



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
MATHEMATICS AND SCIENCE EDUCATION
SCIENCE EDUCATION
SCIENCE EDUCATION MASTER
COURSE INFORMATION FORM

Course Title	Fields of Specialization I								
Course Code	UZM701			Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 (Hours)	Theory	8	Practice	0	Laboratory	0
Objectives of the Course	After the student's thesis topic is determined, the latest scientific developments related to the topic of the thesis, theoretical information including publications, studies conducted to finalize the article review and thesis management and processing of courses that can help these topics								
Course Content	Scientific article scanning, selection of resources, organizing ideas, making article critics, presentation techniques, critical thinking and writing								
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)	<p>Assoc. Prof. Abdullah ÖZDEMİR, Assoc. Prof. Abdullah YALÇIN, Assoc. Prof. Adem KARAKAŞ, Assoc. Prof. Ahmet BİLDİREN, Assoc. Prof. Ahmet TOKSOY, Assoc. Prof. Altuğ ÖZDEN, Assoc. Prof. Arzu GÜLER, Assoc. Prof. Aslı İCİL TUNCER, Assoc. Prof. Aslı YENİPAZARLI, Assoc. Prof. Atakan HATİPOĞLU, Assoc. Prof. Aydın GERSİL, Assoc. Prof. Aynur CİVELEK, Assoc. Prof. Aysun SARİBEY HAYKIRAN, Assoc. Prof. Ayşe YÜKSEL OZAN, Assoc. Prof. Bedriye Tuğba KARAASLAN, Assoc. Prof. Berfin KART, Assoc. Prof. Berrin GÜZEL, Assoc. Prof. Bertan AKYOL, Assoc. Prof. Bülent Sarper AĞIR, Assoc. Prof. Cengiz İskender ÖZKAN, Assoc. Prof. Cengiz ÜNSAL, Assoc. Prof. Çağrı KÖROĞLU, Assoc. Prof. Emre AKIN, Assoc. Prof. Erkan SALAN, Assoc. Prof. Ersen YAZICI, Assoc. Prof. Esin ACAR, Assoc. Prof. Evrim DERELİ FİDAN, Assoc. Prof. Filiz ADANA, Assoc. Prof. Funda ÇONDUR, Assoc. Prof. Gizem DÖNMEZ YALÇIN, Assoc. Prof. Göksel ERBAŞ, Assoc. Prof. Gürhan KELEŞ, Assoc. Prof. Hacı Murat ŞAHİN, Assoc. Prof. Hakan ARSLANER, Assoc. Prof. Hakan HOTUNLUOĞLU, Assoc. Prof. Hamza KAHRİMAN, Assoc. Prof. Hasan GÜLTEKİN, Assoc. Prof. Hatice