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| A blue circle with white text and a star  AI-generated content may be incorrect. | | | **BURSA ULUDAĞ ÜNİVERSİTESİ**  **SAĞLIK BİLİMLERİ ENSTİTÜSÜ**  **2025-2026 EĞİTİM ÖĞRETİM YILI DERS PLANLARI** | | | | | | | | | | | | | **FR 1.1.1\_02** | | | | | | |
| **ANABİLİM DALI** | | | | Translsyonel Tıp Anabilim Dalı | | | | | | | | | | | | | | | | | | |
| **BİLİM/ SANAT DALI / PROGRAMI** | | | | Doktora 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** |
| SAB6001 | BİYOİSTATİSTİK | | | Z | | 2 | 2 | 0 |  | 5 | SAB6002 | BİYOİSTATİSTİK | Z | 2 | | 2 | 0 | |  | | 5 |
| TTIP6191 | TEZ DANIŞMANLIĞI I | | | Z | | 0 | 1 | 0 |  | 1 | TTIP6192 | TEZ DANIŞMANLIĞI II | Z | 0 | | 1 | 0 | |  | | 1 |
| SAB6003 | AKTARILABİLİR BECERİLER | | | Z | | 3 | 0 | 0 |  | 5 | TTIP6172 | SEMİNER | Z | 0 | | 2 | 0 | |  | | 5 |
| TTIP6181 | DOKTORA UZMANLIK ALAN DERSİ I | | | S | | 4 | 0 | 0 |  | 5 | TTIP6182 | DOKTORA UZMANLIK ALAN DERSİ II | S | 4 | | 0 | 0 | |  | | 5 |
| TTIP6001 | TRANSLASYONEL TIBBIN PRENSİPLERİ | | | S | | 3 | 0 | 0 |  | 7 | TTIP6004 | KİŞİYE ÖZGÜ VE FONKSİYONEL TIP | S | 2 | | 0 | 0 | |  | | 5 |
| TTIP6009 | BİYOMEDİKAL 3B BASKILAMA | | | S | | 2 | 0 | 0 |  | 5 | TTIP6006 | FARMAKOGENETİK | S | 2 | | 0 | 0 | |  | | 5 |
| TTIP6011 | UYGULAMALI BİYOİNFORMATİK | | | S | | 1 | 2 | 0 |  | 5 | TTIP6014 | KLİNİĞE YANSIYAN BİLGİSAYAR PROGRAMLAMA | S | 2 | | 0 | 0 | |  | | 5 |
| TTIP6013 | ONKOGENETİK | | | S | | 2 | 0 | 0 |  | 5 | TTIP6016 | AŞI TEKNOLOJİSİ | S | 2 | | 0 | 0 | |  | | 5 |
| TTIP6015 | İLAÇ UYGULAMALARI VE KEŞFİ | | | S | | 2 | 0 | 0 |  | 5 | TTIP6020 | GENOM DÜZENLEME TEKNOLOJİLERİ | S | 2 | | 0 | 0 | |  | | 5 |
| TTIP6017 | MİKROBİYOTA | | | S | | 3 | 0 | 0 |  | 5 | TTIP6022 | TIPTA FONKSİYONEL POLİMERLER | S | 3 | | 0 | 0 | |  | | 6 |
| TTIP6019 | BİYOSENSÖRLER | | | S | | 2 | 0 | 0 |  | 6 | TTIP6024 | BİYOMAKROMOLEKÜLLER ELDESİ VE ANALİZ YÖNTEMLERİ | S | 3 | | 0 | 0 | |  | | 6 |
| TTIP6021 | BİYOMARKIR KEŞFİ | | | S | | 2 | 0 | 0 |  | 5 | TTIP5002 | TRANSLASYONEL TIP İÇİN SİTOLOJİ | S | 3 | | 0 | 0 | |  | | 6 |
| TTIP6025 | İLERİ NANOTIP MALZEMELERİ | | | S | | 3 | 0 | 0 |  | 6 | TTIP5004 | MEDİKAL BİYOİNFORMATİK | S | 3 | | 0 | 0 | |  | | 6 |
| TTIP6027 | İNSANDA DNA OKSİDASYONU VE TAYİN YÖNTEMLERİ | | | S | | 3 | 0 | 0 |  | 6 | TTIP5006 | TEMEL MATEMATİK | S | 2 | | 2 | 0 | |  | | 5 |
