Iğdır Üniversitesi

Fen Edebiyat Fakültesi

Matematik Bölümü

Matematik Bölümünde Yandal Yapacak, Anadalı Elektrik Elektronik Mühendisliği, İnşaat Mühendisliği, Makine Mühendisliği Olan Öğrencilerin Alması Gereken Dersler

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| I. Yarıyıl | | | | | | II. Yarıyıl | | | | | |
| Ders Kodu | Ders Adı | T | U | K | AKTS | Ders Kodu | Ders Adı | T | U | K | AKTS |
| MAT 103 | Analitik Geometri - I | 4 | 0 | 4 | 6 | MAT 104 | Analitik Geometri - II | 4 | 0 | 4 | 6 |
| MAT 105 | Soyut Matematik - I | 4 | 0 | 4 | 5 | MAT 106 | Soyut Matematik - II | 4 | 0 | 4 | 5 |
| MAT 201 | Analiz - III | 4 | 1 | 5 | 7 | MAT 202 | Analiz - IV | 4 | 1 | 5 | 7 |
| Toplam | | 12 | 1 | 13 | 18 | Toplam | | 12 | 1 | 13 | 18 |

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| III. Yarıyıl | | | | | | IV. Yarıyıl | | | | | |
| Ders Kodu | Ders Adı | T | U | K | AKTS | Ders Kodu | Ders Adı | T | U | K | AKTS |
| MAT 203 | Lineer Cebir - I | 4 | 0 | 4 | 5 | MAT 204 | Lineer Cebir - II | 4 | 0 | 4 | 5 |
| MAT 207 | Topoloji - I | 4 | 0 | 4 | 5 | MAT 206 | Diferansiyel Denklemler - II | 4 | 0 | 4 | 5 |
|  |  |  |  |  |  | MAT 208 | Topoloji - II | 4 | 0 | 4 | 5 |
|  |  |  |  |  |  | MAT 212 | Olasılık ve İstatistik - II | 4 | 0 | 4 | 5 |
| Toplam | | 8 | 0 | 8 | 10 | Toplam | | 16 | 0 | 16 | 20 |

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| V. Yarıyıl | | | | | | VI. Yarıyıl | | | | | |
| Ders Kodu | Ders Adı | T | U | K | AKTS | Ders Kodu | Ders Adı | T | U | K | AKTS |
| MAT 301 | Diferansiyel Geometri - I | 4 | 0 | 4 | 5 | MAT 302 | Diferansiyel Geometri - II | 4 | 0 | 4 | 5 |
| MAT 303 | Kısmi Diferansiyel Denklemler-I | 4 | 0 | 4 | 5 | MAT 304 | Nümerik Analize Giriş | 4 | 0 | 4 | 5 |
| Toplam | | 8 | 0 | 8 | 10 | Toplam | | 8 | 0 | 8 | 10 |

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| VII. Yarıyıl | | | | | | VIII. Yarıyıl | | | | | |
| Ders Kodu | Ders Adı | T | U | K | AKTS | Ders Kodu | Ders Adı | T | U | K | AKTS |
| MAT 305 | Kompleks Fonk. Teorisi - I | 4 | 0 | 4 | 5 | MAT 306 | Kompleks Fonk. Teorisi - II | 4 | 0 | 4 | 5 |
| MAT 307 | Soyut Cebir - I | 4 | 0 | 4 | 5 | MAT 308 | Soyut Cebir - II | 4 | 0 | 4 | 5 |
| Toplam | | 8 | 0 | 8 | 10 | Toplam | | 8 | 0 | 8 | 10 |

**TOPLAM:** 106 AKTS (Ortak derslerle beraber 130 AKTS)

**Elektrik Elektronik Mühendisliği, Makine Mühendisliği ve İnşaat Mühendisliği Bölümleriyle Ortak Olan Dersler**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Ders Kodu** | **Ders Adı** | **T** | **U** | **K** | **AKTS** | **Dönemi (Yandaldaki)** |
| MAT 101 | Analiz – I | 4 | 1 | 5 | 7 | I.Yarıyıl |
| MAT 102 | Analiz – II | 4 | 1 | 5 | 7 | II.Yarıyıl |
| MAT 205 | Diferansiyel Denklemler – I | 4 | 0 | 4 | 5 | III.Yarıyıl |
| MAT 211 | Olasılık ve İstatistik - I | 4 | 0 | 4 | 5 | IV.Yarıyıl |
| **Toplam** | | **16** | **2** | **18** | **24** |  |