Hale BOZKURT, Assoc. Prof. Hilal BEKTAŞ UYSAL, Assoc. Prof. İbrahim AKIN, Assoc. Prof. İçten Duygu ÇALLI, Assoc. Prof. Mehmet GÜLTEKİN, Assoc. Prof. Mehmet KOÇ, Assoc. Prof. Mehtap KILIÇ EREN, Assoc. Prof. Meltem YALIN UÇAR, Assoc. Prof. Merve İrem YAPICI, Assoc. Prof. Mihrican ERDEM, Assoc. Prof. Murat AYDAŞ, Assoc. Prof. Murat ÇEKİLMEZ, Assoc. Prof. Murat Necip ARMAN, Assoc. Prof. Mustafa Özgür SEÇİM, Assoc. Prof. Necmiye CÖMERTLER, Assoc. Prof. Nural EROL, Assoc. Prof. Nursabah SARIKAVAKLI, Assoc. Prof. Osman Orkan ÖZER, Assoc. Prof. Öner CANAVAR, Assoc. Prof. Özge ÇEVİK, Assoc. Prof. Özlem BALKIZ, Assoc. Prof. Özlem OLTULU, Assoc. Prof. Özlem TÜTÜNCÜLER BİRCAN, Assoc. Prof. Öznur ÖZDAMAR GIOVANIS, Assoc. Prof. Rahşan ÇEVİK AKYIL, Assoc. Prof. Reşat KARTAL, Assoc. Prof. Safiye ÖZVURMAZ, Assoc. Prof. Saime SEFEROĞLU, Assoc. Prof. Savaş DUMAN, Assoc. Prof. Selin Muradiye AKÇAY, Assoc. Prof. Selman SAĞLAM, Assoc. Prof. Selvinaz SAÇAN, Assoc. Prof. Serap ÜNÜBOL AYPAK, Assoc. Prof. Serdal ÖĞÜT, Assoc. Prof. Sezai KOÇYİĞİT, Assoc. Prof. Soner ALADAĞ, Assoc. Prof. Soner Sertan KARA, Assoc. Prof. Sündüz Özlem ALTINKAYA, Assoc. Prof. Şerife AK, Assoc. Prof. Tendü Hilal GÖKTUĞ, Assoc. Prof. Tolga ÜNÜVAR, Assoc. Prof. Tuncay Ercan SEPETCİOĞLU, Assoc. Prof. Tuncay SAYGIN, Assoc. Prof. Türker SARAÇOĞLU, Assoc. Prof. Utku YAPICI, Assoc. Prof. Yaşar KUZUCU, Assoc. Prof. Yıldız DENAT, Lec. Abdullah AKPINAR, Lec. Ali BİLGENOĞLU, Lec. Ali GÜREŞ, Lec. Ali PETEK, Lec. Alper KARTAL, Lec. Alper YILMAZ, Lec. Alper YORULMAZ, Lec. Arzu TANIŞ ÖZÇELİK, Lec. Aydın ERÖN, Lec. Ayfer METİN TELLİOĞLU, Lec. Ayşe Arzu KORUCU, Lec. Ayşe ELİTOK KESİCİ, Lec. Ayten CAN, Lec. Aziz BOSTAN, Lec. Barış GÜRİSOY, Lec. Belgin YILDIRIM, Lec. Berker BULUT, Lec. Berrin GÜNER, Lec. Beste DİNÇER, Lec. Bilge DOĞANLI, Lec. Bilgen KIRAL, Lec. Birgül CAMBAZOĞLU, Lec. Burak FEYZİOĞLU, Lec. Bülent ÇELİK, Lec. Bülent YILDIZ, Lec. Cebrail MEYDAN, Lec. Cenk AKYÜZ, Lec. Çağatay DERECELİ, Lec. Çiğdem