| TTIP5003 | BİYOTEKNOLOJİNİN TEMELLERİ VE UYGULAMALARI | | | S | | 2 | 0 | 0 |  | 5 | TTIP5008 | OMİK TEKNOLOJİLERİ VE UYGULAMALARI | S | 3 | | 0 | 0 | |  | | 5 |
| TTIP5005 | BİYOİNFORMATİĞİN TEMELLERİ VE UYGULAMALARI | | | S | | 2 | 0 | 0 |  | 5 | TTIP5010 | DERMATOLOJİDE YAPAY ZEKA VE TELETIP | S | 2 | | 0 | 0 | |  | | 6 |
| TTIP5007 | BİYOMÜHENDİSLİĞİN TEMELLERİ VE UYGULAMALARI | | | S | | 2 | 0 | 0 |  | 5 | TTIP5012 | METABOLİZMADA OKSİDATİF STRES-ANTİOKSİDAN İLİŞKİSİ VE TAYİNİ | S | 3 | | 0 | 0 | |  | | 6 |
| TTIP5009 | BİYOYARARLANIMDA KİMYASAL ANALİZ VE DEĞERLENDİRME | | | S | | 3 | 0 | 0 |  | 6 |  |  |  |  | |  |  | |  | |  |
| **Toplam Kredi/AKTS** | | | | | | | | |  | **30** | **Toplam Kredi/AKTS** | | | | | | | |  | | **30** |
| **TEZ AŞAMASI** | **III. YARIYIL / GÜZ** | | | | | | | | | | | **IV. YARIYIL / BAHAR** | | | | | | | | | | |
| YET6177 | YETERLİK SINAVI | | | Z | | 0 | 0 | 0 |  | 15 | TTIP6184 | DOKTORA UZMANLIK ALAN DERSİ IV | Z | 4 | | 0 | 0 | |  | | 5 |
| TTIP6183 | DOKTORA UZMANLIK ALAN DERSİ III | | | Z | | 4 | 0 | 0 |  | 5 | TTIP6194 | TEZ DANIŞMANLIĞI IV | Z | 0 | | 1 | 0 | |  | | 25 |
| TTIP6193 | TEZ DANIŞMANLIĞI III | | | Z | | 0 | 1 | 0 |  | 10 |  |  |  |  | |  |  | |  | |  |
| **Toplam Kredi/AKTS** | | | | | | | | |  | **30** | **Toplam Kredi/AKTS** | | | | | | | |  | | **30** |
| **V. YARIYIL / GÜZ** | | | | | | | | | | | **VI. YARIYIL / BAHAR** | | | | | | | | | | |
| TTIP6185 | DOKTORA UZMANLIK ALAN DERSİ V | | | Z | | 4 | 0 | 0 |  | 5 | TTIP6186 | DOKTORA UZMANLIK ALAN DERSİ VI | Z | 4 | | 0 | 0 | |  | | 5 |
| TTIP6195 | TEZ DANIŞMANLIĞI V | | | Z | | 0 | 1 | 0 |  | 25 | TTIP6196 | TEZ DANIŞMANLIĞI VI | Z | 0 | | 1 | 0 | |  | | 25 |
| **Toplam Kredi/AKTS** | | | | | | | | |  | **30** | **Toplam Kredi/AKTS** | | | | | | | |  | | **30** |
| **VII. YARIYIL / GÜZ** | | | | | | | | | | | **VIII. YARIYIL / BAHAR** | | | | | | | | | | |
| TTIP6187 | DOKTORA UZMANLIK ALAN DERSİ VII | | | Z | 4 | | 0 | 0 |  | 5 | TTIP6188 | DOKTORA UZMANLIK ALAN DERSİ VIII | Z | 4 | | 0 | 0 |  | | 5 | |
| TTIP6197 | TEZ DANIŞMANLIĞI VII | | | Z | 0 | | 1 | 0 |  | 25 | TTIP6198 | TEZ DANIŞMANLIĞI VIII | Z | 0 | | 1 | 0 |  | | 25 | |
| **Toplam Kredi/AKTS** | | | | | | | | |  | **30** | **Toplam Kredi/AKTS** | | | | | | |  | | **30** | |
| **TOPLAM AKTS: 240** | | | | | | | | | | | | | | | | | | | | | | |
