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| A logo with text and a star  Description automatically generated | **BURSA ULUDAĞ ÜNİVERSİTESİ****SAĞLIK BİLİMLERİ** **ENSTİTÜSÜ****2025-2026** **EĞİTİM ÖĞRETİM YILI DERS PLANLARI**  | **FR 1.1.1\_02** |
| **ANABİLİM DALI** | Translasyonel Tıp Anabilim Dalı |
| **BİLİM/ SANAT DALI / PROGRAMI** | Bütünleşik 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** |
| SAB5001 | BİYOİSTATİSTİK  | Z | 2 | 2 | 0 |  | 5 | SAB5002 | BİYOİSTATİSTİK | Z | 2 | 2 | 0 |  | 5 |
| TTIP6191 | TEZ DANIŞMANLIĞI I | Z | 0 | 1 | 0 |  | 1 | TTIP6192 | TEZ DANIŞMANLIĞI II | Z | 0 | 1 | 0 |  | 1 |
| TAN5001 | TERMİNOLOJİ | Z | 2 | 0 | 0 |  | 4 | TTIP5172 | SEMİNER  | Z | 0 | 2 | 0 |  | 5 |
| TAN5003 | İNSAN ANATOMİSİNE GİRİŞ | Z | 2 | 2 | 0 |  | 6 | TTIP5002 | TRANSLASYONEL TIP İÇİN SİTOLOJİ | Z | 3 | 0 | 0 |  | 6 |
| TTIP6181 | DOKTORA UZMANLIK ALAN DERSİ I | S | 4 | 0 | 0 |  | 5 | TTIP6182 | DOKTORA UZMANLIK ALAN DERSİ II | S | 4 | 0 | 0 |  | 5 |
| TTIP5003 | BİYOTEKNOLOJİNİN TEMELLERİ VE UYGULAMALARI | S | 2 | 0 | 0 |  | 5 | TTIP5004 | MEDİKAL BİYOİNFORMATİK | S | 3 | 0 | 0 |  | 6 |
| TTIP5005 | BİYOİNFORMATİĞİN TEMELLERİ VE UYGULAMALARI | S | 2 | 0 | 0 |  | 5 | TTIP5006 | TEMEL MATEMATİK | S | 2 | 2 | 0 |  | 5 |
| TTIP5007 | BİYOMÜHENDİSLİĞİN TEMELLERİ VE UYGULAMALARI | S | 2 | 0 | 0 |  | 5 | TTIP5008 | OMİK TEKNOLOJİLERİ VE UYGULAMALARI | S | 3 | 0 | 0 |  | 5 |
| TTIP5009 | BİYOYARARLANIMDA KİMYASAL ANALİZ VE DEĞERLENDİRME  | S | 3 | 0 | 0 |  | 6 | TTIP5010 | DERMATOLOJİDE YAPAY ZEKA VE TELETIP | S | 2 | 0 | 0 |  | 6 |
|  |  |  |  |  |  |  |  | TTIP5012 | METABOLİZMADA OKSİDATİF STRES-ANTİOKSİDAN İLİŞKİSİ VE TAYİNİ | S | 3 | 0 | 0 |  | 6 |
| **Toplam Kredi/AKTS** |  | **30** | **Toplam Kredi/AKTS** |  | **30** |
| **TEZ AŞAMASI** | **III. YARIYIL / GÜZ** | **IV. YARIYIL / BAHAR** |
| TTIP6193 | TEZ DANIŞMANLIĞI III | Z | 0 | 1 | 0 |  | 1 | TTIP6194 | TEZ DANIŞMANLIĞI IV | Z | 0 | 1 | 0 |  | 1 |
| SAB6003 | AKTARILABİLİR BECERİLER  | Z | 3 | 0 | 0 |  | 5 | TTIP6172 | SEMİNER | Z | 0 | 2 | 0 |  | 5 |
| TTIP6183 | DOKTORA UZMANLIK ALAN DERSİ III | S | 4 | 0 | 0 |  | 5 | TTIP6184 | DOKTORA UZMANLIK ALAN DERSİ IV | 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 |  | 5 | TTIP6024 | BİYOMAKROMOLEKÜLLER ELDESİ VE ANALİZ YÖNTEMLERİ | S | 3 | 0 | 0 |  | 6 |
| TTIP6021 | BİYOMARKIR KEŞFİ | S | 2 | 0 | 0 |  | 5 |  |  |  |  |  |  |  |  |
| TTIP6025 | İLERİ NANOTIP MALZEMELERİ | S | 3 | 0 | 0 |  | 6 |  |  |  |  |  |  |  |  |
| TTIP6027 | İNSANDA DNA OKSİDASYONU VE TAYİN YÖNTEMLERİ | S | 3 | 0 | 0 |  | 6 |  |  |  |  |  |  |  |  |
