

VOCATIONAL SCHOOL
OCCUPATIONAL HEALTH AND SAFETY PROGRAM

Course Code		Course Name		Credit	ECTS Value	
MAT120		Mathematics		2 (2-0-2)	5	
Prerequisite Courses		None				
Course Language		Turkish	Course Delivery Method:		Face-to-Face	
Course Type and Level		Compulsory /1st Year /Fall Semester				
Instructor's Title, Name and Surname			Course Hours		Office Hours	
Lecturer Betül AKTAŞ			Wednesday 13:25-14:55		Monday 11:00-12:00	
Course Coordinator		Lecturer Betül AKTAŞ				
Course Objective						
Course Learning Outcomes	Upon successful completion of this course, the student will be able to;				Course Objective	
					Course Objective	Course Objective
	1	Defines mathematical concepts.			6	5
	2	Classifies number sets.			6	5
	3	Explains the relationships between numbers.			6	5
	4	Provides quantitative examples for everyday discussion topics.			6	5
	5	Applies procedural steps in the correct order.			6	5
	6	Examines the steps of operations, analyzes the process step by step, and develops an analytical perspective.			1,6	4,5
	7	Discovers the connections among number sets and analyzes their relationships.			1,6	4,5
Course Content:		In mathematics education, in addition to helping students understand the meanings of mathematical formulas, it is aimed to develop analytical thinking skills, effectively use mental calculation and estimation abilities, make inferences related to induction and deduction, and build the capacity to develop different perspectives on problems encountered in professional life.				
Course Content: (Weekly Course Plan)						
Week	Topic		Preparation		Teaching Methods and Techniques	
1	Basic Concepts		Textbook, Slides		Lecture	
2	Numbers		Textbook, Slides		Lecture, Problem Solving	
3	Rational Numbers		Textbook, Slides		Lecture, Problem Solving	
4	Exponential Numbers		Textbook, Slides		Lecture, Problem Solving	
5	Ratio and Proportion		Textbook, Slides		Lecture, Problem Solving	
6	Percentage Calculation		Textbook, Slides		Lecture, Problem Solving	
7	Types of Interest and Interest Calculation		Textbook, Slides		Lecture, Problem Solving	
8	Midterm Exam		All Course Notes		Application	
9	Midterm Exam		All Course Notes		Application	

10	Algebraic Operations and Identities	Textbook, Slides	Lecture, Problem Solving
11	First-Degree Equations with One Variable	Textbook, Slides	Lecture, Problem Solving
12	First-Degree Equations with Two Variables	Textbook, Slides	Lecture, Problem Solving
13	Functions	Textbook, Slides	Lecture, Problem Solving
14	Graph Reading	Textbook, Slides	Lecture, Problem Solving
15	Example Question Solving	All Course Notes	Project Solving
16	General Topic Review	All Course Notes	Problem Solving
17	Final Exam	All Course Notes	Application
18	Final Exam	All Course Notes	Application

Course Resources

Textbook	Meslek Yüksekokulları için Matematik; Öğr.Gör.Dr.Birkan Durak; Nobel Yayınevi; 978-625-406-872-0; Ankara; 2021
Recommended Resources	İşletme Matematiği ,Tununay Yılmaz, Nobel Yayın Dağıtım,2006 İşletme, İktisat ve Sosyal Bilimler için Matematik, Ergün Eroğlu, Dora Yayıncılık, 2014

Course Assessment and Evaluation

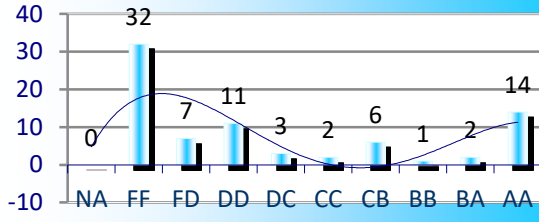
Activities	Number	Contribution	Notes
Midterm Exam	1	%40	Written Exam
Final Exam	1	%60	Written Exam

ECTS Table

Content	Number	Hour	Total
Course Duration	14	2	28
Out-of-Class Work	14	3	42
Internet Browsing, Library Study	10	2	20
Topic Comprehension Applications	4	3	12
Midterm Exam (Midterm Exam Duration + Midterm Exam Preparation)	1	18	18
Final Exam (Final Exam Duration + Final Exam Preparation)	1	25	25
Total:			145
Total / 30:			=145/30=4,83
ECTS Credit:			5

Past Term Achievements

**2024-2025 SPRING SEMESTER
MAT120-MATHEMATICS**



**2023-2024 SPRING SEMESTER
MAT120-MATHEMATICS**

