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|  | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI DERS PLANLARI** | | | | | | | | | | | | **FR 1.1.1\_02** | | | |
| **ANABİLİM/ ANASANAT DALI** | | | Çevre Mühendisliği | | | | | | | | | | | | | | |
| **BİLİM/ SANAT DALI / PROGRAMI** | | | Yüksek Lisans Programı | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | **I. YARIYIL / GÜZ** | | | | | | | | | **II. YARIYIL / BAHAR** | | | | | | | |
| **Kodu** | **Dersin Adı** | | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Kodu** | **Dersin Adı** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** |
| CEV5191 | TEZ DANIŞMANLIĞI I | | Z | 0 | 1 | 0 | 0 | 1 | CEV5192 | TEZ DANIŞMANLIĞI II | Z | 0 | 1 | 0 | 0 | 1 |
| CEV5181 | YÜKSEK LİSANS UZMANLIK ALAN DERSİ I | | Z | 4 | 0 | 0 | 0 | 5 | CEV5182 | YÜKSEK LİSANS UZMANLIK ALAN DERSİ II | Z | 4 | 0 | 0 | 0 | 5 |
|  |  | |  |  |  |  |  |  | CEV5172 | SEMİNER | Z | 0 | 2 | 0 | 0 | 4 |
|  |  | |  |  |  |  |  |  | FEN5000 | ARAŞTIRMA TEKNİKLERİ VE YAYIN ETİĞİ | Z | 2 | 0 | 0 | 2 | 2 |
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|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CEV | SEÇMELİ DERS | | S |  |  |  | 3 | 6 |  | SEÇMELİ DERS \* | S |  |  |  | 3 | 6 |
| CEV | SEÇMELİ DERS | | S |  |  |  | 3 | 6 |  |  |  |  |  |  |  |  |
|  | SEÇMELİ DERS \* | | S |  |  |  | 3 | 6 |  |  |  |  |  |  |  |  |
| **Toplam Kredi/AKTS** | | | | | | | **12** | **30** | **Toplam Kredi/AKTS** | | | | | | **11** | **30** |
| **TEZ AŞAMASI** | **III. YARIYIL / GÜZ** | | | | | | | | | **IV. YARIYIL / BAHAR** | | | | | | | |
| CEV5183 | YÜKSEK LİSANS UZMANLIK ALAN DERSİ III | | Z | 4 | 0 | 0 | 0 | 5 | CEV5184 | YÜKSEK LİSANS UZMANLIK ALAN DERSİ IV | Z | 4 | 0 | 0 | 0 | 5 |
| CEV5193 | TEZ DANIŞMANLIĞI III | | Z | 0 | 1 | 0 | 0 | 25 | CEV5194 | TEZ DANIŞMANLIĞI IV | Z | 0 | 1 | 0 | 0 | 25 |
| **Toplam Kredi/AKTS** | | | | | | | **0** | **30** | **Toplam Kredi/AKTS** | | | | | | **0** | **30** |
| **TOPLAM KREDİ: 23 - TOPLAM AKTS: 120** | | | | | | | | | | | | | | | | | |

