

Vocational School of Health Services / Opticianry
2023 - 2024 Academic Year
INTRODUCTION to BASIC MATHEMATICS
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
INTRODUCTION to BASIC MATHEMATICS	OPT1263390	Spring Semester	2+0	2	4
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Lect. Hüseyin DEMİR				
Name of Lecturer(s)	Lect. Hüseyin DEMİR				
Assistant(s)					
Aim	Students are aimed to have the necessary qualifications and background to be able to solve themathematical problems encountered in real life situations.				
Course Content	This course contains; Basic concepts,Clusters,Division Operation and Divisibility Rules,Largest Common Divisor (EBOB) and Least Common Divisor (EKOK),Rational Numbers and Number Systems,Exponential numbers,Radical numbers,Factorization,Ratio-Proportion,Solving Equations,Number Problems,Fraction Problems,Age Problems,Profit and Loss Problems.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Use basic math techniques.			12, 16, 9	A	
Teaching Methods	12: Problem Solving Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Basic concepts	Pre-Reading			
2	Clusters	Pre-Reading			
3	Division Operation and Divisibility Rules	Pre-Reading			
4	Largest Common Divisor (EBOB) and Least Common Divisor (EKOK)	Pre-Reading			
5	Rational Numbers and Number Systems	Pre-Reading			
6	Exponential numbers	Pre-Reading			
7	Radical numbers	Pre-Reading			
8	Factorization	Pre-Reading			
9	Ratio-Proportion	Ön Okuma			
10	Solving Equations	Pre-Reading			
11	Number Problems	Pre-Reading			
12	Fraction Problems	Pre-Reading			
13	Age Problems	Pre-Reading			
14	Profit and Loss Problems	Pre-Reading			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Badem, A. N., Tin, A.T., "Mathematics I", Dokuz Eylül University Faculty of EngineeringMathematics for Business, Economics and Social Sciences, Ergün Eroğlu, Dora Publishing, 2013