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| <br><b>OSTİM TEKNİK<br/>ÜNİVERSİTESİ</b><br><small>A N K A R A</small> | <b>FEN BİLİMLERİ ENSTİTÜSÜ</b><br><b>BİLGİSAYAR MÜHENDİSLİĞİ</b><br><b>İNGİLİZCE (TEZLİ) YÜKSEK LİSANS MÜFREDATI</b> | Doküman No      | FBE.LS.010 |
|                                                                                                                                                         |                                                                                                                      | Revizyon Tarihi | 15.11.2024 |
|                                                                                                                                                         |                                                                                                                      | Revizyon No     | 00         |
|                                                                                                                                                         |                                                                                                                      | Sayfa No        | 1 / 1      |

| 1. Semester Course Plan |                                                                      |       |                         |      |
|-------------------------|----------------------------------------------------------------------|-------|-------------------------|------|
| Course Code             | Course Name                                                          | T+A+L | Compulsory/<br>Elective | ECTS |
| SEC 1                   | Elective Course                                                      | -     | Elective                | 7,5  |
| SEC 2                   | Elective Course                                                      | -     | Elective                | 7,5  |
| SEC 3                   | Elective Course                                                      | -     | Elective                | 7,5  |
| MATH 501                | Analytical Methods in Engineering                                    | 3+0+0 | Compulsory              | 7,5  |
| 2. Semester Course Plan |                                                                      |       |                         |      |
| Course Code             | Course Name                                                          | T+A+L | Compulsory/<br>Elective | ECTS |
| CENG 580                | Seminar                                                              | 0+0+0 | Compulsory              | 3,0  |
| NAS 522                 | Scientific Research Methods and Ethics                               | 3+0+0 | Compulsory              | 4,5  |
| SEC 4                   | Elective Course                                                      | -     | Elective                | 7,5  |
| SEC 5                   | Elective Course                                                      | -     | Elective                | 7,5  |
| SEC 6                   | Elective Course                                                      | -     | Elective                | 7,5  |
| 3. Semester Course Plan |                                                                      |       |                         |      |
| Course Code             | Course Name                                                          | T+A+L | Compulsory/<br>Elective | ECTS |
| CENG 590                | Thesis Study                                                         | 0+0+0 | Compulsory              | 30,0 |
| 4. Semester Course Plan |                                                                      |       |                         |      |
| Course Code             | Course Name                                                          | T+A+L | Compulsory/<br>Elective | ECTS |
| CENG 590                | Thesis Study                                                         | 0+0+0 | Compulsory              | 30,0 |
| ELECTIVE COURSES        |                                                                      |       |                         |      |
| Course Code             | Course Name                                                          | T+A+L | Compulsory/<br>Elective | ECTS |
| CENG 501                | Advanced Computer Networks                                           | 3+0+0 | Elective                | 7,5  |
| CENG 502                | Advanced Java Programming                                            | 3+0+0 | Elective                | 7,5  |
| CENG 503                | Advanced Databases                                                   | 3+0+0 | Elective                | 7,5  |
| CENG 505                | Advanced Algorithm Analysis                                          | 3+0+0 | Elective                | 7,5  |
| CENG 521                | Object Oriented Design and Programming                               | 3+0+0 | Elective                | 7,5  |
| CENG 522                | Cyber security                                                       | 3+0+0 | Elective                | 7,5  |
| CENG 523                | Advanced Operating Systems                                           | 3+0+0 | Elective                | 7,5  |
| CENG 525                | Introduction to Emerging Technologies                                | 3+0+0 | Elective                | 7,5  |
| CENG 527                | Deep Learning                                                        | 3+0+0 | Elective                | 7,5  |
| CENG 536                | Advanced Network Based Programming                                   | 3+0+0 | Elective                | 7,5  |
| CENG 537                | Secure Programing                                                    | 3+0+0 | Elective                | 7,5  |
| CENG 538                | Information Security                                                 | 3+0+0 | Elective                | 7,5  |
| CENG 541                | Machine Learning                                                     | 3+0+0 | Elective                | 7,5  |
| CENG 542                | Advanced Artificial Intelligence                                     | 3+0+0 | Elective                | 7,5  |
| CENG 543                | Current Trends in Internetwork Technologies                          | 3+0+0 | Elective                | 7,5  |
| CENG 544                | Big Data Analysis                                                    | 3+0+0 | Elective                | 7,5  |
| CENG 545                | Penetration Testing                                                  | 3+0+0 | Elective                | 7,5  |
| CENG 546                | Advanced Computer Architectures                                      | 3+0+0 | Elective                | 7,5  |
| CENG 551                | Optimization                                                         | 3+0+0 | Elective                | 7,5  |
| CENG 553                | Parallel and Cluster Computing                                       | 3+0+0 | Elective                | 7,5  |
| CENG 554                | Introduction to Broad Band Cellular Communication Systems (4G/5G/6G) | 3+0+0 | Elective                | 7,5  |
| CENG 555                | Cloud Computing                                                      | 3+0+0 | Elective                | 7,5  |

| Hazırlayan                          | Kontrol Eden                      | Onaylayan          |
|-------------------------------------|-----------------------------------|--------------------|
| Ayşegül Bal<br>FBE Kalite Sorumlusu | Kenan IŞIK<br>Kalite Koordinatörü | FBE Yönetim Kurulu |
| E-imzalıdır/parafıdır               | E-imzalıdır                       | E-imzalıdır        |