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|  | | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI DERS PLANLARI (SEÇMELİ DERSLER)** | | | | | | | | | | | | **FR 1.1.1\_02** | | | | |
| **ANABİLİM/ ANASANAT DALI** | | | | Çevre Mühendisliği | | | | | | | | | | | | | | | |
| **BİLİM/ SANAT DALI / PROGRAMI** | | | | Yüksek Lisans Programı | | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | **I. YARIYIL / GÜZ** | | | | | | | | | | **II. YARIYIL / BAHAR** | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Kodu** | **Dersin Adı** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** |
| CEV5121 | ÇEVRE YÖNETİMİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5102 | ÇEVRESEL ENSTRÜMENTAL ANALİZ TEKNİĞİ | S | 2 | 0 | 2 | 3 | 6 |
| CEV5243 | ENDÜSTRİYEL HAVA KİRLİLİĞİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5122 | SU KALİTESİ YÖNETİMİ | S | 2 | 2 | 0 | 3 | 6 |
| CEV5247 | ÇEVRE TEKNOLOJİSİNİN TEMELLERİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5148 | ENDÜSTRİYEL ATIKSULARDA GERİ KAZANIM ve TEKRAR KULLANIM TEKNİKLERİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5249 | ATIKSU ARITMA TESİSİ BOYUTLANDIRMA KRİTERLERİ | | | S | 2 | 2 | 0 | 3 | 6 | CEV5222 | ENDÜSTRİYEL ATIK YÖNETİMİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5251 | BACAGAZI ÖLÇÜM ve ANALİZİ | | | S | 2 | 0 | 2 | 3 | 6 | CEV5224 | BİYOLOJİK ARITMANIN PRENSİPLERİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5253 | DIŞ HAVA KALİTESİ ÖLÇÜM ve İZLENMESİ | | | S | 2 | 0 | 2 | 3 | 6 | CEV5226 | ATIKSU MÜHENDİSLİĞİ | S | 2 | 2 | 0 | 3 | 6 |
| CEV5255 | ATIKSU ARITIMINDA SULAK ALAN SİSTEMLERİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5228 | ATIKSU ARITIMINDA İYON DEĞİŞİMİ ve ADSORPSİYON TEKNOLOJİSİ | S | 2 | 2 | 0 | 3 | 6 |
| CEV5265 | TEMİZ ÜRETİM TEKNİKLERİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5230 | DÜZENLİ KATI ATIK DEPONİ ALANLARININ OLUŞTURULMASI | S | 2 | 2 | 0 | 3 | 6 |
| CEV5267 | SU ve ATIKSU MİKROBİYOLOJİSİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5232 | HAVA KİRLİLİĞİ MÜHENDİSLİĞİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5269 | ATIKLARIN ANAEROBİK ARITIMI | | | S | 3 | 0 | 0 | 3 | 6 | CEV5234 | ATMOSFERİK TAŞINIM ve ÇÖKELME | S | 2 | 0 | 2 | 3 | 6 |
| CEV5271 | SERA GAZI HESAPLAMA YÖNTEMLERİ ve İKLİM DEĞİŞİKLİĞİ | | | S | 2 | 2 | 0 | 3 | 6 | CEV5236 | SU ve ATIKSU ARITMA TESİSLERİNİN ENSTRÜMENTASYONU ve KONTROLÜ | S | 2 | 2 | 0 | 3 | 6 |
| CEV5273 | ÇEVRE MÜHENDİSLİĞİNDE NANOTEKNOLOJİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5238 | SU KALİTESİNİN BELİRLENMESİNDE BİYOİNDİKATÖR CANLILAR | S | 3 | 0 | 0 | 3 | 6 |
| CEV5275 | ENTEGRE ATIK YÖNETİMİ TEKNOLOJİLERİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5242 | SU ve ATIKSULARIN DEZENFEKSİYONU | S | 3 | 0 | 0 | 3 | 6 |
| CEV5279 | SIZINTI SULARININ OLUŞUMU ve ARITIMI | | | S | 3 | 0 | 0 | 3 | 6 | CEV5244 | ÇEVRE MÜHENDİSLİĞİ İÇİN BİYOMOLEKÜLER TEKNİKLER | S | 3 | 0 | 0 | 3 | 6 |
| CEV5281 | ENDÜSTRİYEL ATIKSULARIN BİYOLOJİK ARITIMI | | | S | 3 | 0 | 0 | 3 | 6 | CEV5246 | İLERİ ATMOSFER KİMYASI | S | 3 | 0 | 0 | 3 | 6 |
| CEV5301 | KİMYASALLARIN ÇEVRESEL HAREKETİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5250 | ARAZİDE ARITMA | S | 3 | 0 | 0 | 3 | 6 |
| CEV5303 | KOMPOST TEKNOLOJİSİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5302 | ÇEVRE MÜHENDİSLERİ İÇİN İSTATİSTİK | S | 3 | 0 | 0 | 3 | 6 |
| CEV5305 | BİYOYAKIT ÜRETİMİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5304 | İLERİ ÇEVRE MÜHENDİSLİĞİ KİMYASI I | S | 3 | 0 | 0 | 3 | 6 |
| CEV5307 | SEDİMAN KİRLİLİĞİ VE TAŞINIMI | | | S | 3 | 0 | 0 | 3 | 6 | CEV5306 | ÇEVRE KİRLİLİĞİ VE KONTROLÜNDE ENERJİ VERİMLİLİĞİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5311 | TOPRAK KİRLİLİĞİ VE KONTROLÜ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5308 | ÇEVRE TOKSİKOLOJİSİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5313 | KOKU EMİSYONU VE KONTROL YÖNTEMLERİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV5310 | NEHİR HAVZALARI HİDROLOJİSİ VE TAŞKIN – KURAKLIK MODELLEMESİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5315 | ENDÜSTRİYEL EKOLOJİ VE SÜRDÜRÜLEBİLİRLİK | | | S | 3 | 0 | 0 | 3 | 6 | CEV5312 | İLERİ FİZİKO – KİMYASAL ARITMA PROSESLERİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5317 | MESLEKİ YABANCI DİL | | | S | 3 | 0 | 0 | 3 | 6 | CEV5314 | ARITMA ÇAMURU VE TOPRAK ANALİZLERİ | S | 2 | 0 | 2 | 3 | 6 |
|  |  | | |  |  |  |  |  |  | CEV5316 | ARITMA ÇAMURLARININ SUSUZLAŞTIRILMASI | S | 3 | 0 | 0 | 3 | 6 |
|  |  | | |  |  |  |  |  |  | CEV5318 | ORGANİK MİKROKİRLETİCİLER VE KONTROLÜ | S | 3 | 0 | 0 | 3 | 6 |
|  |  |  | | |  |  |  |  |  |  | CEV5324 | SUCUL EKOSİSTEMLERİN YÖNETİMİ | S | 3 | 0 | 0 | 3 | 6 |
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|  | | | | | | **BURSA ULUDAĞ UNIVERSITY**  **INSTITUTE OF NATURAL AND APPLIED SCIENCES**  **2025-2026 ACADEMIC YEAR COURSE PLAN** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **FR 1.1.1\_02** | | | | | | | | | |
| **DEPARTMENT OF** | | | | | | | **ENVIRONMENTAL ENGINEERING** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **DEPARTMENT / PROGRAM** | | | | | | | Master's Degree Program | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COURSE STAGE** | | **I. TERM / FALL** | | | | | | | | | | | | | | | | | | | | | | | **II. TERM / SPRING** | | | | | | | | | | | | | | | | | | | |
| **Code** | | **Course Title** | | | | | | | **Type** | | | | **T** | | **U** | | **L** | **Credit** | | **ECTS** | | | **Code** | | **Course Title** | | **Type** | | **T** | | | **U** | | | **L** | | | **Credit** | | | **ECTS** | |
| CEV5191 | | MA THESIS CONSULTING I | | | | | | | C | | | | 0 | | 1 | | 0 | 0 | | 1 | | | CEV5192 | | MA THESIS CONSULTING II | | C | | 0 | | | 1 | | | 0 | | | 0 | | | 1 | |
| CEV5181 | | ADVANCED TOPICS IN MA THESIS I | | | | | | | C | | | | 4 | | 0 | | 0 | 0 | | 5 | | | CEV5182 | | ADVANCED TOPICS IN MA THESIS II | | C | | 4 | | | 0 | | | 0 | | | 0 | | | 5 | |
|  | |  | | | | | | |  | | | |  | |  | |  |  | |  | | | CEV5172 | | SEMINAR | | C | | 0 | | | 2 | | | 0 | | | 0 | | | 4 | |
|  | |  | | | | | | |  | | | |  | |  | |  |  | |  | | | FEN5000 | | RESEARCH TECHNIQUES and PUBLICATION ETHICS in ENVIRONMENTAL ENGINEERING | | C | | 2 | | | 0 | | | 0 | | | 2 | | | 2 | |
|  | |  | | | | | | |  | | | |  | |  | |  |  | |  | | |  | |  | |  | |  | | |  | | |  | | |  | | |  | |
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| CEV | | ELECTIVE COURSE | | | | | | | E | | | |  | |  | |  | 3 | | 6 | | |  | | ELECTIVE COURSE \* | | E | |  | | |  | | |  | | | 3 | | | 6 | |
| CEV | | ELECTIVE COURSE | | | | | | | E | | | |  | |  | |  | 3 | | 6 | | |  | |  | |  | |  | | |  | | |  | | |  | | |  | |
|  | | ELECTIVE COURSE \* | | | | | | | E | | | |  | |  | |  | 3 | | 6 | | |  | |  | |  | |  | | |  | | |  | | |  | | |  | |
| **Total Credits/ECTS** | | | | | | | | | | | | | | | | | | **12** | | **30** | | | **Total Credits/ECTS** | | | | | | | | | | | | | | | **11** | | | **30** | |
| **STAGE THESIS** | | **III. TERM / FALL** | | | | | | | | | | | | | | | | | | | | | | | **IV. TERM / SPRING** | | | | | | | | | | | | | | | | | | | |
| CEV5183 | | ADVANCED TOPICS IN MA THESIS III | | | | | | | C | | | | 4 | | 0 | | 0 | 0 | | 5 | | | CEV5184 | | ADVANCED TOPICS IN MA THESIS IV | | C | | 4 | | | 0 | | | 0 | | | 0 | | | 5 | |
| CEV5193 | | MA THESIS CONSULTING III | | | | | | | C | | | | 0 | | 1 | | 0 | 0 | | 25 | | | CEV5194 | | MA THESIS CONSULTING IV | | C | | 0 | | | 1 | | | 0 | | | 0 | | | 25 | |
| **Total Credits/ECTS** | | | | | | | | | | | | | | | | | | **0** | | **30** | | | **Total Credits/ECTS** | | | | | | | | | | | | | | | **0** | | | **30** | |
| **TOTAL CREDITS: 23 - TOTAL ECTS: 120** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | **BURSA ULUDAĞ UNIVERSITY**  **INSTITUTE OF NATURAL AND APPLIED SCIENCES**  **2025-2026 ACADEMIC YEAR COURSE PLAN (ELECTIVE COURSES)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **FR 1.1.1\_02** | | | | | | | | | |
| **ANABİLİM/ ANASANAT DALI** | | | | | | | | **ENVIRONMENTAL ENGINEERING** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **BİLİM/ SANAT DALI / PROGRAMI** | | | | | | | | Master's Degree Program | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | | **I. TERM / FALL** | | | | | | | | | | | | | | | | | | | | | | | **II. TERM / SPRING II. TERM / SPRING** | | | | | | | | | | | | | | | | | | |
| **Code** | | **Course Title** | | | | | | | **Type** | | | | **T** | | **U** | | **L** | **Credit** | | **ECTS** | | | **Code** | | **Course Title** | | **Type** | | **T** | | | **U** | | | **L** | | | **Credit** | | | **ECTS** |
| CEV5121 | | ENVIRONMENTAL MANAGEMENT | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5102 | | ENVIRONMENTAL INSTRUMENTAL ANALYSIS | | E | | 2 | | | 0 | | | 2 | | | 3 | | | 6 |
| CEV5243 | | INDUSTRIAL AIR POLLUTION | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5122 | | WATER QUALITY MANAGEMENT | | E | | 2 | | | 2 | | | 0 | | | 3 | | | 6 |
| CEV5247 | | BASICS OF ENVIRONMENTAL TECHNOLOGY | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5148 | | RECYCLE AND REUSE TECHNIQUES ON INDUSTRIAL WASTEWATERS | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5249 | | DESIGN CRITERIA FOR WASTEWATER TREATMENT PLANTS | | | | | | | E | | | | 2 | | 2 | | 0 | 3 | | 6 | | | CEV5222 | | INDUSTRIAL WASTE MANAGEMENT | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5251 | | STACK GAS MEASUREMENT AND ANALYSIS | | | | | | | E | | | | 2 | | 0 | | 2 | 3 | | 6 | | | CEV5224 | | PRINCIPLES OF BIOLOGICAL TREATMENT | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5253 | | MEASUREMENT AND MONITORING OF AMBIENT AIR | | | | | | | E | | | | 2 | | 0 | | 2 | 3 | | 6 | | | CEV5226 | | WASTEWATER ENGINEERING | | E | | 2 | | | 2 | | | 0 | | | 3 | | | 6 |
| CEV5255 | | WETLAND SYSTEMS IN WASTEWATER TREATMENT | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5228 | | ION EXCHANGE AND ADSORPTION TECHNOLOGY IN WASTEWATER TREATMENT | | E | | 2 | | | 2 | | | 0 | | | 3 | | | 6 |
| CEV5265 | | CLEANER PRODUCTION PRINCIPLES | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5230 | | THE DESIGN OF LANDFILL AREAS | | E | | 2 | | | 2 | | | 0 | | | 3 | | | 6 |
| CEV5267 | | WATER AND WASTEWATER MICROBIOLOGY | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5232 | | AIR POLLUTION ENGINEERING | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5269 | | ANAEROBIC TREATMENT OF WASTES | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5234 | | ATMOSPHERIC TRANSPORT AND DEPOSITION | | E | | 2 | | | 0 | | | 2 | | | 3 | | | 6 |
| CEV5271 | | GREENHOUSE GASES CALCULATION METHODS AND CLIMATE CHANGE | | | | | | | E | | | | 2 | | 2 | | 0 | 3 | | 6 | | | CEV5236 | | INSTRUMENTATION AND AUTOMATION OF WATER AND WASTEWATER TREATMENT PLANTS | | E | | 2 | | | 2 | | | 0 | | | 3 | | | 6 |
| CEV5273 | | NANOTECHNOLOGY IN ENVIRONMENTAL ENGINEERING | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5238 | | BIOINDICATOR ORGANISMS IN DETERMINATION OF WATER QUALITY | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5275 | | INTEGRATED WASTE MANAGEMENT TECHNOLOGIES | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5242 | | DISINFECTION OF WATER AND WASTEWATER | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5279 | | FORMATION AND TREATMENT OF LANDFILL LEACHATE | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5244 | | MICROBIAL TECHNIQUES IN ENVIRONMENTAL ENGINEERING | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5281 | | BIOLOGICAL TREATMENT OF INDUSTRIAL WASTEWATERS | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5246 | | ADVANCED ATMOSPHERIC CHEMISTRY | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5301 | | ENVIRONMENTAL MOVEMENT OF CHEMICALS | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5250 | | ON-SITE WASTEWATER TREATMENT | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5303 | | COMPOSTING TECHNOLOGY | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5302 | | STATISTICS FOR ENVIRONMENTAL ENGINEERS | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5305 | | PRODUCTION OF BIOFUELS | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5304 | | ADVANCED ENVIRONMENTAL ENGINEERING CHEMISTRY I | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5307 | | SEDIMENT POLLUTION AND TRANSPORT | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5306 | | ENERGY EFFICIENCY IN ENVIRONMENTAL POLLUTION AND CONTROL | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5311 | | SOIL POLLUTION AND CONTROL | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5308 | | ENVIRONMENTAL TOXICOLOGY | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5313 | | ODOUR EMISSION AND CONTROL METHODS | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5310 | | HYDROLOGY OF RIVER CATCHMENTS AND FLOOD-DROUGHT MODELLING | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5315 | | INDUSTRIAL ECOLOGY AND SUSTAINABILITY | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5312 | | ADVANCED PHYSICO-CHEMİCAL TREATMENT PROCESSES | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
| CEV5317 | | PROFESSIONAL FOREIGN LANGUAGE | | | | | | | E | | | | 3 | | 0 | | 0 | 3 | | 6 | | | CEV5314 | | WASTEWATER SLUDGE AND SOIL ANALYSIS | | E | | 2 | | | 0 | | | 2 | | | 3 | | | 6 |
|  | |  | | | | | | |  | | | |  | |  | |  |  | |  | | | CEV5316 | | DEWATERING OF TREATMENT SLUDGES | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
|  | |  | | | | | | |  | | | |  | |  | |  |  | |  | | | CEV5318 | | ORGANIC MICROPOLLUTANTS AND CONTROL | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
|  | |  | |  | | | | | | |  | | | |  | |  | |  |  | |  | | | CEV5324 | | MANAGEMENT OF AQUATIC ECOSYSTEMS | | E | | 3 | | | 0 | | | 0 | | | 3 | | | 6 |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI DERS PLANLARI** | | | | | | | | | | | | | | | | | | | | | | | | | | | **FR 1.1.1\_02** | | | | | | | | | | | | | |
| **ANABİLİM/ ANASANAT DALI** | | | | | | | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **BİLİM/ SANAT DALI / PROGRAMI** | | | | | | | | | / Doktora | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | | **I. YARIYIL / GÜZ** | | | | | | | | | | | | | | | | | | | | | **II. YARIYIL / BAHAR** | | | | | | | | | | | | | | | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | | | | | **Türü** | | | **T** | **U** | | **L** | | **Kredi** | | | **AKTS** | | **Kodu** | | | **Dersin Adı** | | **Türü** | | **T** | | | **U** | | | **L** | | | **Kredi** | | | **AKTS** | | | |
| CEV6191 | TEZ DANIŞMANLIĞI I | | | | | | | Z | | | 0 | 1 | | 0 | | 0 | | | 1 | | CEV6192 | | | TEZ DANIŞMANLIĞI II | | Z | | 0 | | | 1 | | | 0 | | | 0 | | | 1 | | | |
| CEV6181 | DOKTORA UZMANLIK ALAN DERSİ I | | | | | | | Z | | | 4 | 0 | | 0 | | 0 | | | 5 | | CEV6182 | | | DOKTORA UZMANLIK ALAN DERSİ II | | Z | | 4 | | | 0 | | | 0 | | | 0 | | | 5 | | | |