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| A blue circle with white text and a star  AI-generated content may be incorrect. | | | **BURSA ULUDAĞ UNIVERSITY**  **INSTITUTE OF HEALTH SCIENCE**  **2024-2025 ACADEMIC YEAR COURSE PLAN** | | | | | | | | | | | | | | | **FR 1.1.1\_02** | | | | |
| **DEPARTMENT OF** | | | | Translational Medicine | | | | | | | | | | | | | | | | | | |
| **DEPARTMENT / PROGRAM** | | | | PhD 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** | |
| SAB6001 | BIOSTATISTICS | | | C | | 2 | 2 | 0 |  | 5 | SAB6002 | BIOSTATISTICS | C | 2 | 2 | 0 | |  | | 5 | |
| TTIP6191 | THESIS I | | | C | | 0 | 1 | 0 |  | 1 | TTIP6192 | THESIS II | C | 0 | 1 | 0 | |  | | 1 | |
| SAB6003 | TRANSFERABLE SKILLS | | | C | | 3 | 0 | 0 |  | 5 | TTIP6172 | SEMINAR | C | 0 | 2 | 0 | |  | | 5 | |
| TTIP6181 | ADVANCED TOPICS IN PhD THESIS I | | | E | | 4 | 0 | 0 |  | 5 | TTIP6182 | ADVANCED TOPICS IN PhD THESIS II | E | 4 | 0 | 0 | |  | | 5 | |
| TTIP6001 | PRINCIPLES OF TRANSLATIONAL MEDICINE | | | E | | 3 | 0 | 0 |  | 7 | TTIP6004 | PERSONAL AND FUNCTIONAL MEDICINE | E | 2 | 0 | 0 | |  | | 5 | |
| TTIP6009 | BIOMEDICAL 3D PRINTING | | | E | | 2 | 0 | 0 |  | 5 | TTIP6006 | PHARMACOGENETIC | E | 2 | 0 | 0 | |  | | 5 | |
| TTIP6011 | APPLIED BIOINFORMATICS | | | E | | 1 | 2 | 0 |  | 5 | TTIP6014 | CLINICAL REFLECTED COMPUTER PROGRAMMING | E | 2 | 0 | 0 | |  | | 5 | |
| TTIP6013 | ONCOGENETICS | | | E | | 2 | 0 | 0 |  | 5 | TTIP6016 | VACCINE TECHNOLOGY | E | 2 | 0 | 0 | |  | | 5 | |
| TTIP6015 | DRUG APPLICATIONS AND DISCOVERY | | | E | | 2 | 0 | 0 |  | 5 | TTIP6020 | GENOME EDITING TECHNOLOGIES | E | 2 | 0 | 0 | |  | | 5 | |
| TTIP6017 | MICROBIOTA | | | E | | 3 | 0 | 0 |  | 5 | TTIP6022 | FUNCTIONAL POLYMERS IN MEDICINE | E | 3 | 0 | 0 | |  | | 6 | |
| TTIP6019 | BIOSENSORS | | | E | | 2 | 0 | 0 |  | 5 | TTIP6024 | METHODS OF OBTAINING AND ANALYSIS OF BIOMACROMOLECULES | E | 3 | 0 | 0 | |  | | 6 | |
| TTIP6021 | BIOMARKIR DISCOVERY | | | E | | 2 | 0 | 0 |  | 5 | TTIP5002 | CYTOLOGY FOR TRANSLATIONAL MEDICINE | E | 3 | 0 | 0 | |  | | 6 | |
| TTIP6025 | ADVANCED NANOMEDICINE MATERIALS | | | E | | 3 | 0 | 0 |  | 6 | TTIP5004 | MEDICAL BIOINFORMATICS | E | 3 | 0 | 0 | |  | | 6 | |
| TTIP6027 | DNA OXIDATION AND DETERMINATION METHODS IN HUMAN | | | E | | 3 | 0 | 0 |  | 6 | TTIP5006 | BASIC MATHEMATICS | E | 2 | 2 | 0 | |  | | 5 | |
