Course Syllabus

Code - Course Title	**MAT827 - General Mathematics**
Course Type	I. SEMESTER
Laboratory + Practice	2+0
ECTS	**2.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	ÖĞR. GÖR. MELİHA NUR ÖZEN BORA

Mode of Delivery	Face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	-
Recommended Resources	Basic math books, Commercial math books
Work Placement	-

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Number Sets; Set of counting numbers, Set of natural numbers, set of ıntegers, set of rational numbers, Set of real numbers	
Week - 2		Operatıons In Integer And Rational Numbers; Order of priority in transactions, Fractions types (simple fraction, compound fraction, ınteger fraction), Converting compound fraction to ınteger fraction, converting ınteger fractions to compound fractions, Four operations with fractions Decimals; Writing fractions as decimals, Four operations with decimals; addition and subtraction, Multiplication and division	
Week - 3		Easy Calculatıon Techniques; Divisibility of numbers, Multiplication in numbers checksums, Calculator use Percentage Calculatıons; Writing numbers given in percentage format as decimal fractions, Finding the percentage of a given number, Calculation of percent amount, Calculation of percent share, Calculating the base number, Calculation of value added tax (Vat)	
Week - 4		Ratio And Proportıon Accounts; Right proportion, Inverse proportion, Compound proportion, Proportional division in company accounts	
Week - 5		Buyıng, Costs, Sales And Profıt; Profit-Loss calculations over cost, Discount sales	
Week - 6		Equatıons; First order equations with one unknown, First order equations with two unknowns, Solutions by elimination method Logarıthm And General Features; Exponential numbers and logarithms of exponential numbers, Logarithm of multiplication, logarithm of the division, Variable-based logarithm	
Week - 7		Quadratic equations with one unknown; factoring, finding roots with delta.	
Week - 8		Midterms	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 9		Interest Accounts; Calculation of simple interest, Calculation of ınterest amount, Calculation of the principal, Calculation of time at interest, Calculation of ınterest rate (percentage), Calculation of the maturity values, Calculation of principal when the maturity value is given, Calculating time when the maturity value is given, Calculating the ınterest when the maturity value is given, Compound interest calculations	
Week - 10		Logarithm; Exponential numbers and logarithm of exponential numbers, Logarithm of multiplication, Logarithm of quotient, Logarithm with different bases. Compound interest; Method and calculations	
Week - 11		Dıscount Accounts; Simple discount calculation types. Annuity account; Normal and advance annuity.	
Week - 12		Mıxıng, Composıtıon And Composıtıon Accounts	
Week - 13		In Plane Shapes Angle-Perıpheral-Fıeld; Triangle, Circle,	
Week - 14		Area And Volume Calculatıon In Geometrıc Shapes; Cube, Prisms, Cylinder, Pyramid, Cone	

Learning Outcomes

#	Learning Outcome
1	Recognize basic number sets
2	Can make ratio and proportion calculations
3	Gains basic knowledge and skills about solving equations.
4	Knows logarithm and its general properties
5	Calculates simple and compound interest
6	Gain knowledge and skill of calculating the circumferences of planar surfaces

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	30
Final Exam	1	50
Homework	1	20
	Sum (%)	**100**