|  |  | | | | | | |  | | |  |  | |  | |  | | |  | | CEV6172 | | | SEMİNER | | Z | | 0 | | | 2 | | | 0 | | | 0 | | | 4 | | | |
|  |  | | | | | | |  | | |  |  | |  | |  | | |  | | FEN6002 | | | TEKNOLOJİ TRANSFERİ, AR-GE VE İNOVASYON | | Z | | 2 | | | 0 | | | 0 | | | 2 | | | 2 | | | |
| CEV | SEÇMELİ DERS | | | | | | | S | | |  |  | |  | | 3 | | | 6 | | CEV | | | SEÇMELİ DERS | | S | |  | | |  | | |  | | | 3 | | | 6 | | | |
| CEV | SEÇMELİ DERS | | | | | | | S | | |  |  | |  | | 3 | | | 6 | | CEV | | | SEÇMELİ DERS | | S | |  | | |  | | |  | | | 3 | | | 6 | | | |
| CEV | SEÇMELİ DERS | | | | | | | S | | |  |  | |  | | 3 | | | 6 | |  | | | SEÇMELİ DERS \* | | S | |  | | |  | | |  | | | 3 | | | 6 | | | |
|  | SEÇMELİ DERS \* | | | | | | | S | | |  |  | |  | | 3 | | | 6 | |  | | |  | |  | |  | | |  | | |  | | |  | | |  | | | |
| **Toplam Kredi/AKTS** | | | | | | | | | | | | | | | | **12** | | | **30** | | **Toplam Kredi/AKTS** | | | | | | | | | | | | | | | | **11** | | | **30** | | | |
| **TEZ AŞAMASI** | | **III. YARIYIL / GÜZ** | | | | | | | | | | | | | | | | | | | | | **IV. YARIYIL / BAHAR** | | | | | | | | | | | | | | | | | | | | | | |
| YET6177 | DOKTORA YETERLİLİK SINAVI | | | | | | | Z | | | 0 | 0 | | 0 | | 0 | | | 10 | | CEV6184 | | | DOKTORA UZMANLIK ALAN DERSİ IV | | Z | | 4 | | | 0 | | | 0 | | | 0 | | | 5 | | | |
| CEV6183 | DOKTORA UZMANLIK ALAN DERSİ III | | | | | | | Z | | | 4 | 0 | | 0 | | 0 | | | 5 | | CEV6194 | | | TEZ DANIŞMANLIĞI IV | | Z | | 0 | | | 1 | | | 0 | | | 0 | | | 25 | | | |
| CEV6193 | TEZ DANIŞMANLIĞI III | | | | | | | Z | | | 0 | 1 | | 0 | | 0 | | | 15 | |  | | |  | |  | |  | | |  | | |  | | |  | | |  | | | |
| **Toplam Kredi/AKTS** | | | | | | | | | | | | | | | | **0** | | | **30** | | **Toplam Kredi/AKTS** | | | | | | | | | | | | | | | | **0** | | | **30** | | | |
| **V. YARIYIL / GÜZ** | | | | | | | | | | | | | | | | | | | | | **VI. YARIYIL / BAHAR** | | | | | | | | | | | | | | | | | | | | | | |
| CEV6185 | DOKTORA UZMANLIK ALAN DERSİ V | | | | | | | Z | | | 4 | 0 | | 0 | | 0 | | | 5 | | CEV6186 | | | DOKTORA UZMANLIK ALAN DERSİ VI | | Z | | 4 | | | 0 | | | 0 | | | 0 | | | 5 | | | |
| CEV6195 | TEZ DANIŞMANLIĞI V | | | | | | | Z | | | 0 | 1 | | 0 | | 0 | | | 25 | | CEV6196 | | | TEZ DANIŞMANLIĞI VI | | Z | | 0 | | | 1 | | | 0 | | | 0 | | | 25 | | | |
| **Toplam Kredi/AKTS** | | | | | | | | | | | | | | | | **0** | | | **30** | | **Toplam Kredi/AKTS** | | | | | | | | | | | | | | | | **0** | | | **30** | | | |
| **VII. YARIYIL / GÜZ** | | | | | | | | | | | | | | | | | | | | | **VIII. YARIYIL / BAHAR** | | | | | | | | | | | | | | | | | | | | | | |
| CEV6187 | DOKTORA UZMANLIK ALAN DERSİ VII | | | | | | | Z | | 4 | | 0 | | 0 | | 0 | | | 5 | | CEV6188 | | | DOKTORA UZMANLIK ALAN DERSİ VIII | | Z | | 4 | | | 0 | | | 0 | | 0 | | | 5 | | | | |
| CEV6197 | TEZ DANIŞMANLIĞI VII | | | | | | | Z | | 0 | | 1 | | 0 | | 0 | | | 25 | | CEV6198 | | | TEZ DANIŞMANLIĞI VIII | | Z | | 0 | | | 1 | | | 0 | | 0 | | | 25 | | | | |
| **Toplam Kredi/AKTS** | | | | | | | | | | | | | | | | **0** | | | **30** | | **Toplam Kredi/AKTS** | | | | | | | | | | | | | | | **0** | | | **30** | | | | |
| **TOPLAM KREDİ: 23 - TOPLAM AKTS: 240** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI DERS PLANLARI (SEÇMELİ DERSLER)** | | | | | | | | | | | | | **FR 1.1.1\_02** | | | | | |
| **ANABİLİM/ ANASANAT DALI** | | | | | Çevre Mühendisliği | | | | | | | | | | | | | | | | | |
| **BİLİM/ SANAT DALI / PROGRAMI** | | | | | Doktora | | | | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | | **I. YARIYIL / GÜZ** | | | | | | | | | | | **II. YARIYIL / BAHAR** | | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | | **Kodu** | **Dersin Adı** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | |
| CEV6123 | GÖL SU KALİTESİ MODELLEMESİ | | | S | 2 | 2 | 0 | 3 | 6 | | CEV6124 | YÜZEYSEL SU KALİTESİ MODELLEMESİ | S | 2 | 2 | 0 | 3 | 6 | |
| CEV6221 | TEHLİKELİ ve ZARARLI ATIKLAR | | | S | 2 | 2 | 0 | 3 | 6 | | CEV6208 | EVSEL ve ENDÜSTRİYEL AKTİF ÇAMUR BERTARAF TEKNİKLERİ | S | 2 | 2 | 0 | 3 | 6 | |
| CEV6225 | TEHLİKELİ ATIKLARIN STABİLİZASYONU ve SOLİDİFİKASYONU | | | S | 3 | 0 | 0 | 3 | 6 | | CEV6224 | ENDÜSTRİYEL ATIK ARITIMI ve BERTARAFI | S | 2 | 2 | 0 | 3 | 6 | |
| CEV6227 | AKTİF ÇAMUR SİSTEMLERİNDE BİLGİSAYAR DESTEKLİ MODEL YAKLAŞIMLARI | | | S | 2 | 2 | 0 | 3 | 6 | | CEV6242 | HAVA KİRLİLİĞİ METEOROLOJİSİ | S | 3 | 0 | 0 | 3 | 6 | |
| CEV6229 | TOKSİK ORGANİK BİLEŞİKLERİN BİYOLOJİK ARITIMI | | | S | 3 | 0 | 0 | 3 | 6 | | CEV6244 | AKTİF ÇAMUR PROSESİNİN DİZAYNI ve İŞLETİMİNDE RESPİROMETRİK METODUN KULLANILMASI | S | 2 | 0 | 2 | 3 | 6 | |
| CEV6231 | İLERİ ARITMA TEKNİKLERİ | | | S | 2 | 2 | 0 | 3 | 6 | | CEV6246 | ARITMA TESİSLERİ İŞLETİLMESİ | S | 2 | 0 | 2 | 3 | 6 | |
| CEV6233 | ARITMA ÇAMURLARININ ARAZİYE UYGULANMASI | | | S | 3 | 0 | 0 | 3 | 6 | | CEV6248 | ATIKSU ARITMA TESİSİ BİYOKİNETİK TEKNİKLERİ | S | 3 | 0 | 0 | 3 | 6 | |
| CEV6301 | İLERİ ÇEVRE MÜHENDİSLİĞİ KİMYASI II | | | S | 3 | 0 | 0 | 3 | 6 | | CEV6250 | İLERİ OKSİDASYON ve MEMBRAN TEKNOLOJİLERİYLE  SU ve ATIKSU ARITIMI | S | 3 | 0 | 0 | 3 | 6 | |
| CEV6303 | BİYOKÜTLE ENERJİSİ TEKNOLOJİLERİ | | | S | 3 | 0 | 0 | 3 | 6 | | CEV6252 | ATIK ve ATIK SU ARITIMI İÇİN BİYOTEKNOLOJİK PROSESLER | S | 3 | 0 | 0 | 3 | 6 | |
| CEV6305 | TEHLİKELİ HAVA KİRLETİCİLER ve RİSK ANALİZİ | | | S | 3 | 0 | 0 | 3 | 6 | | CEV6254 | AKTİF ÇAMUR SİSTEMLERİNİN MODELLENMESİ | S | 3 | 0 | 0 | 3 | 6 | |
| CEV6307 | PARTİKÜLER KİRLETİCİLERİN KONTROLÜ | | | S | 3 | 0 | 0 | 3 | 6 | | CEV6256 | İKLİM DEĞİŞİKLİĞİ ETKİLERİ ve ADAPTASYON | S | 3 | 0 | 0 | 3 | 6 | |
| CEV6309 | DEZENFEKSİYON YAN ÜRÜNLERİ VE KONNTROLÜ | | | S | 3 | 0 | 0 | 3 | 6 | | CEV6258 | GAZ KİRLETİCİLERİN KONTROLÜ | S | 3 | 0 | 0 | 3 | 6 | |
|  | | CEV6311 | MESLEKİ YABANCI DİL | | | S | 3 | 0 | 0 | 3 | 6 | | CEV6260 | İÇ ORTAM HAVA KİRLİLİĞİ | S | 3 | 0 | 0 | 3 | 6 | |
|  | |  |  | | |  |  |  |  |  |  | | CEV6262 | İKLİM DEĞİŞİKLİĞİNİN SU KAYNAKLARINA ETKİLERİ VE MODELLEMESİ | S | 2 | 2 | 0 | 3 | 6 | |
|  | |  |  | | |  |  |  |  |  |  | | CEV6264 | SU KİMYASI | S | 2 | 0 | 2 | 3 | 6 | |
|  | |  |  | | |  |  |  |  |  |  | | CEV6266 | KİRLETİCİLERİN ÇOKLU ORTAMLARDA TAŞINIMI VE MODELLENMESİ | S | 3 | 0 | 0 | 3 | 6 | |
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|  | | | | | | **BURSA ULUDAĞ UNIVERSITY**  **INSTITUTE OF NATURAL AND APPLIED SCIENCES**  **2025-2026 ACADEMIC YEAR COURSE PLAN** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **FR 1.1.1\_02** | | | | | | | |
| **DEPARTMENT OF** | | | | | | | **ENVIRONMENTAL ENGINEERING** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **DEPARTMENT / PROGRAM** | | | | | | | Doctoral Program | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COURSE STAGE** | **I. TERM / FALL** | | | | | | | | | | | | | | | | | | | | | | **II. TERM / SPRING** | | | | | | | | | | | | | | | | | | | | |
| **Code** | | | | **Course Title** | | | | **Type** | | | **T** | | **U** | | **L** | | **Credit** | | | **ECTS** | | **Code** | | | **Course Title** | | **Type** | | | **T** | | **U** | | **L** | | **Credit** | | | **ECTS** | | |
| CEV6191 | | | | PHD THESIS CONSULTING I | | | | C | | | 0 | | 1 | | 0 | | 0 | | | 1 | | CEV6192 | | | PHD THESIS CONSULTING II | | C | | | 0 | | 1 | | 0 | | 0 | | | 1 | | |
| CEV6181 | | | | ADVANCED TOPICS IN PHD THESIS I | | | | C | | | 4 | | 0 | | 0 | | 0 | | | 5 | | CEV6182 | | | ADVANCED TOPICS IN PHD THESIS II | | C | | | 4 | | 0 | | 0 | | 0 | | | 5 | | |
|  | | | |  | | | |  | | |  | |  | |  | |  | | |  | | CEV6172 | | | SEMINAR | | C | | | 0 | | 2 | | 0 | | 0 | | | 4 | | |
|  | | | |  | | | |  | | |  | |  | |  | |  | | |  | | FEN6002 | | | TECHNOLOGY TRANSFER, R&D AND INNOVATION | | C | | | 2 | | 0 | | 0 | | 2 | | | 2 | | |
| CEV | | | | ELECTIVE COURSE | | | | E | | |  | |  | |  | | 3 | | | 6 | | CEV | | | ELECTIVE COURSE | | E | | |  | |  | |  | | 3 | | | 6 | | |
| CEV | | | | ELECTIVE COURSE | | | | E | | |  | |  | |  | | 3 | | | 6 | | CEV | | | ELECTIVE COURSE | | E | | |  | |  | |  | | 3 | | | 6 | | |
| CEV | | | | ELECTIVE COURSE | | | | E | | |  | |  | |  | | 3 | | | 6 | |  | | | ELECTIVE COURSE \* | | E | | |  | |  | |  | | 3 | | | 6 | | |
|  | | | | ELECTIVE COURSE \* | | | | E | | |  | |  | |  | | 3 | | | 6 | |  | | |  | |  | | |  | |  | |  | |  | | |  | | |
| **Total Credits/ECTS** | | | | | | | | | | | | | | | | | **12** | | | **30** | | **Total Credits/ECTS** | | | | | | | | | | | | | | **11** | | | **30** | | | |
| **STAGE THESIS** | **III. TERM / FALL** | | | | | | | | | | | | | | | | | | | | | | **IV. TERM / SPRING** | | | | | | | | | | | | | | | | | | | | |
| CEV6183 | | | | ADVANCED TOPICS IN PHD THESIS III | | | | C | | | 4 | | 0 | | 0 | | 0 | | | 5 | | CEV6184 | | | ADVANCED TOPICS IN PHD THESIS IV | | C | | | 4 | | 0 | | 0 | | 0 | | | 5 | | |
| CEV6193 | | | | PHD THESIS CONSULTING III | | | | C | | | 0 | | 1 | | 0 | | 0 | | | 15 | | CEV6194 | | | PHD THESIS CONSULTING IV | | C | | | 0 | | 1 | | 0 | | 0 | | | 25 | | |
| YET6177 | | | | PHD PROFICIENCY EXAMINATION | | | | C | | | 0 | | 0 | | 0 | | 0 | | | 10 | |  | | |  | |  | | |  | |  | |  | |  | | |  | | |
| **Total Credits/ECTS** | | | | | | | | | | | | | | | | | **0** | | | **30** | | **Total Credits/ECTS** | | | | | | | | | | | | | | **0** | | | **30** | | | |
| **V. TERM / FALL** | | | | | | | | | | | | | | | | | | | | | | **VI. TERM / SPRING** | | | | | | | | | | | | | | | | | | | | |
| CEV6185 | | | | ADVANCED TOPICS IN PHD THESIS V | | | | C | | | 4 | | 0 | | 0 | | 0 | | | 5 | | CEV6186 | | | ADVANCED TOPICS IN PHD THESIS VI | | C | | | 4 | | 0 | | 0 | | 0 | | | 5 | | |
| CEV6195 | | | | PHD THESIS CONSULTING V | | | | C | | | 0 | | 1 | | 0 | | 0 | | | 25 | | CEV6196 | | | PHD THESIS CONSULTING VI | | C | | | 0 | | 1 | | 0 | | 0 | | | 25 | | |
| **Total Credits/ECTS** | | | | | | | | | | | | | | | | | **0** | | | **30** | | **Total Credits/ECTS** | | | | | | | | | | | | | | **0** | | | **30** | | | |
| **VII. TERM / FALL** | | | | | | | | | | | | | | | | | | | | | | **VIII. TERM / SPRING** | | | | | | | | | | | | | | | | | | | | |
| CEV6187 | | | | ADVANCED TOPICS IN PHD THESIS VII | | | | C | | 4 | | | 0 | | 0 | | 0 | | | 5 | | CEV6188 | | | ADVANCED TOPICS IN PHD THESIS VIII | | C | | | 4 | | 0 | | 0 | | 0 | | | 5 | | |
| CEV6197 | | | | PHD THESIS CONSULTING VII | | | | C | | 0 | | | 1 | | 0 | | 0 | | | 25 | | CEV6198 | | | PHD THESIS CONSULTING VIII | | C | | | 0 | | 1 | | 0 | | 0 | | | 25 | | |
| **Total Credits/ECTS** | | | | | | | | | | | | | | | | | **0** | | | **30** | | **Total Credits/ECTS** | | | | | | | | | | | | | | | **0** | | | **30** | | |
| **TOTAL CREDITS: 23 - TOTAL ECTS: 240** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | **BURSA ULUDAĞ UNIVERSİTY**  **INSTITUTE OF NATURAL AND APPLIED SCIENCES**  **2025-2026 ACADEMIC YEAR COURSE PLAN (ELECTIVE COURSES)** | | | | | | | | | | | | | | | | | | | | | | | | | | **FR 1.1.1\_02** | | | | | | | | | | | |
| **ANABİLİM/ ANASANAT DALI** | | | | | | | | **ENVIRONMENTAL ENGINEERING** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **BİLİM/ SANAT DALI / PROGRAMI** | | | | | | | | Doctoral Program | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | | **I. TERM / FALL** | | | | | | | | | | | | | | | | | | | | **II. TERM / SPRING** | | | | | | | | | | | | | | | | | | | |
| **Code** | **Course Title** | | | | | | | **Type** | | | **T** | | **U** | | **L** | | **Credit** | **ECTS** | | **Code** | | | **Course Title** | | **Type** | | **T** | **U** | | **L** | | **Credit** | | | | | **ECTS** | |
| CEV6123 | LAKE WATER QUALITY MODELLING | | | | | | | E | | | 2 | | 2 | | 0 | | 3 | 6 | | CEV6124 | | | SURFACE WATER QUALITY MODELLING | | E | | 2 | 2 | | 0 | | 3 | | | | | 6 | |
| CEV6221 | HAZARDOUS WASTES | | | | | | | E | | | 2 | | 2 | | 0 | | 3 | 6 | | CEV6208 | | | DISPOSAL TECHNIQUES OF DOMESTIC AND INDUSTRIAL SLUDGE | | E | | 2 | 2 | | 0 | | 3 | | | | | 6 | |
| CEV6225 | STABILIZATION AND SOLIDIFICATION OF HAZARDOUS WASTES | | | | | | | E | | | 3 | | 0 | | 0 | | 3 | 6 | | CEV6224 | | | TREATMENT AND DISPOSAL OF INDUSTRIAL WASTES | | E | | 2 | 2 | | 0 | | 3 | | | | | 6 | |
| CEV6227 | COMPUTER SUPPORTED MODEL APPROACHES IN ACTIVATED SLUDGE SYSTEMS | | | | | | | E | | | 2 | | 2 | | 0 | | 3 | 6 | | CEV6242 | | | AIR POLLUTION METEOROLOGY | | E | | 3 | 0 | | 0 | | 3 | | | | | 6 | |
| CEV6229 | BIOLOGICAL TREATMENT OF TOXIC ORGANIC COMPOUNDS | | | | | | | E | | | 3 | | 0 | | 0 | | 3 | 6 | | CEV6244 | | | USE OF RESPIROMETRIC METHOD IN DESIGN AND OPERATION OF ACTIVATED SLUDGE PROCESS | | E | | 2 | 0 | | 2 | | 3 | | | | | 6 | |
| CEV6231 | ADVANCED TREATMENT TECHNIQUES | | | | | | | E | | | 2 | | 2 | | 0 | | 3 | 6 | | CEV6246 | | | OPERATION OF TREATMENT PLANTS | | E | | 2 | 0 | | 2 | | 3 | | | | | 6 | |
| CEV6233 | LAND APPLICATION OF WASTEWATER SLUDGES | | | | | | | E | | | 3 | | 0 | | 0 | | 3 | 6 | | CEV6248 | | | BIOKINETICS TECHNIQUES OF WASTEWATER TREATMENT PLANTS | | E | | 3 | 0 | | 0 | | 3 | | | | | 6 | |
| CEV6301 | ADVANCED ENVIRONMENTAL ENGINEERING CHEMISTRY II | | | | | | | E | | | 3 | | 0 | | 0 | | 3 | 6 | | CEV6250 | | | WATER AND WASTEWATER TREATMENT WITH ADVANCED OXIDATION AND MEMBRANE TECHNOLOGIES | | E | | 3 | 0 | | 0 | | 3 | | | | | 6 | |
| CEV6303 | BIOMASS ENERGY TECHNOLOGIES | | | | | | | E | | | 3 | | 0 | | 0 | | 3 | 6 | | CEV6252 | | | WASTE AND WASTEWATER TREATMENT FOR BIOTECHNOLOGY PROCESSES | | E | | 3 | 0 | | 0 | | 3 | | | | | 6 | |
| CEV6305 | HAZARDOUS AIR POLLUTANTS AND RISK ANALYSIS | | | | | | | E | | | 3 | | 0 | | 0 | | 3 | 6 | | CEV6254 | | | MODELLING OF ACTIVATED SLUDGE SYSTEMS | | E | | 3 | 0 | | 0 | | 3 | | | | | 6 | |
| CEV6307 | CONTROL OF PARTICULATE POLLUTANTS | | | | | | | E | | | 3 | | 0 | | 0 | | 3 | 6 | | CEV6256 | | | CLIMATE CHANGE IMPACTS AND ADAPTATION | | E | | 3 | 0 | | 0 | | 3 | | | | | 6 | |
| CEV6309 | DISINFECTION BY-PRODUCTS AND CONTROL OF THE DISINFECTION BY-PRODUCTS | | | | | | | E | | | 3 | | 0 | | 0 | | 3 | 6 | | CEV6258 | | | CONTROL OF GASEOUS POLLUTANTS | | E | | 3 | 0 | | 0 | | 3 | | | | | 6 | |
|  | | CEV6311 | PROFESSIONAL FOREIGN LANGUAGE | | | | | | | E | | | 3 | | 0 | | 0 | | 3 | 6 | | CEV6260 | | | INDOOR AIR POLLUTION | | E | | 3 | 0 | | 0 | | 3 | | | | | 6 | |
|  | |  |  | | | | | | |  | | |  | |  | |  | |  |  | | CEV6262 | | | EFFECTS OF CLIMATE CHANGE ON WATER RESOURCES AND MODELING | | E | | 2 | 2 | | 0 | | 3 | | | | | 6 | |
|  | |  |  | | | | | | |  | | |  | |  | |  | |  |  | | CEV6264 | | | WATER CHEMISTRY | | E | | 2 | 0 | | 2 | | 3 | | | | | 6 | |
|  | |  |  | | | | | | |  | | |  | |  | |  | |  |  | | CEV6266 | | | TRANSPORT AND MODELİNG OF POLLUTANTS İN MULTİMEDİA ENVİRONMENTS | | E | | 3 | 0 | | 0 | | 3 | | | | | 6 | |
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|  | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI DERS PLANLARI** | **FR 1.1.1\_02** |

