3,4,5
Week 13	09/12/2025	Vertical circulation (RRC stairs construction and design)						1,2,3,4,5
Week 14	16/12/2025	GroupWork:Building construction system model						1,2,3,4,5
Week 15	23/12/2025	Drawing and detailing of RRC stairs						1,2,3,4,5
Week 16	30/12/2025	Drawing and detailing of RRC stairs						1,2,3,4,5
Week 17	03-11.01.2025	Final Exams						1,2,3,4,5
Evaluation Tools		Evaluation Tool	Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)	
1. 1st submission 25 %		Final Exam	1	03-11.01.2025		50	50	
2. Midterm submission 25%		Semester Evaluation				50	100	
3. Final submission 50 %		SubmissionI	1	22/10/2024		20	40	
		SubmissionII	1	03/12/2024				
		GroupWork:staircase	1	17/12/2024				
		Midterm Exam	1	22/11/2023		30	60	
*** Lifelong Learning Programme (LLP) ***		Language of Instruction:				English		
Evaluation Tools		Quantity				Student Workload Hours		
Lectures		9				9x2 18		
Submission		3				3x1 3		
Individual working hours for 1st submission		15				15x1 15		
Individual working hours for 2nd submission		15				15x1 15		
Individual working hours for GroupWork		15				15x1 15		
Midterm Exam		1				1x1 1		
Individual working hours for midterm exam		20				20X1 20		
Final Exam		1				1x1 1		
Individual working hours for final submission		40				40x1 40		
TOTAL						128		
Total Load (hour) /30 hours / ECTS: 128/30 = 4								



EUROPEAN UNIVERSITY OF LEFKE

SYLLABUS

2025-2026 FALL SEMESTER

Course Code	Course Title	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
COMV109	BASIC MATHEMATICS I	Compulsory	3	0	0	3	6	WEDNESDAY 15:00-17:50	
Prerequisite		Prerequisite to							
Course Lecturer	Aslı BARDAK					Office Hours Schedule	TUESDAY-12:00-14:50		
E-mail	abardak@eul.edu.tr								
Phone						Office / Room No	AS 304		
Teaching Assistant						Phone			
E-mail						Office / Room No			
Catalogue Descriptions	Repetition of basic algebra, fractions and partial fractions. The basic algebra and linear equations, arithmetic expression and simplification of algebraic expressions. Operations with surds and indices. The techniques for solving quadratic functions. Graph sketching for quadratic equations in Cartesian plane. Solving linear, polynomial and rational inequalities. The parallel and perpendicular lines.								
Objectives	Students will be able to model and solve real-world situations found in a business environment using a variety of methods of mathematics. End of this course, student be able to learn algebraic expressions, real numbers, equations and inequalities, systems of equations. It includes also includes Pascal's triangle, exponential numbers, logarithms, and linear geometry issues.								
