



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		New Approaches to Teaching Elementary Mathematics							
Course Code		MTE505		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 (<i>Hours</i>)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		Current theory of mathematics education, learn and implement techniques and approaches							
Course Content		A course usually being feared, hated math class is the biggest reason the methods and techniques appropriate to the course and are not used. Implementation of current and new approaches to teaching and learning of mathematics is important.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	30
Final Examination	1	70

Recommended or Required Reading

1	1. Eğitimde yeni yönelimler. Demire, Ö.
2	2. Matematik Öğretiminde Alternatif Etkinlikler "Yaratıcı Drama Uygulamaları". Özsoy, N.
3	3. Eğitimde Yeni Değerler. Özden, Y.
4	Aktif Öğrenme. Açıkgöz, K.Ü.
5	Matematik eğitimi ile ilgili güncel makaleler, dergiler

Week	Weekly Detailed Course Contents	
1	Theoretical	The methods used in teaching mathematic
2	Theoretical	Multiple intelligence and mathematics teaching
3	Theoretical	Constructivism and mathematics teaching
4	Theoretical	Plain teaching of Mathematics Lecture, question and answer, the presentation of teaching method.
5	Theoretical	Talk in teaching mathematics, problem solving, problem-based learning,
6	Theoretical	Cooperative learning in mathematics teaching, project-based learning
7	Theoretical	Brain-based learning in mathematics teaching, mastery learning, teaching mathematics in realistic
8	Intermediate Exam	Midterm exam
9	Theoretical	Active learning in mathematics teaching
10	Theoretical	Micro-teaching in teaching mathematics
11	Theoretical	Critical thinking, reflective thinking,
12	Theoretical	Teaching with the teaching of Mathematics Video
13	Theoretical	Internet-based learning in mathematics teaching/ Distance education is the teaching of Mathematics
14	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	5	3	112
Midterm Examination	1	38	2	40
Final Examination	1	46	2	48
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	Learning techniques used in teaching school mathematics
2	Learning methods used in teaching school mathematics
3	Current theory and practice in teaching and learning mathematics.
4	To learn and apply the strategies in teaching mathematics.
5	To investigate recent strategy, method and techniques that used in mathematics instruction

Programme Outcomes (*Mathematics Education Master*)

1	Learns sufficient theoretical knowledge in the field of mathematics education
2	Uses theoretical knowledge in educational settings
3	Integrates mathematics education knowledge with the other disciplines and products functional knowledge
4	Uses information and communication technologies efficiently in conceptual learning
5	Finds scientific solutions to the problems in the field of mathematics education
6	Evaluates the knowledge critically in the field
7	Participates team projects in the mathematics education field
8	Shares national and international data in the field of mathematics education
9	Comprehends and evaluates science-technology-society and mathematics interactions
10	Comprehends mathematics under the ethical values and takes account of ethical considerations
11	Follows the current development in the mathematics education field
12	Develops strategical plans and evaluates them in the context of quality processes
13	Adopts lifelong learning strategies to his/her studies

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	5	5	5	4	4
P2	5	5	4		
P3	3	5	4		
P4	3	5	5		
P5	3	5	5		
P6	3	5	5		
P7	3	4	5		
P8	3	4	5		
P9	3	5	4		
P10	3	5	5		
P11	3	4	5		
P12	3	5	5		
P13	3	5	5		