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| **ANABİLİM DALI** | | | | CEVRE MÜHENDİSLİĞİ | | | | | | | | | | | | | | | | | | | |
| **BİLİM DALI / PROGRAMI** | | | | /Doktora(lisans derecesi ile) | | | | | | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | **I. YARIYIL / GÜZ** | | | | | | | | | | | | **II. YARIYIL / BAHAR** | | | | | | | | | | |
| **Kodu** | | **Dersin Adı** | | **Türü** | | | **T** | **U** | **L** | **Kredi** | **AKTS** | **Kodu** | | **Dersin Adı** | **Türü** | **T** | **U** | **L** | | **Kredi** | | **AKTS** |
| CEV6191 | | DOKTORA TEZ DANIŞMANLIĞI I | | Z | | | 0 | 1 | 0 | 0 | 1 | CEV6192 | | DOKTORA TEZ DANIŞMANLIĞI II | Z | 0 | 1 | 0 | | 0 | | 1 |
| CEV6181 | | DOKTORA UZMANLIK ALAN DERSİ I | | Z | | | 4 | 0 | 0 | 0 | 5 | CEV6182 | | DOKTORA UZMANLIK ALAN DERSİ II | Z | 4 | 0 | 0 | | 0 | | 5 |
| CEV5 | | SEÇMELİ DERS | | S | | |  |  |  | 3 | 6 |  | |  |  |  |  |  | |  | |  |
| CEV5 | | SEÇMELİ DERS | | S | | |  |  |  | 3 | 6 | CEV5 | | SEÇMELİ DERS | S |  |  |  | | 3 | | 6 |
| CEV5 | | SEÇMELİ DERS | | S | | |  |  |  | 3 | 6 | CEV5 | | SEÇMELİ DERS | S |  |  |  | | 3 | | 6 |
| **Toplam Kredi/AKTS** | | | | | | | | | | **12** | **30** | **Toplam Kredi/AKTS** | | | | | | | | **12** | | **30** |
| **TEZ AŞAMASI** | **III. YARIYIL / GÜZ** | | | | | | | | | | | | **IV. YARIYIL / BAHAR** | | | | | | | | | | |
| CEV6193 | DOKTORA TEZ DANIŞMANLIĞI III | | | | Z | | 0 | 1 | 0 | 0 | 1 | CEV6172 | | SEMİNER | Z | 0 | 2 | 0 | | 0 | | 2 |
| CEV6183 | DOKTORA UZMANLIK ALAN DERSİ III | | | | Z | | 4 | 0 | 0 | 0 | 5 | FEN6002 | | TEKNOLOJİ TRANSFERİ, AR-GE VE İNOVASYON | Z | 2 | 0 | 0 | | 2 | | 2 |
|  |  | | | |  | |  |  |  |  |  | FEN5000 | | ARAŞTIRMA TEKNİKLERİ VE YAYIN ETİĞİ | Z | 2 | 0 | 0 | | 2 | | 2 |
|  |  | | | |  | |  |  |  |  |  | CEV6194 | | DOKTORA TEZ DANIŞMANLIĞI IV | Z | 0 | 1 | 0 | | 0 | | 1 |
| CEV6 | SEÇMELİ DERS | | | | S | |  |  |  | 3 | 6 | CEV6184 | | DOKTORA UZMANLIK ALAN DERSİ IV | Z | 4 | 0 | 0 | | 0 | | 5 |
| CEV6 | SEÇMELİ DERS | | | | S | |  |  |  | 3 | 6 | CEV6 | | SEÇMELİ DERS | S |  |  |  | | 3 | | 6 |
| CEV6 | SEÇMELİ DERS | | | | S | |  |  |  | 3 | 6 | CEV6 | | SEÇMELİ DERS | S |  |  |  | | 3 | | 6 |
|  | SEÇMELİ DERS \* | | | | S | |  |  |  | 3 | 6 |  | | SEÇMELİ DERS\* | S |  |  |  | | 3 | | 6 |
| **Toplam Kredi/AKTS** | | | | | | | | | | **12** | **30** | **Toplam Kredi/AKTS** | | | | | | | | **11** | | **30** |
| **V. YARIYIL / GÜZ** | | | | | | | | | | | | **VI. YARIYIL / BAHAR** | | | | | | | | | | |
| YET6177 | DOKTORA YETERLİLİK SINAVI | | | | Z | | 0 | 0 | 0 | 0 | 10 | CEV6186 | DOKTORA UZMANLIK ALAN DERSİ VI | | Z | 4 | 0 | 0 | | 0 | | 5 |
| CEV6185 | DOKTORA UZMANLIK ALAN DERSİ V | | | | Z | | 4 | 0 | 0 | 0 | 5 | CEV6196 | DOKTORA TEZ DANIŞMANLIĞI VI | | Z | 0 | 1 | 0 | | 0 | | 25 |
| CEV6195 | DOKTORA TEZ DANIŞMANLIĞI V | | | | Z | | 0 | 1 | 0 | 0 | 15 |  |  | |  |  |  |  | |  | |  |
| **Toplam Kredi/AKTS** | | | | | | | | | | **0** | **30** | **Toplam Kredi/AKTS** | | | | | | | | **0** | | **30** |
| **VII. YARIYIL / GÜZ** | | | | | | | | | | | | **VIII. YARIYIL / BAHAR** | | | | | | | | | | |
| CEV6187 | DOKTORA UZMANLIK ALAN DERSİ VII | | | | Z | 4 | | 0 | 0 | 0 | 5 | CEV6188 | DOKTORA UZMANLIK ALAN DERSİ VIII | | Z | 4 | 0 | 0 | 0 | | 5 | |
| CEV6197 | DOKTORA TEZ DANIŞMANLIĞI VII | | | | Z | 0 | | 1 | 0 | 0 | 25 | CEV6198 | DOKTORA TEZ DANIŞMANLIĞI VIII | | Z | 0 | 1 | 0 | 0 | | 25 | |
| **Toplam Kredi/AKTS** | | | | | | | | | | **0** | **30** | **Toplam Kredi/AKTS** | | | | | | | **0** | | **30** | |
| **IX. YARIYIL / GÜZ** | | | | | | | | | | | | **X. YARIYIL / BAHAR** | | | | | | | | | | |
| CEV6189 | DOKTORA UZMANLIK ALAN DERSİ IX | | | | Z | 4 | | 0 | 0 | 0 | 5 | CEV6190 | DOKTORA UZMANLIK ALAN DERSİ X | | Z | 4 | 0 | 0 | 0 | | 5 | |
| CEV6199 | DOKTORA TEZ DANIŞMANLIĞI IX | | | | Z | 0 | | 1 | 0 | 0 | 25 | CEV6200 | DOKTORA TEZ DANIŞMANLIĞI X | | Z | 0 | 1 | 0 | 0 | | 25 | |
| **Toplam Kredi/AKTS** | | | | | | | | | | **0** | **30** | **Toplam Kredi/AKTS** | | | | | | | **0** | | **30** | |
| **TOPLAM KREDİ: 47 - TOPLAM AKTS: 300** | | | | | | | | | | | | | | | | | | | | | | | |