ALP PAMUK, Lec. Çisem BULUT ALBAYRAK, Lec. Deniz ÖZEN ÜNAL, Lec. Devrim BEYAZ, Lec. Dilan TÜYSÜZ, Lec. Duriye Esra ANGIN, Lec. Elvan AKTÜRK HAYAT, Lec. Elvan KESER, Lec. Emre ERDAN, Lec. Emre SEVİNDİK, Lec. Engin ÇAKIR, Lec. Erkmen Tuğrul EPİKMEN, Lec. Ersel YILMAZ, Lec. Esin ERGİN, Lec. Fatih EYDURAN, Lec. Fatih Mehmet YILMAZ, Lec. Ferhat KİREMIT, Lec. Feride ÖNCAN SÜMER, Lec. Funda ODUNCUOĞLU, Lec. Gözde Başak ÖZTÜRK, Lec. Gözde İNAL KIZILTEPE, Lec. Gülnur KARAKAŞ TANDOĞAN, Lec. Gülsüm ALKAN, Lec. Günver GÜNEŞ, Lec. Hakan ATAY, Lec. Hale UYAR HAZAR, Lec. Halil MUTİOĞLU, Lec. Halil TANIR, Lec. Hasan ERDOĞAN, Lec. Hasan ULUKAN, Lec. Hatice AKDAĞ, Lec. Hatice YILDIZ, Lec. Hulusi AKÇAY, Lec. Hüseyin Bilgin BİLGİÇ, Lec. Hüseyin GÜL, Lec. Hüseyin UYSAL, Lec. İbrahim GÖKDAŞ, Lec. Kadri Murat GÜRSES, Lec. Kemal Ramazan HAYKIRAN, Lec. Keziban AMANAK, Lec. Levent ATATANIR, Lec. Mehmet BAŞARAN, Lec. Mehmet Eren UZ, Lec. Mehmet Metin DAM, Lec. Mehmet Mustafa KARACA, Lec. Mehmet ULUTAŞ, Lec. Mehmet Umut TUNCER, Lec. Mehtap KIZILKAYA, Lec. Melek Ece ÖNCÜER ÇİVİCİ, Lec. Meltem ÇENGEL SCHOVILLE, Lec. Meltem İŞİK, Lec. Mesut ÇAKIR, Lec. Mesut GÜNERENÇ, Lec. Murat Kemal AVCI, Lec. Musa GÜMÜŞ, Lec. Mustafa Ali KAPTAN, Lec. Mustafa ASKER, Lec. Mustafa ÇELİK, Lec. Nilgün BENLİ, Lec. Nilgün SOFUOĞLU KILIÇ, Lec. Nisa BAŞARA BAYDİLEK, Lec. Nurdan GEZER, Lec. Nurettin TOPUZ, Lec. Nükhet KIRAĞ, Lec. Okan ARSLAN, Lec. Olcay BOYACIOĞLU, Lec. Onur İÇÖZ, Lec. Ömer ÖZPINAR, Lec. Pelin ERDAL AYTEKİN, Lec. Rafet DİNÇ, Lec. Rahşan ÇAM, Lec. Sadık BÜYÜKYÖRÜK, Lec. Sedat AKKURNAZ, Lec. Seher SARIKAYA KARABUDAK, Lec. Selcen ÖNCÜ, Lec. Selda BULCA, Lec. Serap GÖKÇEK ESKİN, Lec. Serdar ÇİFTÇİ, Lec. Serdar ÜNAL, Lec. Serhan ULUSAN, Lec. Sevil ÖZCAN, Lec. Sibel ŞEKER, Lec. Sultan ÖZKAN, Lec. Şaban ERTEKİN, Lec. Şahin BULUT, Lec. Şansel ÖZPINAR, Lec. Şebnem ÖZKAN, Lec. Tacettin Hakan YENAL, Lec. Taner ARABACIOĞLU, Lec. Taner BULUT, Lec. Tuğba AKIN, Lec. Tuğrul</p>								



