



# MUŞ ALPARSLAN ÜNİVERSİTESİ

Institute of Science

Matematik (Doktora)

Matematik (Doktora)

| 1.Semester Course Plan |  |       |                     |      |
|------------------------|--|-------|---------------------|------|
| Course Code            | Course Name  | T+A+L | Compulsory/Elective | ECTS |
| FBE800                 | Scientific Research Methods and Publication Ethics                           | 3+0+0 | Compulsory          | 5    |
| FBE900                 | Consulting   | 0+1+0 | Compulsory          | 0    |
| DMAT601                | Uygulamalı Reel Analiz I   | 3+0+0 | Elective            | 7    |
| DMAT603                | Riesz Uzayları I   | 3+0+0 | Elective            | 7    |
| DMAT605                | Banach Örgüleri I  | 3+0+0 | Elective            | 7    |
| DMAT607                | Vektör Uzayları Üzerindeki Topolojik Yapılar ve Uygulamaları I               | 3+0+0 | Elective            | 7    |
| DMAT609                | Adi Diferansiyel Denklemlerin Nümerik Çözümleri                              | 3+0+0 | Elective            | 7    |
| DMAT611                | Diferansiyel Denklemlerde Nümerik Analize giriş                              | 3+0+0 | Elective            | 7    |
| DMAT613                | Matlab ile Nümerik Metotlar  | 3+0+0 | Elective            | 7    |
| DMAT615                | Non-Linear Diferansiyel Denklemler   | 3+0+0 | Elective            | 7    |
| DMAT617                | Kompakt Topolojik Uzaylar I  | 3+0+0 | Elective            | 7    |
| DMAT619                | Metrik Geometri I  | 3+0+0 | Elective            | 7    |
| DMAT621                | Toplanabilme Teorisi ve Uygulamaları I                                       | 3+0+0 | Elective            | 7    |
| DMAT623                | Lineer Pozitif Operatörler I   | 3+0+0 | Elective            | 7    |
| DMAT625                | Banach Uzaylarında Doğrusal Denklemler                                       | 3+0+0 | Elective            | 7    |
| DMAT627                | Lorentz Manifolddar I  | 3+0+0 | Elective            | 7    |
| DMAT629                | Qualitative Theory of Differential Equations                                 | 3+0+0 | Elective            | 7    |
| DMAT631                | Fuzzy Metrik Uzaylar   | 3+0+0 | Elective            | 7    |
| DMAT633                | Global Affine Differential Geometry I  | 3+0+0 | Elective            | 7    |
| DMAT635                | Invariant Theory I   | 3+0+0 | Elective            | 7    |
| DMAT639                | Sonsuz Diziler ve Seriler  | 3+0+0 | Elective            | 7    |
| DMAT641                | Topolojik Vektör Uzayları  | 3+0+0 | Elective            | 7    |
| DMAT643                | Structural Characterization of Functions at Continuum in the Complex Plane I | 3+0+0 | Elective            | 7    |
| Total ECTS             |  |       |                     | 152  |

| 2.Semester Course Plan |   |       |                     |      |
|------------------------|---|-------|---------------------|------|
| Course Code            | Course Name   | T+A+L | Compulsory/Elective | ECTS |
| DMAT602                | Uygulamalı Reel Analiz II   | 3+0+0 | Elective            | 7    |
| DMAT604                | Riesz Uzayları II   | 3+0+0 | Elective            | 7    |
| DMAT606                | Banach Lattices II  | 3+0+0 | Elective            | 7    |
| DMAT608                | Vektör Uzayları Üzerindeki Topolojik Yapılar ve Uygulamaları II               | 3+0+0 | Elective            | 7    |
| DMAT610                | Geometrik Nümerik Integrasyon   | 3+0+0 | Elective            | 7    |
| DMAT612                | Numeric Solutions of Partially Differential Equations and Boundary Value      | 3+0+0 | Elective            | 7    |
| DMAT614                | Spectral Models with Matlab   | 3+0+0 | Elective            | 7    |
| DMAT616                | Nümerik Lineer Cebir  | 3+0+0 | Elective            | 7    |
| DMAT618                | Kompakt Topolojik Uzaylar II  | 3+0+0 | Elective            | 7    |
| DMAT620                | Metrik Geometri II  | 3+0+0 | Elective            | 7    |
| DMAT622                | Summability Theory and Applications II  | 3+0+0 | Elective            | 7    |
| DMAT624                | Lineer Pozitif Operatör II  | 3+0+0 | Elective            | 7    |
| DMAT626                | Matris Dönüşümleri ve Dizi Uzayları II  | 3+0+0 | Elective            | 7    |
| DMAT628                | Lorentz Manifolddar II  | 3+0+0 | Elective            | 7    |
| DMAT630                | Fraksiyonel Diferansiyel Denklemler   | 3+0+0 | Elective            | 7    |
| DMAT632                | Global Affine Differential Geometry II  | 3+0+0 | Elective            | 7    |
| DMAT634                | Invariant Theory II   | 3+0+0 | Elective            | 7    |
| DMAT640                | Structural Characterization of Functions at Continuum in the Complex Plane II | 3+0+0 | Elective            | 7    |
| Total ECTS             |   |       |                     | 126  |

| 3.Semester Course Plan |                           |       |                     |      |
|------------------------|---------------------------|-------|---------------------|------|
| Course Code            | Course Name               | T+A+L | Compulsory/Elective | ECTS |
| FBE600                 | Graduate Seminar          | 1+1+0 | Compulsory          | 6    |
| FBE701                 | Doktora Tez Çalışması I   | 0+0+0 | Compulsory          | 30   |
| FBE703                 | Doktora Tez Çalışması III | 0+0+0 | Compulsory          | 30   |
| Total ECTS             |                           |       |                     | 66   |

| 4.Semester Course Plan |                          |       |                     |      |
|------------------------|--------------------------|-------|---------------------|------|
| Course Code            | Course Name              | T+A+L | Compulsory/Elective | ECTS |
| FBE699                 | Doktora Yeterlilik       | 0+0+0 | Compulsory          | 30   |
| FBE702                 | Doktora Tez Çalışması II | 0+0+0 | Compulsory          | 30   |
| FBE704                 | Doktora Tez Çalışması IV | 0+0+0 | Compulsory          | 30   |

Total ECTS 90

5.Semester Course Plan

| Course Code | Course Name         | T+A+L | Compulsory/Elective | ECTS |
|-------------|---------------------|-------|---------------------|------|
| FBE700      | Doktora Tez Önerisi | 0+0+0 | Compulsory          | 30   |
|             |                     |       | Total ECTS          | 30   |