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|  | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI DERS PLANLARI** | **FR 1.1.1\_02** |

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| **ANABİLİM DALI** | | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | | | | | | | |
| **BİLİM DALI / PROGRAMI** | | | | Doktora(lisans derecesi ile) | | | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | **I. YARIYIL / GÜZ** | | | | | | | | | | | | **II. YARIYIL / BAHAR** | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Türü** | | **T** | **U** | **L** | **Kredi** | **AKTS** | **Kodu** | | **Dersin Adı** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** |
| CEV5121 | ÇEVRE YÖNETİMİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5102 | | ÇEVRESEL ENSTRÜMENTAL ANALİZ TEKNİĞİ | S | 2 | 0 | 2 | 3 | 6 |
| CEV5243 | ENDÜSTRİYEL HAVA KİRLİLİĞİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5122 | | SU KALİTESİ YÖNETİMİ | S | 2 | 2 | 0 | 3 | 6 |
| CEV5247 | ÇEVRE TEKNOLOJİSİNİN TEMELLERİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5148 | | ENDÜSTRİYEL ATIKSULARDA GERİ KAZANIM ve TEKRAR KULLANIM TEKNİKLERİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5249 | ATIKSU ARITMA TESİSİ BOYUTLANDIRMA KRİTERLERİ | | | S | | 2 | 2 | 0 | 3 | 6 | CEV5222 | | ENDÜSTRİYEL ATIK YÖNETİMİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5251 | BACAGAZI ÖLÇÜM ve ANALİZİ | | | S | | 2 | 0 | 2 | 3 | 6 | CEV5224 | | BİYOLOJİK ARITMANIN PRENSİPLERİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5253 | DIŞ HAVA KALİTESİ ÖLÇÜM ve İZLENMESİ | | | S | | 2 | 0 | 2 | 3 | 6 | CEV5226 | | ATIKSU MÜHENDİSLİĞİ | S | 2 | 2 | 0 | 3 | 6 |
| CEV5255 | ATIKSU ARITIMINDA SULAK ALAN SİSTEMLERİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5228 | | ATIKSU ARITIMINDA İYON DEĞİŞİMİ ve ADSORPSİYON TEKNOLOJİSİ | S | 2 | 2 | 0 | 3 | 6 |
| CEV5265 | TEMİZ ÜRETİM TEKNİKLERİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5230 | | DÜZENLİ KATI ATIK DEPONİ ALANLARININ OLUŞTURULMASI | S | 2 | 2 | 0 | 3 | 6 |
| CEV5267 | SU ve ATIKSU MİKROBİYOLOJİSİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5232 | | HAVA KİRLİLİĞİ MÜHENDİSLİĞİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5269 | ATIKLARIN ANAEROBİK ARITIMI | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5234 | | ATMOSFERİK TAŞINIM ve ÇÖKELME | S | 2 | 0 | 2 | 3 | 6 |
| CEV5271 | SERA GAZI HESAPLAMA YÖNTEMLERİ ve İKLİM DEĞİŞİKLİĞİ | | | S | | 2 | 2 | 0 | 3 | 6 | CEV5236 | | SU ve ATIKSU ARITMA TESİSLERİNİN ENSTRÜMENTASYONU ve KONTROLÜ | S | 2 | 2 | 0 | 3 | 6 |
| CEV5273 | ÇEVRE MÜHENDİSLİĞİNDE NANOTEKNOLOJİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5238 | | SU KALİTESİNİN BELİRLENMESİNDE BİYOİNDİKATÖR CANLILAR | S | 3 | 0 | 0 | 3 | 6 |
| CEV5275 | ENTEGRE ATIK YÖNETİMİ TEKNOLOJİLERİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5242 | | SU ve ATIKSULARIN DEZENFEKSİYONU | S | 3 | 0 | 0 | 3 | 6 |
| CEV5279 | SIZINTI SULARININ OLUŞUMU ve ARITIMI | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5244 | | ÇEVRE MÜHENDİSLİĞİ İÇİN BİYOMOLEKÜLER TEKNİKLER | S | 3 | 0 | 0 | 3 | 6 |
| CEV5281 | ENDÜSTRİYEL ATIKSULARIN BİYOLOJİK ARITIMI | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5246 | | İLERİ ATMOSFER KİMYASI | S | 3 | 0 | 0 | 3 | 6 |
| CEV5301 | KİMYASALLARIN ÇEVRESEL HAREKETİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5250 | | ARAZİDE ARITMA | S | 3 | 0 | 0 | 3 | 6 |
| CEV5303 | KOMPOST TEKNOLOJİSİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5302 | | ÇEVRE MÜHENDİSLERİ İÇİN İSTATİSTİK | S | 3 | 0 | 0 | 3 | 6 |
| CEV5305 | BİYOYAKIT ÜRETİMİ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5304 | | İLERİ ÇEVRE MÜHENDİSLİĞİ KİMYASI I | S | 3 | 0 | 0 | 3 | 6 |
| CEV5307 | SEDİMAN KİRLİLİĞİ VE TAŞINIMI | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5306 | | ÇEVRE KİRLİLİĞİ VE KONTROLÜNDE ENERJİ VERİMLİLİĞİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5311 | TOPRAK KİRLİLİĞİ VE KONTROLÜ | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5308 | | ÇEVRE TOKSİKOLOJİSİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5315 | ENDÜSTRİYEL EKOLOJİ VE SÜRDÜRÜLEBİLİRLİK | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5310 | | NEHİR HAVZALARI HİDROLOJİSİ VE TAŞKIN – KURAKLIK MODELLEMESİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5317 | MESLEKİ YABANCI DİL | | | S | | 3 | 0 | 0 | 3 | 6 | CEV5312 | | İLERİ FİZİKO – KİMYASAL ARITMA PROSESLERİ | S | 3 | 0 | 0 | 3 | 6 |
|  |  | | |  | |  |  |  |  |  | CEV5314 | | ARITMA ÇAMURU VE TOPRAK ANALİZLERİ | S | 2 | 0 | 2 | 3 | 6 |
|  |  | | |  | |  |  |  |  |  | CEV5316 | | ARITMA ÇAMURLARININ SUSUZLAŞTIRILMASI | S | 3 | 0 | 0 | 3 | 6 |
|  |  | | |  | |  |  |  |  |  | CEV5318 | | ORGANİK MİKROKİRLETİCİLER VE KONTROLÜ | S | 3 | 0 | 0 | 3 | 6 |
|  |  |  | | |  | |  |  |  |  |  | CEV5324 | | SUCUL EKOSİSTEMLERİN YÖNETİMİ | S | 3 | 0 | 0 | 3 | 6 |
| **TEZ AŞAMASI** | **III. YARIYIL / GÜZ** | | | | | | | | | | | | **IV. YARIYIL / BAHAR** | | | | | | | |
| CEV6123 | | GÖL SU KALİTESİ MODELLEMESİ | | | S | 2 | 2 | 0 | 3 | 6 | CEV6124 | | YÜZEYSEL SU KALİTESİ MODELLEMESİ | S | 2 | 2 | 0 | 3 | 6 |
| CEV6221 | | TEHLİKELİ ve ZARARLI ATIKLAR | | | S | 2 | 2 | 0 | 3 | 6 | CEV6208 | | EVSEL ve ENDÜSTRİYEL AKTİF ÇAMUR BERTARAF TEKNİKLERİ | S | 2 | 2 | 0 | 3 | 6 |
| CEV6225 | | TEHLİKELİ ATIKLARIN STABİLİZASYONU ve SOLİDİFİKASYONU | | | S | 3 | 0 | 0 | 3 | 6 | CEV6224 | | ENDÜSTRİYEL ATIK ARITIMI ve BERTARAFI | S | 2 | 2 | 0 | 3 | 6 |
| CEV6227 | | AKTİF ÇAMUR SİSTEMLERİNDE BİLGİSAYAR DESTEKLİ MODEL YAKLAŞIMLARI | | | S | 2 | 2 | 0 | 3 | 6 | CEV6242 | | HAVA KİRLİLİĞİ METEOROLOJİSİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV6229 | | TOKSİK ORGANİK BİLEŞİKLERİN BİYOLOJİK ARITIMI | | | S | 3 | 0 | 0 | 3 | 6 | CEV6244 | | AKTİF ÇAMUR PROSESİNİN DİZAYNI ve İŞLETİMİNDE RESPİROMETRİK METODUN KULLANILMASI | S | 2 | 0 | 2 | 3 | 6 |
| CEV6231 | | İLERİ ARITMA TEKNİKLERİ | | | S | 2 | 2 | 0 | 3 | 6 | CEV6246 | | ARITMA TESİSLERİ İŞLETİLMESİ | S | 2 | 0 | 2 | 3 | 6 |
| CEV6233 | | ARITMA ÇAMURLARININ ARAZİYE UYGULANMASI | | | S | 3 | 0 | 0 | 3 | 6 | CEV6248 | | ATIKSU ARITMA TESİSİ BİYOKİNETİK TEKNİKLERİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV6301 | | İLERİ ÇEVRE MÜHENDİSLİĞİ KİMYASI II | | | s | 3 | 0 | 0 | 3 | 6 | CEV6250 | | İLERİ OKSİDASYON ve MEMBRAN TEKNOLOJİLERİYLE  SU ve ATIKSU ARITIMI | S | 3 | 0 | 0 | 3 | 6 |
| CEV6303 | | BİYOKÜTLE ENERJİSİ TEKNOLOJİLERİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV6252 | | ATIK ve ATIK SU ARITIMI İÇİN BİYOTEKNOLOJİK PROSESLER | S | 3 | 0 | 0 | 3 | 6 |
| CEV6305 | | TEHLİKELİ HAVA KİRLETİCİLER ve RİSK ANALİZİ | | | S | 3 | 0 | 0 | 3 | 6 | CEV6254 | | AKTİF ÇAMUR SİSTEMLERİNİN MODELLENMESİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV6307 | | PARTİKÜLER KİRLETİCİLERİN KONTROLÜ | | | S | 3 | 0 | 0 | 3 | 6 | CEV6256 | | İKLİM DEĞİŞİKLİĞİ ETKİLERİ ve ADAPTASYON | S | 3 | 0 | 0 | 3 | 6 |
| CEV6309 | | DEZENFEKSİYON YAN ÜRÜNLERİ VE KONNTROLÜ | | | S | 3 | 0 | 0 | 3 | 6 | CEV6258 | | GAZ KİRLETİCİLERİN KONTROLÜ | S | 3 | 0 | 0 | 3 | 6 |
|  |  | |  | | |  |  |  |  |  |  | CEV6260 | | İÇ ORTAM HAVA KİRLİLİĞİ | S | 3 | 0 | 0 | 3 | 6 |
|  |  | |  | | |  |  |  |  |  |  | CEV6262 | | İKLİM DEĞİŞİKLİĞİNİN SU KAYNAKLARINA ETKİLERİ VE MODELLEMESİ | S | 2 | 2 | 0 | 3 | 6 |
|  |  | |  | | |  |  |  |  |  |  | CEV6264 | | SU KİMYASI | S | 2 | 0 | 2 | 3 | 6 |
|  |  | |  | | |  |  |  |  |  |  | CEV6266 | | KİRLETİCİLERİN ÇOKLU ORTAMLARDA TAŞINIMI VE MODELLENMESİ | S | 3 | 0 | 0 | 3 | 6 |
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|  | **BURSA ULUDAĞ UNIVERSITY**  **INSTITUTE OF NATURAL AND APPLIED SCIENCES**  **2025-2026 ACADEMIC YEAR COURSE PLAN** | **FR 1.1.1\_02** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **ANABİLİM DALI** | | | ENVIRONMENTAL ENGINEERING | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **BİLİM DALI / PROGRAMI** | | | INTEGRATED DOCTORAL PROGRAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COURSE STAGE** | **I. TERM / FALL** | | | | | | | | | | | | | **II. TERM / SPRING** | | | | | | | | | | | | | | | | | |
| **Code** | **Course Title** | | **Type** | | | **T** | | **U** | | **L** | **Credit** | **ECTS** | **Code** | | | **Course Title** | | **Type** | | **T** | | **U** | | **L** | | **Credit** | | | | **ECTS** |
| CEV6191 | PHD THESIS CONSULTING I | | C | | | 0 | | 1 | | 0 | 0 | 1 | CEV6192 | | | PHD THESIS CONSULTING II | | C | | 0 | | 1 | | 0 | | 0 | | | | 1 |
| CEV6181 | SPECIAL TOPICS IN PHD THESIS I | | C | | | 4 | | 0 | | 0 | 0 | 5 | CEV6182 | | | SPECIAL TOPICS IN PHD THESIS II | | C | | 4 | | 0 | | 0 | | 0 | | | | 5 |
|  |  | |  | | |  | |  | |  |  |  |  | | |  | |  | |  | |  | |  | |  | | | |  |
| CEV5 | ELECTIVE COURSE | | E | | |  | |  | |  | 3 | 6 |  | | |  | |  | |  | |  | |  | |  | | | |  |
| CEV5 | ELECTIVE COURSE | | E | | |  | |  | |  | 3 | 6 | CEV5 | | | ELECTIVE COURSE | | E | |  | |  | |  | | 3 | | | | 6 |
| CEV5 | ELECTIVE COURSE | | E | | |  | |  | |  | 3 | 6 | CEV5 | | | ELECTIVE COURSE | | E | |  | |  | |  | | 3 | | | | 6 |
| **Total Credits/ECTS** | | | | | | | | | | | **12** | **30** | **Total Credits/ECTS** | | | | | | | | | | | | | **12** | | | | **30** |
| **THESIS STAGE** | **I. TERM / FALL** | | | | | | | | | | | | | **IV. TERM / SPRING** | | | | | | | | | | | | | | | | | |
| CEV6183 | SPECIAL TOPICS IN PHD THESIS III | | | C | | 4 | | 0 | | 0 | 0 | 5 | CEV6174 | | | SEMINAR | | C | | 0 | | 2 | | 0 | | 0 | | | | 2 |
|  |  | | |  | |  | |  | |  |  |  | FEN6002 | | | TECHNOLOGY TRANSFER, R&D AND INNOVATION | | C | | 2 | | 0 | | 0 | | 2 | | | | 2 |
|  |  | | |  | |  | |  | |  |  |  | FEN5000 | | | RESEARCH TECHNIQUES and PUBLICATION ETHICS | | C | | 2 | | 0 | | 0 | | 2 | | | | 2 |
| CEV6193 | PHD THESIS CONSULTING III | | | C | | 0 | | 1 | | 0 | 0 | 1 | CEV6194 | | | PHD THESIS CONSULTING IV | | C | | 0 | | 1 | | 0 | | 0 | | | | 1 |
| CEV6 | ELECTIVE COURSE | | | E | |  | |  | |  | 3 | 6 | CEV6184 | | | SPECIAL TOPICS IN PHD THESIS IV | | C | | 4 | | 0 | | 0 | | 0 | | | | 5 |
| CEV6 | ELECTIVE COURSE | | | E | |  | |  | |  | 3 | 6 | CEV6 | | | ELECTIVE COURSE | | E | |  | |  | |  | | 3 | | | | 6 |
| CEV6 | ELECTIVE COURSE | | | E | |  | |  | |  | 3 | 6 | CEV6 | | | ELECTIVE COURSE | | E | |  | |  | |  | | 3 | | | | 6 |
|  | ELECTIVE COURSE \* | | | E | |  | |  | |  | 3 | 6 | CEV6 | | | ELECTIVE COURSE \* | | E | |  | |  | |  | | 3 | | | | 6 |
| **Total Credits/ECTS** | | | | | | | | | | | **12** | **30** | **Total Credits/ECTS** | | | | | | | | | | | | | **11** | | | | **30** |
| **V. TERM / FALL** | | | | | | | | | | | | | **VI. TERM / SPRING** | | | | | | | | | | | | | | | | | |
| YET6177 | PHD PROFICIENCY | | | C | | 0 | | 0 | | 0 | 0 | 10 | CEV6186 | | SPECIAL TOPICS IN PHD THESIS VI | | | C | | 4 | | 0 | | 0 | | 0 | | | | 5 |
| CEV6185 | SPECIAL TOPICS IN PHD THESIS V | | | C | | 4 | | 0 | | 0 | 0 | 5 | CEV6196 | | PHD THESIS CONSULTING VI | | | C | | 0 | | 1 | | 0 | | 0 | | | | 25 |
| CEV6195 | PHD THESIS CONSULTING V | | | C | | 0 | | 1 | | 0 | 0 | 15 |  | |  | | |  | |  | |  | |  | |  | | | |  |
| **Total Credits/ECTS** | | | | | | | | | | | **0** | **30** | **Total Credits/ECTS** | | | | | | | | | | | | | **0** | | | | **30** |
| **VII. TERM / FALL** | | | | | | | | | | | | | **VIII. TERM / SPRING** | | | | | | | | | | | | | | | | | |
| CEV6187 | SPECIAL TOPICS IN PHD THESIS VII | | | C | 4 | | 0 | | 0 | | 0 | 5 | CEV6188 | SPECIAL TOPICS IN PHD THESIS VIII | | | C | | 4 | | 0 | | 0 | | | | 0 | 5 | | |
| CEV6197 | PHD THESIS CONSULTING VII | | | C | 0 | | 1 | | 0 | | 0 | 25 | CEV6198 | PHD THESIS CONSULTING VIII | | | C | | 0 | | 1 | | 0 | | | | 0 | 25 | | |
| **Total Credits/ECTS** | | | | | | | | | | | **0** | **30** | **Total Credits/ECTS** | | | | | | | | | | | | | | **0** | **30** | | |
| **IX. TERM / FALL** | | | | | | | | | | | | | **X. TERM / SPRING** | | | | | | | | | | | | | | | | | |
| CEV6189 | SPECIAL TOPICS IN PHD THESIS IX | | | C | 4 | | | 0 | | 0 | 0 | 7 | CEV6190 | | SPECIAL TOPICS IN PHD THESIS X | | | C | | 4 | | 0 | | 0 | 0 | | | | 5 | |
| CEV6199 | PHD THESIS CONSULTING IX | | | C | 0 | | | 1 | | 0 | 0 | 23 | CEV6200 | | PHD THESIS CONSULTING X | | | C | | 0 | | 1 | | 0 | 0 | | | | 25 | |
| **Total Credits/ECTS** | | | | | | | | | | | **0** | **30** | **Total Credits/ECTS** | | | | | | | | | | | | **0** | | | | **30** | |
| **TOTAL CREDITS: 47 - TOTAL ECTS: 300** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | **BURSA ULUDAĞ UNIVERSITY**  **INSTITUTE OF NATURAL AND APPLIED SCIENCES**  **2025-2026 ACADEMIC YEAR COURSE PLAN (ELECTIVE COURSES)** | **FR 1.1.1\_02** |