AYYILDIZ, Lec. Turgay ERAY, Lec. Uğur TATLISUMAK, Lec. Umur EVLİMOĞLU, Lec. Umur Tolga GÜMÜŞ, Lec. Ümit ÖZYILMAZ, Lec. Yakup Onur KOCA, Lec. Yakup YAZICI, Lec. Yelda Özlem KÖLGELİER, Lec. Yılmaz ERDEM, Lec. Zehra EĞE, Prof. Abdullah TANRISEVDİ, Prof. Adem ÖZDEMİR, Prof. Ahmet Can BAKKALCI, Prof. Ahmet KILIÇKAN, Prof. Ali BELGE, Prof. Ali Rıza ERDEM, Prof. Alpaslan GÖKÇİMEN, Prof. Aslı SARAÇOĞLU, Prof. Atakan KOÇ, Prof. Atila YÜKSEL, Prof. Aydın ÇOBAN, Prof. Aydın ÜNAY, Prof. Ayhan YILDIZ, Prof. Ayşe Demet KARAMAN, Prof. Ayten TAŞPINAR, Prof. Barış KARA, Prof. Bülent BOZDOĞAN, Prof. Bülent DENİZ, Prof. Bülent ULUTAŞ, Prof. Cafer TURGUT, Prof. Caner IŞIK, Prof. Cavit KUM, Prof. Cemal İYEM, Prof. Cesur EKİZ, Prof. Cumali ÖKSÜZ, Prof. Çiğdem KILIÇASLAN, Prof. Çiğdem YENİSEY, Prof. Deniz AKTAŞ UYGUN, Prof. Deniz ÇOBAN, Prof. Dide KILIÇALP KILINÇ, Prof. Dilşen İNCE ERDOĞAN, Prof. Emine Didem EVCİ KIRAZ, Prof. Emre CENGİZ, Prof. Engin ERTAN, Prof. Ercan YEŞİLIRMAK, Prof. Ergün Ömer GÖKSOY, Prof. Erkut TURAN, Prof. Eyyüp Mennan YILDIRIM, Prof. Faik Ekmelel TEKİNİTAŞ, Prof. Fatih Mehmet ŞİMŞEK, Prof. Fatma DEMİRKIRAN, Prof. Fatma Neval GENÇ, Prof. Ferit ÇOBANOĞLU, Prof. Filiz KÖK, Prof. Fuat SEZGİN, Prof. Funda KIRAL, Prof. Gamze BAŞBÜLBÜL, Prof. Gonca GÜNVER DALKILIÇ, Prof. Gökhan ÇESUR, Prof. Gönül AYDIN, Prof. Güneş ERDOĞAN, Prof. Hacı Halil BIYIK, Prof. Halil Güner SEFEROĞLU, Prof. Halil KIRNAK, Prof. Halim ESEN, Prof. Hatice EROL, Prof. Hatice ÖZENOĞLU, Prof. Hayrettin ÇETİN, Prof. Hilal AKTAMIŞ, Prof. Hudai YILMAZ, Prof. Hülya ARSLANTAŞ, Prof. Hüseyin BAŞPINAR, Prof. Hüseyin ÜRETEN, Prof. Hüseyin VOYVODA, Prof. Hüseyin YILMAZ, Prof. Hüsnüye ÇALIŞIR, Prof. İbrahim CEMAL, Prof. İbrahim ÇAKMAK, Prof. İbrahim YALÇIN, Prof. İrfan YAVAŞOĞLU, Prof. İsmail BÖGREKCI, Prof. İsmet ATEŞ, Prof. Kemal ERGİN, Prof. Kerem URAL, Prof. Kerim GÜNDOĞDU, Prof. Kürşat KARACABEY, Prof. Mehmet Dinçer BİLGİN, Prof. Mehmet Erdemir GÜNDOĞMUŞ, Prof. Mehmet Nedim DOĞAN, Prof. Mehmet Tolga TAN, Prof. Mete KARACAOĞLU, Prof. Muhammet Bilal ARIK, Prof. Muhammet Emin GÜNAY, Prof. Murat YILMAZ, Prof. Musa Şamil AKYIL, Prof. Mustafa AKŞİT, Prof. Mustafa Ali KAYNAK, Prof. Mustafa Ali SARILI, Prof. Mustafa ÖZAT, Prof. Mustafa SÜRMEK, Prof. Mürsel ÖZDOĞAN, Prof. Necdet DAĞDELEN, Prof. Nesrin ÖZSOY, Prof. Nuh KILIÇ, Prof. Oğuz TÜRKOZAN, Prof. Olcay ARABACI, Prof. Orhan KARACA, Prof. Osman Eralp ÇOLAKOĞLU, Prof. Osman EREKUL, Prof. Osman Nuri ÖZDOĞAN, Prof. Osman PEKER, Prof. Pınar DEMİRCİOĞLU, Prof. Rauf Onur EK, Prof. Recep ÖZMERDİVENLİ, Prof. Recep TEKELİ, Prof. Renan TUNALIĞLU, Prof. Ruhi SARP KAYA, Prof. Ruken AKAR VURAL, Prof. Saadettin YILDIRIM, Prof. Sacit Hadi AKDEDE, Prof. Sakine BOYRAZ, Prof. Sarhan SAKARYA, Prof. Selim SEKKİN, Prof. Serap AÇIKGÖZ, Prof. Serdar KOCA, Prof. Serdar PAŞA, Prof. Serkan ÖNCÜ, Prof. Sezgin DEMİR, Prof. Suat ATEŞLİER, Prof. Sultan BAYSAN, Prof. Şahabettin YALÇIN, Prof. Şule Yurdağül ÖZSOY, Prof. Şükrü KIRKAN, Prof. Tanju DEMİR, Prof. Tülin AKŞİT, Prof. Tülin KARAGENÇ, Prof. Uğur ŞİRİN, Prof. Ümit TATLİCAN, Prof. Yavuz KILIÇ, Prof. Yunus ÇERÇİ, Prof. Yusuf KADERLİ, Prof. Yücel BOZDAĞLIOĞLU, Prof. Zekiye KARAÇAM, Prof. Zeynel DALKILIÇ, Prof. Zöhre POLAT