Igdır University

Faculty of Science and Literature

Mathematics Department

Required Minor Mathematics Courses For Students With a Major in Electrical and Electronic Engineering, Civil Engineering and Mechanical Engineering

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| I. Semester | | | | | | II. Semester | | | | | |
| CourseCode | Course Name | T | P | C | ECTS | CourseCode | Course Name | T | P | C | ECTS |
| MAT 103 | Analytic Geometry - I | 4 | 0 | 4 | 6 | MAT 104 | Analytic Geometry - II | 4 | 0 | 4 | 6 |
| MAT 105 | Abstract Math. - I | 4 | 0 | 4 | 5 | MAT 106 | Abstract Math. - II | 4 | 0 | 4 | 5 |
| MAT 201 | Analysis - III | 4 | 1 | 5 | 7 | MAT 202 | Analysis - IV | 4 | 1 | 5 | 7 |
| Total | | 12 | 1 | 13 | 18 | Total | | 12 | 1 | 13 | 18 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| III. Semester | | | | | | IV. Semester | | | | | |
| CourseCode | Course Name | T | P | C | ECTS | CourseCode | Course Name | T | P | C | ECTS |
| MAT 203 | Linear Algebra - I | 4 | 0 | 4 | 5 | MAT 204 | Linear Algebra - II | 4 | 0 | 4 | 5 |
| MAT 207 | Topology - I | 4 | 0 | 4 | 5 | MAT 206 | Diferansiyel Denklemler - II | 4 | 0 | 4 | 5 |
|  |  |  |  |  |  | MAT 208 | Topology - II | 4 | 0 | 4 | 5 |
|  |  |  |  |  |  | MAT 212 | Probability and Statistics - II | 4 | 0 | 4 | 5 |
| Total | | 8 | 0 | 8 | 10 | Total | | 16 | 0 | 16 | 20 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| V. Semester | | | | | | VI. Semester | | | | | |
| Course Code | Course Name | T | P | C | ECTS | Course Code | Course Name | T | P | C | ECTS |
| MAT 301 | Differential Geometry - I | 4 | 0 | 4 | 5 | MAT 302 | Differential Geometry - II | 4 | 0 | 4 | 5 |
| MAT 303 | Partial Differential Equations - I | 4 | 0 | 4 | 5 | MAT 304 | Introduciton to Numerical Analysis | 4 | 0 | 4 | 5 |
| Total | | 8 | 0 | 8 | 10 | Total | | 8 | 0 | 8 | 10 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| VII. Semester | | | | | | VIII. Semester | | | | | |
| Course Code | Course Name | T | P | C | ECTS | Course Code | Course Name | T | P | C | ECTS |
| MAT 305 | Complex Funtions Theory - I | 4 | 0 | 4 | 5 | MAT 306 | Complex Funtions Theory - II | 4 | 0 | 4 | 5 |
| MAT 307 | Abstract Algebra - I | 4 | 0 | 4 | 5 | MAT 308 | Abstract Algebra - II | 4 | 0 | 4 | 5 |
| Total | | 8 | 0 | 8 | 10 | Total | | 8 | 0 | 8 | 10 |

**TOTAL:** 198 ECTS (240 ECTS with common courses)

**Common Courses** **With Departments of Electrical and Electronic Engineering, Civil Engineering and Mechanical Engineering**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Course Code** | **Course Name** | **T** | **P** | **C** | **ECTS** | **Semester (in Minor)** |
| MAT 101 | Analysis – I | 4 | 1 | 5 | 7 | I.Semester |
| MAT 102 | Analysis – II | 4 | 1 | 5 | 7 | II.Semester |
| MAT 205 | Ordinary Differential Equations – I | 4 | 0 | 4 | 5 | III.Semester |
| MAT 211 | Probability and Statistics - I | 4 | 0 | 4 | 5 | IV.Semester |
| **Total** | | **16** | **2** | **18** | **24** |  |