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| **ANABİLİM DALI** | | | ENVIRONMENTAL ENGINEERING | | | | | | | | | | | | | | | | |
| **BİLİM DALI / PROGRAMI** | | | INTEGRATED DOCTORAL PROGRAM | | | | | | | | | | | | | | | | |
| **COURSE STAGE** | **I. TERM / FALL** | | | | | | | | | | **II. TERM / SPRING** | | | | | | | | |
| **Code** | **Course Title** | | **Type** | | **T** | **U** | **L** | **Credit** | **ECTS** | **Code** | **Course Title** | **Type** | **T** | **U** | **L** | **Credit** | **ECTS** |
| CEV5121 | ENVIRONMENTAL MANAGEMENT | | E | | 3 | 0 | 0 | 3 | 6 | CEV5102 | ENVİRONMENTAL INSTRUMENTAL ANALYSIS | E | 2 | 0 | 2 | 3 | 6 |
| CEV5243 | INDUSTRIAL AIR POLLUTION | | E | | 3 | 0 | 0 | 3 | 6 | CEV5122 | WATER QUALITY MANAGEMENT | E | 2 | 2 | 0 | 3 | 6 |
| CEV5247 | BASICS OF ENVIRONMENTAL TECHNOLOGY | | E | | 3 | 0 | 0 | 3 | 6 | CEV5148 | RECYCLE AND REUSE TECHNIQUES ON INDUSTRIAL WASTEWATERS | E | 3 | 0 | 0 | 3 | 6 |
| CEV5249 | DESIGN CRITERIA FOR WASTEWATER TREATMENT PLANTS | | E | | 2 | 2 | 0 | 3 | 6 | CEV5222 | INDUSTRIAL WASTE MANAGEMENT | E | 3 | 0 | 0 | 3 | 6 |
| CEV5251 | STACK GAS MEASUREMENT AND ANALYSIS | | E | | 2 | 0 | 2 | 3 | 6 | CEV5224 | PRINCIPLES OF BIOLOGICAL TREATMENT | E | 3 | 0 | 0 | 3 | 6 |
| CEV5253 | MEASUREMENT AND MONITORING OF AMBIENT AIR | | E | | 2 | 0 | 2 | 3 | 6 | CEV5226 | WASTEWATER ENGINEERING | E | 2 | 2 | 0 | 3 | 6 |
| CEV5255 | WETLAND SYSTEMS IN WASTEWATER TREATMENT | | E | | 3 | 0 | 0 | 3 | 6 | CEV5228 | ION EXCHANGE AND ADSORPTION TECHNOLOGY IN WASTEWATER TREATMENT | E | 2 | 2 | 0 | 3 | 6 |
| CEV5265 | CLEANER PRODUCTION PRINCIPLES | | E | | 3 | 0 | 0 | 3 | 6 | CEV5230 | THE DESIGN OF LANDFILL AREAS | E | 2 | 2 | 0 | 3 | 6 |
| CEV5267 | WATER AND WASTEWATER MICROBIOLOGY | | E | | 3 | 0 | 0 | 3 | 6 | CEV5232 | AIR POLLUTION ENGINEERING | E | 3 | 0 | 0 | 3 | 6 |
| CEV5269 | ANAEROBIC TREATMENT OF WASTES | | E | | 3 | 0 | 0 | 3 | 6 | CEV5234 | ATMOSPHERIC TRANSPORT AND DEPOSITION | E | 2 | 0 | 2 | 3 | 6 |
| CEV5271 | GREENHOUSE GASES CALCULATION METHODS AND CLIMATE CHANGE | | E | | 2 | 2 | 0 | 3 | 6 | CEV5236 | INSTRUMENTATION AND AUTOMATION OF WATER AND WASTEWATER TREATMENT PLANTS | E | 2 | 2 | 0 | 3 | 6 |
| CEV5273 | NANOTECHNOLOGY IN ENVIRONMENTAL ENGINEERING | | E | | 3 | 0 | 0 | 3 | 6 | CEV5238 | BIOINDICATOR ORGANISMS IN DETERMINATION OF WATER QUALITY | E | 3 | 0 | 0 | 3 | 6 |
| CEV5275 | INTEGRATED WASTE MANAGEMENT TECHNOLOGIES | | E | | 3 | 0 | 0 | 3 | 6 | CEV5242 | DISINFECTION OF WATER AND WASTEWATER | E | 3 | 0 | 0 | 3 | 6 |
| CEV5279 | FORMATION AND TREATMENT OF LANDFILL LEACHATE | | E | | 3 | 0 | 0 | 3 | 6 | CEV5244 | MICROBIAL TECHNIQUES IN ENVIRONMENTAL ENGINEERING | E | 3 | 0 | 0 | 3 | 6 |
| CEV5281 | BIOLOGICAL TREATMENT OF INDUSTRIAL WASTEWATERS | | E | | 3 | 0 | 0 | 3 | 6 | CEV5246 | ADVANCED ATMOSPHERIC CHEMISTRY | E | 3 | 0 | 0 | 3 | 6 |
| CEV5301 | ENVIRONMENTAL MOVEMENT OF CHEMICALS | | E | | 3 | 0 | 0 | 3 | 6 | CEV5250 | ON-SITE WASTEWATER TREATMENT | E | 3 | 0 | 0 | 3 | 6 |
| CEV5303 | COMPOSTING TECHNOLOGY | | E | | 3 | 0 | 0 | 3 | 6 | CEV5302 | STATISTICS FOR ENVIRONMENTAL ENGINEERS | E | 3 | 0 | 0 | 3 | 6 |
| CEV5305 | PRODUCTION OF BIOFUELS | | E | | 3 | 0 | 0 | 3 | 6 | CEV5304 | ADVANCED ENVIRONMENTAL ENGINEERING CHEMISTRY I | E | 3 | 0 | 0 | 3 | 6 |
| CEV5307 | SEDIMENT POLLUTION AND TRANSPORT | | E | | 3 | 0 | 0 | 3 | 6 | CEV5306 | ENERGY EFFICIENCY IN ENVIRONMENTAL POLLUTION AND CONTROL | E | 3 | 0 | 0 | 3 | 6 |
| CEV5311 | SOIL POLLUTION AND CONTROL | | E | | 3 | 0 | 0 | 3 | 6 | CEV5308 | ENVİRONMENTAL TOXICOLOGY | E | 3 | 0 | 0 | 3 | 6 |
| CEV5315 | INDUSTRIAL ECOLOGY AND SUSTAINABILITY | | E | | 3 | 0 | 0 | 3 | 6 | CEV5310 | HYDROLOGY OF RIVER CATCHMENTS AND FLOOD-DROUGHT MODELLING | E | 3 | 0 | 0 | 3 | 6 |
| CEV5317 | PROFESSIONAL FOREIGN LANGUAGE | | E | | 3 | 0 | 0 | 3 | 6 | CEV5312 | ADVANCED PHYSİCO-CHEMİCAL TREATMENT PROCESSES | E | 3 | 0 | 0 | 3 | 6 |
|  |  | |  | |  |  |  |  |  | CEV5314 | WASTEWATER SLUDGE AND SOİL ANALYSİS | E | 2 | 0 | 2 | 3 | 6 |
|  |  | |  | |  |  |  |  |  | CEV5316 | DEWATERİNG OF TREATMENT SLUDGES | E | 3 | 0 | 0 | 3 | 6 |
|  |  | |  | |  |  |  |  |  | CEV5318 | ORGANIC MICROPOLLUTANTS AND CONTROL | E | 3 | 0 | 0 | 3 | 6 |
|  |  |  | |  | |  |  |  |  |  | CEV5324 | MANAGEMENT OF AQUATIC ECOSYSTEMS | E | 3 | 0 | 0 | 3 | 6 |
| **COURSE STAGE** | **III. TERM / FALL** | | | | | | | | | | **IV. TERM / SPRING** | | | | | | | | |
| CEV6123 | LAKE WATER QUALITY MODELLİNG | | | E | 2 | 2 | 0 | 3 | 6 | CEV6124 | SURFACE WATER QUALITY MODELLING | E | 2 | 2 | 0 | 3 | 6 |
| CEV6221 | HAZARDOUS WASTES | | | E | 2 | 2 | 0 | 3 | 6 | CEV6208 | DISPOSAL TECHNİQUES OF DOMESTIC AND INDUSTRIAL SLUDGE | E | 2 | 2 | 0 | 3 | 6 |
| CEV6225 | STABILIZATION AND SOLIDIFICATION OF HAZARDOUS WASTES | | | E | 3 | 0 | 0 | 3 | 6 | CEV6224 | TREATMENT AND DISPOSAL OF INDUSTRIAL WASTES | E | 2 | 2 | 0 | 3 | 6 |
| CEV6227 | COMPUTER SUPPORTED MODEL APPROACHES IN ACTIVATED SLUDGE SYSTEMS | | | E | 2 | 2 | 0 | 3 | 6 | CEV6242 | AIR POLLUTION METEOROLOGY | E | 3 | 0 | 0 | 3 | 6 |
| CEV6229 | BIOLOGICAL TREATMENT OF TOXIC ORGANIC COMPOUNDS | | | E | 3 | 0 | 0 | 3 | 6 | CEV6244 | USE OF RESPIROMETRIC METHOD IN DESIGN AND OPERATION OF ACTIVATED SLUDGE PROCESS | E | 2 | 0 | 2 | 3 | 6 |
| CEV6231 | ADVANCED TREATMENT TECHNIQUES | | | E | 2 | 2 | 0 | 3 | 6 | CEV6246 | OPERATION OF TREATMENT PLANTS | E | 2 | 0 | 2 | 3 | 6 |
| CEV6233 | LAND APPLICATION OF WASTEWATER SLUDGES | | | E | 3 | 0 | 0 | 3 | 6 | CEV6248 | BIOKINETICS TECHNIQUES OF WASTEWATER TREATMENT PLANTS | E | 3 | 0 | 0 | 3 | 6 |
| CEV6301 | ADVANCED ENVIRONMENTAL ENGINEERING CHEMISTRY II | | | E | 3 | 0 | 0 | 3 | 6 | CEV6250 | WATER AND WASTEWATER TREATMENT WITH ADVANCED OXIDATION AND MEMBRANE TECHNOLOGIES | E | 3 | 0 | 0 | 3 | 6 |
| CEV6303 | BIOMASS ENERGY TECHNOLOGIES | | | E | 3 | 0 | 0 | 3 | 6 | CEV6252 | WASTE AND WASTEWATER TREATMENT FOR BIOTECHNOLOGY PROCESSES | E | 3 | 0 | 0 | 3 | 6 |
| CEV6305 | HAZARDOUS AIR POLLUTANTS AND RISK ANALYSIS | | | E | 3 | 0 | 0 | 3 | 6 | CEV6254 | MODELLING OF ACTIVATED SLUDGE SYSTEMS | E | 3 | 0 | 0 | 3 | 6 |
| CEV6307 | CONTROL OF PARTICULATE POLLUTANTS | | | E | 3 | 0 | 0 | 3 | 6 | CEV6256 | CLIMATE CHANGE IMPACTS AND ADAPTATION | E | 3 | 0 | 0 | 3 | 6 |
| CEV6309 | DISINFECTION BY-PRODUCTS AND CONTROL OF THE DISINFECTION BY-PRODUCTS | | | E | 3 | 0 | 0 | 3 | 6 | CEV6258 | CONTROL OF GASEOUS POLLUTANTS | E | 3 | 0 | 0 | 3 | 6 |
|  |  |  | | |  |  |  |  |  |  | CEV6260 | INDOOR AIR POLLUTION | E | 3 | 0 | 0 | 3 | 6 |
|  |  |  | | |  |  |  |  |  |  | CEV6262 | EFFECTS OF CLIMATE CHANGE ON WATER RESOURCES AND MODELING | E | 2 | 2 | 0 | 3 | 6 |
|  |  |  | | |  |  |  |  |  |  | CEV6264 | WATER CHEMISTRY | E | 2 | 0 | 2 | 3 | 6 |
|  |  |  | | |  |  |  |  |  |  | CEV6266 | TRANSPORT AND MODELİNG OF POLLUTANTS İN MULTİMEDİA ENVİRONMENTS | E | 3 | 0 | 0 | 3 | 6 |