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1) Ability of simplified the algebraic functions (2) Use the graph to illustrate business mathematical techniques (3) Ability to understand Rational numbers, surds and solving the equations (4) Ability to unerstand exponential numbers (5) Ability to understand equations and inequalities								
Textbooks and/or References	1	Ernest F. Haeussler, Jr. Richard S. Paul. Introductory Mathematical Analysis, Prentice Hall, 2002							
	2	Frank S. Budnick, Applied Mathematics for Business, Economics and The Social Sciences, 1994, McGraw Hill							
	3	Margaret L. Lial, Raymond N. Greenwell, Nathan P. Ritchey Finite Mathematics and Calculus with Applications, 10/E, Pearson, 2016							
	4	L. Bostock, S. Chandler. Core Maths for A Level, Stanley Thornes (Publishers) LTD, 1994							
WEEK	Date	TOPICS						Reference No - Section	
Week 1	24/09/2025	Introduction to algebraic expressions						2:1.1,	
Week 2	01/10/2025	Introduction to algebraic expressions						2:1.1,	
Week 3	08/10/2025	Quadratic Equations						3:R.1,2	
Week 4	15/10/2025	Pascal's triangle						3:R.2	
Week 5	22/10/2025	Fractions and Partial Fractions							
Week 8	25/10-16/11/2025	midterm week							
Week 6	19/11/2025	Introducing the Square root's rules						3:R.6.7	
Week 7	26/11/2025	Line Equation							
Week 9	03/12/2025	Equations and Quadratic Equations						2:7.3	
Week 10	10/12/2025	Function properties, inverse functions						2:4.1,4.2,6.1	
Week 11	17/12/2025	Solving composite functions						02:05	
Week 12	24/12/2025	Linear Inequalities						2:3.1	
Week 13	31/12/2025	Quadratic Inequalities and Inequalities Systems						2:1.3, 3:R.5	
Week 14	03-11/01/2026	Final Exam week							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	03-11/01/2026	50	50.0				
	Semester Evaluation				50				
	Midterm(s)	1	TBA	50	50.0				
	Quiz(zes)								
	Project(s)								
	Homework(s)								
	Laboratory work(s)								
Attendance									
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecturing hours (TLH)	13	39	Homework						
TLH self study	13	91	Project						
Quiz (Q)			Presentation						
Q preparation self study			Seminar						
Laboratory (L)									
L preparation work									
Midterm exam (ME)	1	2	Final exam (FE)	1	2				
ME preparation self study	1	20	FE preparation self study	1	20				
TOTAL :					174				
Recommended ECTS Credit (Total Hours / 30) :					6				



