



ANKARA YILDIRIM BEYAZIT ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
MALZEME MÜHENDİSLİĞİ BÖLÜMÜ
DERS LİSTESİ

1. Yarıyıl

Ders Kodu	Ders Adı	T+U+L	Zorunlu / Seçmeli	AKTS
MSE503	ADVANCES IN NANOCOMPOSITE TECHNOLOGY	3+0+0	Seçmeli	8
MSE507	POLYMERS FOR ADVANCED TECHNOLOGIES	3+0+0	Seçmeli	8
MSE517	SINTERING THEORY	3+0+0	Seçmeli	8
MSE519	THIN FILM COATING TECHNOLOGIES	3+0+0	Seçmeli	8
MSE523	PHASE DIAGRAMS IN ADVANCED MATERIALS	3+0+0	Seçmeli	8
MSE529	FRACTURE MECHANICS	3+0+0	Seçmeli	8
MSE535	ADVANCED THERMODYNAMICS OF MATERIALS	3+0+0	Seçmeli	8
MSE537	ADVANCED MATERIALS CHARACTERIZATION TECHNIQUES	3+0+0	Seçmeli	8
MSE539	BIOINSPIRED DESIGN AND PROCESSING OF MATERIALS	3+0+0	Seçmeli	8
MSE547	FUNDAMENTALS OF ELECTROCHEMICAL SCIENCE	3+0+0	Seçmeli	8
MSE551	QUANTUM BIOMIMETIC SENSORS	3+0+0	Seçmeli	8

2. Yarıyıl

Ders Kodu	Ders Adı	T+U+L	Zorunlu / Seçmeli	AKTS
FBE900	RESEARCH METHODS AND ETHICS	3+0+0	Zorunlu	8
FBE4000	STUDY FOR Ph.D QUALIFYING EXAM	0+0+0	Zorunlu*	30
FBE5000	THESIS PROPOSAL STUDY	0+0+0	Zorunlu*	30
MATH511	ADVANCED ENGINEERING MATHEMATICS I	3+0+0	Zorunlu*	8
MSE800	SPECIAL STUDIES	8+0+0	Zorunlu	8
MSE810	SEMINAR	0+2+0	Zorunlu	10
MSE820	MASTER' S THESIS / PhD DISSERTATION	0+0+0	Zorunlu	30
MSE506	COMPOSITE MATERIALS	3+0+0	Seçmeli	8
MSE510	PROCESSING AND APPLICATION OF POROUS CERAMICS	3+0+0	Seçmeli	8
MSE516	STEEL AND HARDENABILITY	3+0+0	Seçmeli	8
MSE520	CHEMICAL METALLURGY	3+0+0	Seçmeli	8
MSE530	ADVANCED CERAMIC PROCESSING	3+0+0	Seçmeli	8
MSE534	ADVANCED MATERIALS SCIENCE AND ENGINEERING	3+0+0	Seçmeli	8
MSE536	POLYMER MATERIALS AND RHEOLOGY	3+0+0	Seçmeli	8
MSE542	METHODS OF APPLIED MATHEMATICS	3+0+0	Seçmeli	8
MSE544	CORROSION AND CORROSION CONTROL	3+0+0	Seçmeli	8
MSE546	ELECTRICAL CHARACTERIZATION TECHNIQUES FOR SEMICONDUCTORS	3+0+0	Seçmeli	8
MSE548	DIFFUSION AND PHASE TRANSFORMATION IN METALS AND ALLOYS	3+0+0	Seçmeli	8
MSE550	BIOSENSORS: PHYSICAL AND CHEMICAL PROPERTIES	3+0+0	Seçmeli	8
MSE552	PHYSICAL FOUNDATION OF MATERIALS SCIENCE	3+0+0	Seçmeli	8
MSE554	METAL ADDITIVE MANUFACTURING	3+0+0	Seçmeli	8
MSE556	METAMATERIALS AND AUXETIC STRUCTURES	3+0+0	Seçmeli	8
MSE596	SUPERCONDUCTING MATERIALS AND APPLICATIONS	3+0+0	Seçmeli	8

*Bu dersler sadece doktora öğrencileri için zorunludur.