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|  | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI DERS PLANLARI** | **FR 1.1.1\_02** |

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| **ANABİLİM DALI** | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | | | | | | |
| **BİLİM DALI / PROGRAMI** | | | / Tezsiz Yüksek Lisans Programı | | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | **I. YARIYIL / GÜZ** | | | | | | | | | **II. YARIYIL / BAHAR** | | | | | | | | |
| **Kodu** | **Dersin Adı** | | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Kodu** | **Dersin Adı** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** |
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| CEV | SEÇMELİ DERS | | S |  |  |  | 3 | 6 | CEV | SEÇMELİ DERS | S |  |  |  | 3 | 6 |
| CEV | SEÇMELİ DERS | | S |  |  |  | 3 | 6 | CEV | SEÇMELİ DERS | S |  |  |  | 3 | 6 |
| CEV | SEÇMELİ DERS | | S |  |  |  | 3 | 6 | CEV | SEÇMELİ DERS | S |  |  |  | 3 | 6 |
| CEV | SEÇMELİ DERS | | S |  |  |  | 3 | 6 | CEV | SEÇMELİ DERS | S |  |  |  | 3 | 6 |
| CEV | SEÇMELİ DERS | | S |  |  |  | 3 | 6 | CEV | SEÇMELİ DERS | S |  |  |  | 3 | 6 |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Toplam Kredi/AKTS** | | | | | | | **15** | **30** | **Toplam Kredi/AKTS** | | | | | | **15** | **30** | |
| **TEZ AŞAMASI** | **III. YARIYIL / GÜZ** | | | | | | | | | **IV. YARIYIL / BAHAR (\*)** | | | | | | | | |
| CEV5001 | DÖNEM PROJESİ | | Z | 0 | 2 | 0 | 0 | 30 |  |  |  |  |  |  |  |  |
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| **Toplam Kredi AKTS** | | | | | | | **0** | **30** | **Toplam Kredi/AKTS** | | | | | |  |  | |
| **TOPLAM KREDİ: 30 - TOPLAM AKTS: 90** | | | | | | | | | | | | | | | | | | |

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|  | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI DERS PLANLARI** | **FR 1.1.1\_02** |

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| **ANABİLİM DALI** | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | | | | | |
| **BİLİM DALI / PROGRAMI** | | | / Tezsiz Yüksek Lisans Programı | | | | | | | | | | | | | | |
| **DERS AŞAMASI** | **I-III YARIYIL SEÇMELİ/ GÜZ** | | | | | | | | | **II. YARIYIL SEÇMELİ / BAHAR** | | | | | | | |
| **Kodu** | **Dersin Adı** | | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Kodu** | **Dersin Adı** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** |
| CEV5257 | İŞYERİNDE ÇEVRE GÜVENLİĞİ | | S | 3 | 0 | 0 | 3 | 6 | CEV5240 | ÇEVRE MÜHENDİSLİĞİNDE TEMEL PROSESLER II | S | 3 | 0 | 0 | 3 | 6 |
| CEV5259 | ÇEVRE MÜHENDİSLİĞİNDE TEMEL PROSESLER I | | S | 3 | 0 | 0 | 3 | 6 | CEV5248 | ÇEVRE KİRLİLİĞİ ve HALK SAĞLIĞI | S | 3 | 0 | 0 | 3 | 6 |
| CEV5263 | YENİLENEBİLİR ENERJİ ve ÇEVRE | | S | 3 | 0 | 0 | 3 | 6 | CEV5262 | ÇEVRE BİYOTEKNOLOJİSİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5277 | ATIK BERTARAFI ve YASAL MEVZUAT | | S | 3 | 0 | 0 | 3 | 6 | CEV5320 | ATIKSU ARITMA TEKNOLOJİLERİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5309 | ÇEVRE KİRLİLİĞİNİN TEMELLERİ | | S | 3 | 0 | 0 | 3 | 6 | CEV5322 | ATIK DEPOLAMA SAHASI TEKNOLOJİLERİ | S | 3 | 0 | 0 | 3 | 6 |
| CEV5317 | MESLEKİ YABANCI DİL | | S | 3 | 0 | 0 | 3 | 6 |  |  |  |  |  |  |  |  |
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|  | **BURSA ULUDAĞ UNIVERSITY**  **INSTITUTE OF NATURAL AND APPLIED SCIENCES**  **2025-2026 ACADEMIC YEAR COURSE PLAN** | **FR 1.1.1\_02** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **DEPARTMENT OF** | | | ENVIRONMENTAL ENGINEERING | | | | | | | | | | | | | | |
| **DEPARTMENT / PROGRAM** | | | / Master'sDegree Program(WithoutThesis ) | | | | | | | | | | | | | | |
| **COURSE STAGE** | **I. TERM / FALL** | | | | | | | | | **II. TERM / SPRING** | | | | | | | |
| **Code** | **Course Title** | | **Type** | **T** | **U** | **L** | **Credit** | **ECTS** | **Code** | **Course Title** | **Type** | **T** | **U** | **L** | **Credit** | **ECTS** |
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| CEV | ELECTIVE COURSE | | E |  |  |  | 3 | 6 | CEV | ELECTIVE COURSE | E |  |  |  | 3 | 6 |
| CEV | ELECTIVE COURSE | | E |  |  |  | 3 | 6 | CEV | ELECTIVE COURSE | E |  |  |  | 3 | 6 |
| CEV | ELECTIVE COURSE | | E |  |  |  | 3 | 6 | CEV | ELECTIVE COURSE | E |  |  |  | 3 | 6 |
| CEV | ELECTIVE COURSE | | E |  |  |  | 3 | 6 | CEV | ELECTIVE COURSE | E |  |  |  | 3 | 6 |
| CEV | ELECTIVE COURSE | | E |  |  |  | 3 | 6 | CEV | ELECTIVE COURSE | E |  |  |  | 3 | 6 |
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| **Total Credits /ECTS** | | | | | | | **15** | **30** | **Total Credits/ECTS** | | | | | | **15** | **30** |
| **STAGE THESIS** | **III. TERM / FALL** | | | | | | | | | **IV. TERM / SPRING (\*)** | | | | | | | |
| CEV5001 | SEMESTER PROJECT | | C | 0 | 2 | 0 | 0 | 30 |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total Credits/ECTS** | | | | | | | **0** | **30** | **Total Credits/ECTS** | | | | | |  |  |
| **TOTAL CREDITS: 30 - TOTAL ECTS: 90** | | | | | | | | | | | | | | | | | |

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|  | **BURSA ULUDAĞ UNIVERSITY**  **INSTITUTE OF SCIENCE**  **2025-2026 ACADEMIC YEAR COURSE PLAN** | **FR 1.1.1\_02** |