EUROPEAN UNIVERSITY OF LEFKE- Faculty of Engineering

SYLLABUS

2025-2026 FALL Semester

Course Code	Course Name	Course Type	Weekly Course			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
COMV113	Chemistry Laboratory		0	0	2	1	4	Tuesday 09:00-11:50 AS114 AND CHEMISTRY LAB	
Prerequisite		Prerequisite to							
Course Lecturer	Asst. Prof. Dr. Devrim ÖZDAL					Office Hours Schedule	Tuesday 14.00-15.00		
E-mail	devrimozdal@eul.edu.tr					Office / Room No	AS307		
Phone	2516					Phone	-		
Teaching Assistant(s)	-					Office / Room No	-		
E-mail	-								
Catalogue Descriptions	This course has been specially designed as a intensive introduction to the techniques of experimental chemistry. Molarity, Solution preparation, Calculation of density, distillation, Separation methods, precipitation reaction, acid-base titration, thermochemistry.								
Objectives	In the chemistry laboratory, students will examine, test and establish for themselves the chemical principles studied in class and textbooks; will collect experimental data; and will use their reasoning to draw logical conclusions about the meaning of these data.								
Learning Outcomes	LO1: Students will develop skills in collecting and managing data in order to express their results in a precise and reliable quantitative or qualitative form on lab. reports, LO2: Students will be use basic apparatus, apply experimental methodologies in the chemistry laboratory setting and Demonstrate the basic laboratory safety concepts, LO3: To gain ability to calculate concentration of solution and learn preparation of solution experimentally, LO4: To understand separation techniques and apply in laboratory, LO5: an understanding thermodynamics laws, enthalpy and free energy concepts, LO6: To observe precipitation reaction experimentally and calculate percentage yield of experiments, LO7: Defining acids and bases and conduct acid-base titration experiment, LO8: To calculate density of materials.								
Program Outcome Relations	PO1: 5 PO2: 1 PO3: 1 PO4: 1 PO5: 3 PO6: 1	PO7: 1 PO8: 4 PO9: 4 PO10: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References	1	European University of Lefke Chemistry Lab. Manual, 2017.							
	2	William L. Masterton, Cecile N. Hurley, Chemistry Principles and Reactions, 8th edition Cengage Learning, 2016							
WEEK	Date	TOPICS					Reference No - Section		
Week 1	22-26.09.2025	Introduction and General Definitions					Ref. 1		
Week 2	29.09.2025	Laboratory Safety Rules and Laboratory Equipments					Ref. 1		
Week 3	06-10.10.2025	Theoretical Background and Report Writing					Ref. 1		
Week 4	13-17.10.2025	Experiment 1. Density (FIRST GROUPS)					Ref. 1		
Week 5	20-24.10.2025	Experiment 1. Density (SECOND GROUPS)					Ref. 1		
Week 6	27-31.10.2025	Experiment 2. Distillation (FIRST GROUPS)					Ref. 1		
Week 7	03-07.11.2025	Experiment 2. Distillation (SECOND GROUPS)					Ref. 1		
Week 8	10-14.11.2025	MIDTERM EXAM WEEK					Ref. 1		
Week 9	17-21.11.2025	Experiment 3. Solution Preparation (FIRST GROUPS)					Ref. 1		
Week 10	24-28.11.2025	Experiment 3. Solution Preparation (SECOND GROUPS)					Ref. 1		
Week 11	01-05.12.2025	Experiment 4. Acid-Base Titration (ALL GROUPS)					Ref. 1		
Week 12	08-12.12.2025	Experiment 5. Precipitation Reaction (FIRST GROUPS)					Ref. 1		
Week 13	15-19.12.2025	Experiment 5. Precipitation Reaction (SECOND GROUPS)					Ref. 1		
Week 14	22-26.12.2025	Experiment 6. Thermochemistry (ALL GROUPS)					Ref. 1		
Week 15	29-31.12.2025	Make-Up Experiment Week					Ref. 1		
Week 16	05.09.01.2026	FINAL EXAM WEEK							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	03-11.01.2026	40					
	Semester Evaluation				50				
	Midterm Exam	1	08-16.11.2025	30	60.0				
	Quiz(zes)	0		0	0.0				
	Project(s)	0		0	0.0				
	Homework	0		0	0.0				
	Laboratory	0		0	0.0				
Report Writing	6	After each Experiment	30	60.0					
*** Lifelong Learning Programme (LLP) ***						Language of Instruction:	English		
Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total		
Theoretical lecturing hours	14	3	42	Homework					
TLH self study	14	4	56	Project					
Quiz (Q)				Presentation					
Q preparation self study				Seminar					
Laboratory (L)				Tutorial					
L preparation work									
Midterm exam (ME)	1	1	1	Final exam (FE)	1	1	1		
ME preparation self study	1	10	10	FE preparation	1	10	10		
TOTAL :							120.0		
Recommended ECTS Credit (Total Hours / 30) :							4		



EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
				T	A	L			
COMV121	PHYSICS I/ PHYSICS		Compulsory	3	0	0	3	6	Wednesday 09.00-12.00
Prerequisite			Prerequisite to						
Course Lecturer		Assist. Prof Dr Nemika CELLATOĞLU				Office Hours Schedule		TUESDAY 16.00-17.00	
E-mail		ncellatoglu@eul.edu.tr				Office / Room No		AS306	
Phone		3501				Phone			
Teaching Assistant						Office / Room No		3501	
Catalogue Descriptions		This course aims to introduce the fundamental concepts of physics necessary for engineering science and to provide essential background for engineering students. The course provides deep understanding about kinematics and dynamics of one dimensional, two dimensional, circular and rotational motion.							
Objectives		The main aim of this course is to introduce the fundamental concepts of motion necessary for engineering science and to provide essential background for engineering students.							
Learning Outcomes		On successful completion of this course, all students will have developed knowledge and understanding of: (1) an ability to translate, interpret and extrapolate important scientific models and laws governing classical mechanics, (2) an ability to demonstrate critical thinking and problem solving skills in the area of physics, (3) an ability to perform mathematical modeling of basic problems and establish their analytic solutions in field of classical mechanics, (4) an understanding of the connection of course material to real life applications.							
Programme Outcome Relations		PO1: 5 PO2: 4 PO3: 1 PO4: 1 PO5: 1 PO6: 1		PO7: 1 PO8: 1 PO9: 1 PO10: 1 PO11: 1		(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.			
Textbooks and/or References		1 Serway, Physics for Scientists and Engineers with Modern Physics, 9/e 2 Halliday and Resnick, Fundamentals of Physics 3 Sears and Freedman, University Physics, 10/e 4 Gettys, Keller and Skove, Physics: Classical and Modern							
WEEK	Date	TOPICS						Reference No - Section	
Week 1	24.09.2025	Introduction						Ref. 1 : 1.1,1.2,1.3,1.4,1.5,1.6	
Week 2	01.10.2025	Kinematics in One Dimension: Distance, displacement, average velocity, average acceleration, instan. Velocity and acceleration						Ref. 1 : 2.1, 2.2,2.3,2.4	
Week 3	08.10.2025	Kinematics in One Dimension with constant acceleration: , motion on x-axis and Properties of motion on y-axis						Ref. 1 : 2.5, 2.6, 2.7, 2.8	
Week 4	15.10.2025	Vectors: Unit Vector Representation and Mathematical Operations with Vectors						Ref. 1 : 3.1, 3.2, 3.3, 3.4	
Week 5	22.10.2025	Kinematics in Two Dimension: Properties of Projectile Motion						Ref. 1 : 4.1, 4.2, 4.3, 4.4, 4.5, 4.6	
Week 6	5.11.2025	Laws of Motion: First, Second and Third Law of Newton						Ref 1 : 5.1, 5.2, 5.3, 5.4, 5.5	
Week 7	12.10.2025	Applications of Newton's Laws						Ref 1 : 5.6, 5.7, 5.8	
Week 8	19.10.2025	Dynamics of Circular Motion							
Week 9	25.10-16.11.2025	Midterm(s)						Ref 1 : 6.1 , 6.2, 6.3, 6.4	
Week 10	26.11.2025	Work and Energy						Ref 1 : 7.1, 7.2, 7.3 7.4, 7.5, 7.6, 7.7, 7.	
Week 11	03.12.2025	Definition of Mechanical Energy, Potential Energy, Kinetic Energy and Conservation of Mechanical Energy						Ref 1:8.1, 8.2, 8.3, 8.4, 8.5	
Week 12	10.12.2025	Linear Momentum and Collisions: Definition of Linear Momentum, Conservation of Momentum in Collisions (Elastic, inelastic collisions)						Ref1: 9.1- 9.8	
Week 13	17.12.2025	Properties of Rotational Motion: Kinematics of Rotational Motion						Ref1 : 10.1-10.9	
Week 14	24.12.2025	Rotational Kinetic Energy, Torque and Angular Mometum						Ref1 :11.1- 11.4	
Week 15	31.12.2025	REVISION							
Week-16/17		FINALS							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1		40	40.0				
	Semester Evaluation			60					
	Midterm(s)	2		60	60.0				
	Quiz(zes)								
	Project(s)								
	Homework(s)								
	Laboratory work(s)								
Attendance									
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecturing hours (TLH)	14	42	Homework						
TLH self study	14	70	Project						
Quiz (Q)	2	2	Presentation						
Q preparation self study	1	15	Seminar						
Laboratory (L)			Tutorial						
L preparation work									
Midterm exam (ME)	1	2	Final exam (FE)	1	1.5				
ME preparation self study	1	20	FE preparation self study	1	20				
TOTAL :					173				
Recommended ECTS Credit (Total Hours / 30) :					6				