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Quiz	1	20
Attending Lectures	15	20
Report	1	60

Recommended or Required Reading

1	İlgili Enstitü Tez yazım kılavuzu
2	Seçilen tez konusuyla ilgili ders notları
3	Tez konusuyla ilgili ulusal ve uluslararası tüm kitap ve yayınlar
4	E-kitap ve internet kaynakları

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition and importance of specialization
2	Theoretical	How to make a preliminary study on scientific work in the field of specialization
3	Theoretical	Scientific study planning
4	Theoretical	Scientific study planning
5	Theoretical	Scientific study planning
6	Theoretical	To be able to reach scientific resources related to the field of specialization
7	Theoretical	Methodological information on the field of expertise
8	Theoretical	Methodological information on the field of expertise
9	Theoretical	Data collection methods related to the field of expertise
10	Theoretical	Data collection methods related to the field of expertise
11	Theoretical	Statistical evaluation methodology
12	Theoretical	To be able to write resources related to the field of specialization
13	Theoretical	How to write a scientific paper about the area of ??specialization
14	Theoretical	How to write a scientific paper about the area of ??specialization
15	Theoretical	How to write a scientific paper about the area of ??specialization



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	2	45
Assignment	4	3	2	20
Seminar	3	3	2	15
Project	2	5	5	20
Individual Work	10	5	5	100
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Learns the experience of the faculty members who have knowledge, experience and experience in the scientific field.
2	Has knowledge about scientific ethics and working discipline.
3	Gains the ability to evaluate and evaluate the current literature.
4	Students will be able to understand the theoretical knowledge about the thesis and follow the latest scientific developments.
5	Be able to make an article review about the thesis subject and turn the thesis topic into a project.
6	Students can write their thesis according to the rules of writing.

Programme Outcomes (Science Education Master)

1	To be able to have an expert theoretical knowledge within the field of science education.
2	To be able to transfer expert knowledge gained in science education into various instructional environment.
3	To be able to integrate science education knowledge with the other disciplines and product functional knowledge
4	To be able to use information and communication technologies efficiently in conceptual learning
5	To be able to find scientific solutions to the problems in the field of science education
6	To be able to evaluate the knowledge critically in the field
7	To be able to participate in team projects in the science education field
8	To be able to adopt lifelong learning strategies to his/her studies
9	To be able to use at least one foreign language efficiently in oral and verbal communication
10	To be able to share national and international data in the field of science education
11	To be able to comprehend and evaluate science-technology-society and environment interactions
12	To be able to comprehends science under the ethical values and take account of ethical considerations
13	To be able to use scientific information in the other domains that is gained in the masters field and have the transfer skills
14	To be able to follow the current development in the science education field
15	To be able to develop strategical plans and evaluate them in the context of quality processes

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

	L1	L2	L3	L4	L5	L6
P1		5		4		
P2		5		5		5
P3	5	5		5		5
P4	5	5		4		5
P5	5	5		5	5	5
P6	4	5	5	4	5	4
P7	5	5	5	5	5	5
P8	5	5	4		5	4
P9	5	5	5		5	5
P10	4	4	5		5	4
P11	5	4	4		4	
P12	4	4			5	
P13	5	4	4		4	
P14		4			4	
P15	5		4		4	