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| **DEPARTMENT OF** | | | ENVIRONMENTAL ENGINEERING | | | | | | | | | | | | | | |
| **DEPARTMENT / PROGRAM** | | | / Master's Degree Program (WithoutThesis ) | | | | | | | | | | | | | | |
| **COURSE STAGE** | **I.III TERM / FALL** | | | | | | | | | **II. TERM / SPRING** | | | | | | | |
| **Code** | **Course Title** | | **Type** | **T** | **U** | **L** | **Credit** | **ECTS** | **Code** | **Course Title** | **Type** | **T** | **U** | **L** | **Credit** | **ECTS** |
| CEV5257 | ENVIRONMENTAL SAFETY FOR INDUSTRIES | | E | 3 | 0 | 0 | 3 | 6 | CEV5240 | BASIC PROCESSES IN ENVIRONMENTAL ENGINEERING II | E | 3 | 0 | 0 | 3 | 6 |
| CEV5259 | BASIC PROCESSES IN ENVIRONMENTAL ENGINEERING I | | E | 3 | 0 | 0 | 3 | 6 | CEV5248 | ENVIRONMENTAL POLLUTION AND PUBLIC HEALTH | E | 3 | 0 | 0 | 3 | 6 |
| CEV5263 | RENEWABLE ENERGY AND ENVIRONMENT | | E | 3 | 0 | 0 | 3 | 6 | CEV5262 | ENVIRONMENTAL BIOTECHNOLOGY | E | 3 | 0 | 0 | 3 | 6 |
| CEV5277 | WASTE DISPOSAL AND LEGAL FRAMEWORK | | E | 3 | 0 | 0 | 3 | 6 | CEV5320 | WASTEWATER TREATMENT TECHNOLOGIES | E | 3 | 0 | 0 | 3 | 6 |
| CEV5309 | PRINCIPLES OF ENVIRONMENTAL POLLUTION | | E | 3 | 0 | 0 | 3 | 6 | CEV5322 | LANDFILL TECHNOLOGIES | E | 3 | 0 | 0 | 3 | 6 |
| CEV5317 | PROFESSIONAL FOREIGN LANGUAGE | | E | 3 | 0 | 0 | 3 | 6 |  |  |  |  |  |  |  |  |

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|  | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILINDA EKLENEN DERSLER** | | | | | | | | | | | **FR 1.1.1\_02** |
| **ANABİLİM/ ANASANAT DALI** | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | |
| **BİLİM/SANAT DALI / PROGRAMI** | | | Yüksek Lisans | | | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Uygulama Esasları\*** | **Gerekçe** | |
| CEV5317 | MESLEKİ YABANCI DİL | | | GÜZ | S | 3 | 0 | 0 | 3 | 6 | 2025-2026 Eğitim-Öğretim Yılından itibaren | Senato Kararı | |
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| **Toplam Kredi/AKTS** | | | | | | | | |  |  |  | | |
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|  | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILINDA EKLENEN DERSLER** | | | | | | | | | | | **FR 1.1.1\_02** |
| **ANABİLİM/ ANASANAT DALI** | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | |
| **BİLİM/SANAT DALI / PROGRAMI** | | | Doktora | | | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Uygulama Esasları\*** | **Gerekçe** | |
| CEV6266 | KİRLETİCİLERİN ÇOKLU ORTAMLARDA TAŞINIMI VE MODELLENMESİ | | | BAHAR | S | 3 | 0 | 0 | 3 | 6 | EK’te verilmiştir. |  | |
| CEV6311 | MESLEKİ YABANCI DİL | | | GÜZ | S | 3 | 0 | 0 | 3 | 6 | 2025-2026 Eğitim-Öğretim Yılından itibaren | Senato Kararı | |
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| **Toplam Kredi/AKTS** | | | | | | | | |  |  |  | | |
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|  | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILINDA EKLENEN DERSLER** | | | | | | | | | | | **FR 1.1.1\_02** |
| **ANABİLİM/ ANASANAT DALI** | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | |
| **BİLİM/SANAT DALI / PROGRAMI** | | | Bütünleşik Doktora | | | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Uygulama Esasları\*** | **Gerekçe** | |
| CEV5317 | MESLEKİ YABANCI DİL | | | GÜZ | S | 3 | 0 | 0 | 3 | 6 | 2025-2026 Eğitim-Öğretim Yılından itibaren | Senato Kararı | |
| CEV6266 | KİRLETİCİLERİN ÇOKLU ORTAMLARDA TAŞINIMI VE MODELLENMESİ | | | BAHAR | S | 3 | 0 | 0 | 3 | 6 | EK’te verilmiştir. |  | |
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| **Toplam Kredi/AKTS** | | | | | | | | |  |  |  | | |
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|  | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILINDA EKLENEN DERSLER** | | | | | | | | | | | **FR 1.1.1\_02** |
| **ANABİLİM/ ANASANAT DALI** | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | |
| **BİLİM/SANAT DALI / PROGRAMI** | | | Tezsiz Yüksek Lisans | | | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Uygulama Esasları\*** | **Gerekçe** | |
| CEV5317 | MESLEKİ YABANCI DİL | | | GÜZ | S | 3 | 0 | 0 | 3 | 6 | 2025-2026 Eğitim-Öğretim Yılından itibaren | Senato Kararı | |
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| **Toplam Kredi/AKTS** | | | | | | | | |  |  |  | | |
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|  | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FENBİİLİMLERİ** **ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI KALDIRILAN/DEĞİŞTİRİLEN DERSLER** | | | | | | | | | | | | | | | | | | | **FR 1.1.1\_02** | |
| **ANABİLİM/ ANASANAT DALI** | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | | | | | | | | | | |
| **BİLİM/SANAT DALI / PROGRAMI** | | | Yüksek Lisans | | | | | | | | | | | | | | | | | | | |
| **2024-2025 Eğitim-Öğretim Yılı Kaldırılan/Değiştirilen Ders**  *(Bir önceki eğitim-öğretim yılı yazılacak)* | | | | | | | | | | | **2025-2026 Eğitim-Öğretim Yılı Eş Değeri**  *(Teklif edilen eğitim-öğretim yılı yazılacak)* | | | | | | | | | **Uygulama Esasları\*** | | **Gerekçe\*\*** |
| **Kodu** | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Kodu** | **Dersin Adı** | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** |
| CEV5301 | KİMYASALLARIN ÇEVRESEL HAREKETİ | | | GÜZ | Z | 3 | 0 | 0 | 3 | 6 | CEV5301 | KİMYASALLARIN ÇEVRESEL HAREKETİ | GÜZ | S | 3 | 0 | 0 | 3 | 6 |  | | Senato Kararı |
| CEV5302 | ÇEVRE MÜHENDİSLERİ İÇİN İSTATİSTİK | | | BAHAR | Z | 3 | 0 | 0 | 3 | 6 | CEV5302 | ÇEVRE MÜHENDİSLERİ İÇİN İSTATİSTİK | BAHAR | S | 3 | 0 | 0 | 3 | 6 |  | | Senato Kararı |
| CEV5304 | İLERİ ÇEVRE MÜHENDİSLİĞİ KİMYASI I | | | BAHAR | Z | 3 | 0 | 0 | 3 | 6 | CEV5304 | İLERİ ÇEVRE MÜHENDİSLİĞİ KİMYASI I | BAHAR | S | 3 | 0 | 0 | 3 | 6 |  | | Senato Kararı |
| **Toplam Kredi/AKTS** | | | | | | | | |  |  | **Toplam Kredi/AKTS** | | | | | | |  |  |  | |  |

**(\*) Uygulama Esasları:**

(1)2025-2026 ‘dan itibaren geçerli olacaktır.

\*\* Gerekçeler tablo ekinde metin olarak da belirtilebilir.

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|  | | | | | | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FENBİİLİMLERİ** **ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI KALDIRILAN/DEĞİŞTİRİLEN DERSLER** | | | | | | | | | | | | | | | | | | | **FR 1.1.1\_02** | |
| **ANABİLİM/ ANASANAT DALI** | | | | | | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | | | | | | | | | | |
| **BİLİM/SANAT DALI / PROGRAMI** | | | | | | | | Doktora | | | | | | | | | | | | | | | | | | | |
| **2024-2025 Eğitim-Öğretim Yılı Kaldırılan/Değiştirilen Ders**  *(Bir önceki eğitim-öğretim yılı yazılacak)* | | | | | | | | | | | | | | | | **2025-2026 Eğitim-Öğretim Yılı Eş Değeri**  *(Teklif edilen eğitim-öğretim yılı yazılacak)* | | | | | | | | | **Uygulama Esasları\*** | | **Gerekçe\*\*** |
| **Kodu** | | | | | | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Kodu** | **Dersin Adı** | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** |
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| **Toplam Kredi/AKTS** | | | | | | | | | | | | | |  |  | **Toplam Kredi/AKTS** | | | | | | |  |  |  | | |
| **(\*) Uygulama Esasları:**  (1)2024-2025 ‘den itibaren geçerli olacaktır.  \*\* Gerekçeler tablo ekinde metin olarak da belirtilebilir. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | | | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FENBİİLİMLERİ** **ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI KALDIRILAN/DEĞİŞTİRİLEN DERSLER** | | | | | | | | | | | | | | | | | | | **FR 1.1.1\_02** | |
| **ANABİLİM/ ANASANAT DALI** | | | | | | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | | | | | | | | | | |
| **BİLİM/SANAT DALI / PROGRAMI** | | | | | | | | Bütünleşik Doktora | | | | | | | | | | | | | | | | | | | |
| **2024-2025 Eğitim-Öğretim Yılı Kaldırılan/Değiştirilen Ders**  *(Bir önceki eğitim-öğretim yılı yazılacak)* | | | | | | | | | | | | | | | | **2025-2026 Eğitim-Öğretim Yılı Eş Değeri**  *(Teklif edilen eğitim-öğretim yılı yazılacak)* | | | | | | | | | **Uygulama Esasları\*** | | **Gerekçe\*\*** |
| **Kodu** | | | | | | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Kodu** | **Dersin Adı** | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** |
| CEV5301 | | | | | | KİMYASALLARIN ÇEVRESEL HAREKETİ | | | GÜZ | Z | 3 | 0 | 0 | 3 | 6 | CEV5301 | KİMYASALLARIN ÇEVRESEL HAREKETİ | GÜZ | S | 3 | 0 | 0 | 3 | 6 |  | | Senato Kararı |
| CEV5302 | | | | | | ÇEVRE MÜHENDİSLERİ İÇİN İSTATİSTİK | | | BAHAR | Z | 3 | 0 | 0 | 3 | 6 | CEV5302 | ÇEVRE MÜHENDİSLERİ İÇİN İSTATİSTİK | BAHAR | S | 3 | 0 | 0 | 3 | 6 |  | | Senato Kararı |
| CEV5304 | | | | | | İLERİ ÇEVRE MÜHENDİSLİĞİ KİMYASI I | | | BAHAR | Z | 3 | 0 | 0 | 3 | 6 | CEV5304 | İLERİ ÇEVRE MÜHENDİSLİĞİ KİMYASI I | BAHAR | S | 3 | 0 | 0 | 3 | 6 |  | | Senato Kararı |
|  | | | | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
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| **Toplam Kredi/AKTS** | | | | | | | | | | | | | |  |  | **Toplam Kredi/AKTS** | | | | | | |  |  |  | | |

**(\*) Uygulama Esasları:**

(1)2025-2026 ‘den itibaren geçerli olacaktır.

\*\* Gerekçeler tablo ekinde metin olarak da belirtilebilir.

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|  | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **FEN BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI ÖNERİLEN DERSLERİN ULUSAL/ULUSLARARASI KARŞILIKLARI** | | | | | | | | | | | | | **FR 1.1.1\_02** |
| **ANABİLİM/ANASANAT DALI** | | | ÇEVRE MÜHENDİSLİĞİ | | | | | | | | | | | | |
| **BİLİM/SANAT DALI / PROGRAMI** | | | Yüksek Lisans | | | | | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Dersin İçeriği** | **Örnek Üniversiteler** | | | |
| **Örnek 1** | **Örnek 2** | **Örnek 3** | |
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| **BİLİM/SANAT DALI / PROGRAMI** | | | Doktora | | | | | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Dersin İçeriği** | **Örnek Üniversiteler** | | | |
| **Örnek 1** | **Örnek 2** | **Örnek 3** | |
| CEV6266 | KİRLETİCİLERİN ÇOKLU ORTAMLARDA TAŞINIMI VE MODELLENMESİ | | | BAHAR | S | 3 | 0 | 0 | 3 | 6 | EK’te verilmiştir. | Kocaeli Üniversitesi | Rice University | University of Oslo | |
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| **BİLİM/SANAT DALI / PROGRAMI** | | | Bütünleşik Doktora | | | | | | | | | | | | |
| **Kodu** | **Dersin Adı** | | | **Yarıyıl** | **Türü** | **T** | **U** | **L** | **Kredi** | **AKTS** | **Dersin İçeriği** | **Örnek Üniversiteler** | | | |
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