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Engineering"								
"Civil Engineering"								
SYLLABUS								
2025-2026 Fall Semester								
Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
CNTE207	Materials Science	Compulsory	3	0	3	3	5	Thursday 09:00-12:00
Prerequisite	-		Prerequisite to			-		
Course Lecturer	Prof. Dr. Ertuğ Aydın			Office Hours Schedule		Tuesday 10:00-11:00 Wednesday 10:00-11:00 Friday 10:00-11:00		
E-mail	eraydin@eul.edu.tr , eaertugaydin@gmail.com			Office / Room No		AS313		
Phone	2505			Phone		-		
Teaching Assistant(s)	-			Office / Room No		-		
E-mail	-							
Catalogue Descriptions	Engineering requirements of materials; the structure of matter; atomic arrangements, structural imperfection, atom movements. Mechanical properties of materials. Concepts of force, stress, deformation and strain; elastic, and plastic behavior; viscosity; rheological models. Creep, brittleness, ductility, hardness, fatigue, toughness, resilience, and damping characteristics of materials							
Course Objectives	The objective of this course is to provide information about materials science that aims at linking the structure and properties of materials on the basis of the principles of chemistry, physics and mechanics of materials. The selection of appropriate materials based on physical and mechanical properties.							
Learning Outcomes	The student will be able to attain the following learning outcomes for this course: 1. Knowledge of computational materials science 2. the ability to integrate understanding of the scientific and engineering principles 3. Understand the stress-strain diagrams, fatigue and creep properties of materials 4. analyze and understand the deformation of materials under time and temperature							
Programme Outcome Relations	PO1: 4 PO2: 4 PO3: 1 PO4: 1 PO5: 1 PO6: 1		PO7: 1 PO8: 3 PO9: 1 PO10: 1 PO11: 1		(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.			
Textbooks and/or References	1 William D. Callister, Jr., An Introduction to Materials Science and Engineering, John Wiley & Sons, Inc., 2020 2 Smith, W. F., Principles of Materials Science and Engineering, 2018 3 Van Vlack, L. H., Materials Science for Engineers, 2018 4 William D. Callister, Jr. & David G. Rethwisch, Callister's Materials Science and Engineering 10th Edition, 2020							
WEEK	Date	TOPICS					Reference No - Section	
Week 1	23.09.2025	Introduction					1:1.1,1.2,1.3	
Week 2	30.09.2025	The structure of matter, Crystal structure					1:2.1,2.2,2.3	
Week 3	09.10.2025	Crystal structure					1:2.4,2.5,2:2.1,2.2	
Week 4	16.10.2025	Crystal structure					3:3.1,4:3.1,3.2	
Week 5	23.10.2025	Amorphous structure					1:5.1,5.2, 5.3,4:4.1	
Week 6	30.10.2025	Structural imperfections and atom movements					4:4.1,4.2	
Week 7	06.11.2025	Concepts of force, stress, deformation and strain					4:4.3, 4.4	
Week 8	8.11-16.11.2025	MIDTERM WEEK					-	
Week 9	20.11.2025	Concepts of force, stress, deformation and strain					1:6.6,6.7	
Week 10	27.11.2025	Selection of Materials					1:6.4,6.5	
Week 11	04.12.2025	Mechanical properties of materials					1:7.1,7.2,7.3	
Week 12	11.12.2025	Mechanical properties of materials					2:6.3,6.4,4:6.1,6.2	
Week 13	18.12.2025	Fatigue					1:8.1,8.2	
Week 14	25.12.2025	Creep					2:6.1,6.2	
Week 15	30.12.2025	selected questions					-	
Week 16	03.01-11.01.2026	FINAL EXAM WEEK					-	
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1	03.01-11.01.2026	40	40			
	Semester Evaluation			60				
	Midterm(s)	1	8.11-16.11.2025	25	25,0			
	Quiz(zes)	2	During Lecture hours	15	15,0			
	Project(s)							
	Homework(s)	1		20	20,0			
	Laboratory							
Other								
*** Lifelong Learning Programme (LLP) ***				Language of Instruction:		English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical Hours	14	42,0	Applied Hours					
Midterm	1	12,0	Final	1	30,0			
Quiz	2	10,0	Project					
Laboratory			Homework					
Atelier			Seminar					
Homework	1	12,0	Presentation					
other			Self Study	15	45,0			
TOTAL :						151,0		
Recommended ECTS Credit (Total Hours /30) :							5	