| TTIP5005 | FUNDAMENTALS AND APPLICATIONS OF BIOINFORMATICS | | | E | | 2 | 0 | 0 |  | 5 | TTIP5008 | OMIC TECHNOLOGIES AND APPLICATIONS | E | 3 | 0 | 0 | |  | | 5 | |
| TTIP5007 | FUNDAMENTALS AND APPLICATIONS OF BIOENGINEERING | | | E | | 2 | 0 | 0 |  | 5 | TTIP5010 | ARTIFICIAL INTELLIGENCE AND TELEMEDICINE IN DERMATOLOGY | E | 2 | 0 | 0 | |  | | 6 | |
| TTIP5009 | CHEMICAL ANALYSIS AND EVALUATION IN BIOAVAILABILITY | | | E | | 3 | 0 | 0 |  | 6 | TTIP5012 | RELATIONSHIP AND DETERMINATION OF OXIDATIVE STRESS-ANTIOXIDANT IN METABOLISM | E | 3 | 0 | 0 | |  | | 6 | |
| TTIP5003 | FUNDAMENTALS AND APPLICATIONS OF BIOTECHNOLOGY | | | E | | 2 | 0 | 0 |  | 5 |  |  |  |  |  |  | |  | |  | |
| **Total Credits/ECTS** | | | | | | | | |  | **30** | **Total Credits/ECTS** | | | | | | |  | | **30** | |
| **STAGE THESIS** | **III. TERM / FALL** | | | | | | | | | | | **IV. TERM / SPRING** | | | | | | | | | | |
| YET6177 | PROFICIENCY TEST | | | C | | 0 | 0 | 0 |  | 15 | TTIP6184 | ADVANCED TOPICS IN PhD THESIS IV | C | 4 | 0 | 0 | |  | | 5 | |
| TTIP6183 | ADVANCED TOPICS IN PhD THESIS III | | | C | | 4 | 0 | 0 |  | 5 | TTIP6194 | THESIS IV | C | 0 | 1 | 0 | |  | | 25 | |
| TTIP6193 | THESIS III | | | C | | 0 | 1 | 0 |  | 10 |  |  |  |  |  |  | |  | |  | |
| **Total Credits/ECTS** | | | | | | | | |  | **30** | **Total Credits/ECTS** | | | | | | |  | | **30** | |
| **V. TERM / FALL** | | | | | | | | | | | **VI. TERM / SPRING** | | | | | | | | | | |
| TTIP6185 | ADVANCED TOPICS IN PhD THESIS V | | | C | | 4 | 0 | 0 |  | 5 | TTIP6186 | ADVANCED TOPICS IN PhD THESIS VI | C | 4 | 0 | 0 | |  | | 5 | |
| TTIP6195 | THESIS V | | | C | | 0 | 1 | 0 |  | 25 | TTIP6196 | THESIS VI | C | 0 | 1 | 0 | |  | | 25 | |
| **Total Credits/ECTS** | | | | | | | | |  | **30** | **Total Credits/ECTS** | | | | | | |  | | **30** | |
| **VII. TERM / FALL** | | | | | | | | | | | **VIII. TERM / SPRING** | | | | | | | | | | |
| TTIP6187 | ADVANCED TOPICS IN PhD THESIS VII | | | C | 4 | | 0 | 0 |  | 5 | TTIP6188 | ADVANCED TOPICS IN PhD THESIS VIII | C | 4 | 0 | 0 | |  | | 5 | |
| TTIP6197 | THESIS VII | | | C | 0 | | 1 | 0 |  | 25 | TTIP6198 | THESIS VIII | C | 0 | 1 | 0 | |  | | 25 | |
| **Total Credits/ECTS** | | | | | | | | |  | **30** | **Total Credits/ECTS** | | | | | | | |  | | **30** |
| **TOTAL ECTS: 240** | | | | | | | | | | | | | | | | | | | | | | |