| **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 |  | 10 | TTIP6196 | TEZ DANIŞMANLIĞI VI | Z | 0 | 1 | 0 |  | 25 |
| YET6177 | YETERLİK SINAVI | Z | 0 | 0 | 0 |  | 15 |  |  |  |  |  |  |  |  |
| **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** |
|  | **IX. YARIYIL / GÜZ** | **X. YARIYIL / BAHAR** |
|  | TTIP6189 | DOKTORA UZMANLIK ALAN DERSİ IX | Z | 4 | 0 | 0 |  | 5 | TTIP6190 | DOKTORA UZMANLIK ALAN DERSİ X | Z | 4 | 0 | 0 |  | 5 |
|  | TTIP6199 | TEZ DANIŞMANLIĞI XI | Z | 0 | 1 | 0 |  | 25 | TTIP6200 | TEZ DANIŞMANLIĞI X | Z | 0 | 1 | 0 |  | 25 |
|  | **Toplam Kredi/AKTS** |  | **30** | **Toplam Kredi/AKTS** |  | **30** |
| **TOPLAM AKTS: 300** |

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| A logo with text and a star  AI-generated content may be incorrect. | **BURSA ULUDAG UNIVERSITY** **INSTITUTE OF HEALTH SCIENCE****2024-2025** **ACADEMIC YEAR COURSE PLAN** | **FR 1.1.1\_02** |
|  **DEPARTMENT OF** | Translational Medicine |
|  **DEPARTMENT / PROGRAM** | Integrated PhD Program |
|  | **I. TERM / FALL** | **II. TERM / SPRING** |
| **Code** | **Course Title** | **Type**  | **T** | **U** | **L** | **Credit** | **ECTS** | **Code** | **Course Title** | **Type**  | **T** | **U** | **L** | **Credit** | **ECTS** |
| SAB5001 | BIOSTATISTICS | C | 2 | 2 | 0 |  | 5 | SAB5002 | BIOSTATISTICS | C | 2 | 2 | 0 |  | 5 |
| TTIP5191 | THESIS I | C | 0 | 1 | 0 |  | 1 | TTIP5192 | THESIS II | C | 0 | 1 | 0 |  | 1 |
| TAN5001 | TERMINOLOGIA | C | 2 | 0 | 0 |  | 4 | TTIP5172 | SEMINAR  | C | 0 | 2 | 0 |  | 5 |
| TAN5003 | INTRODUCTION TO HUMAN ANATOMY | C | 2 | 2 | 0 |  | 6 | TTIP5002 | CYTOLOGY FOR TRANSLATIONAL MEDICINE | C | 3 | 0 | 0 |  | 6 |
| TTIP5181 | ADVANCED TOPICS IN PHD THESIS I | E | 4 | 0 | 0 |  | 5 | TTIP5182 | ADVANCED TOPICS IN PHD THESIS II | E | 4 | 0 | 0 |  | 5 |
| TTIP5003 | FUNDAMENTALS AND APPLICATIONS OF BIOTECHNOLOGY | E | 2 | 0 | 0 |  | 5 | TTIP5004 | MEDICAL BIOINFORMATICS | E | 3 | 0 | 0 |  | 6 |
| TTIP5005 | FUNDAMENTALS AND APPLICATIONS OF BIOINFORMATICS | E | 2 | 0 | 0 |  | 5 | TTIP5006 | BASIC MATHEMATICS | E | 2 | 2 | 0 |  | 5 |
| TTIP5007 | FUNDAMENTALS AND APPLICATIONS OF BIOENGINEERING | E | 2 | 0 | 0 |  | 5 | TTIP5008 | OMIC TECHNOLOGIES AND APPLICATIONS | E | 3 | 0 | 0 |  | 5 |
| TTIP5009 | CHEMICAL ANALYSIS AND EVALUATION IN BIOAVAILABILITY | E | 3 | 0 | 0 |  | 6 | TTIP5010 | ARTIFICIAL INTELLIGENCE AND TELEMEDICINE IN DERMATOLOGY | E | 2 | 0 | 0 |  | 6 |
|  |  |  |  |  |  |  |  | TTIP5012 | RELATIONSHIP AND DETERMINATION OF OXIDATIVE STRESS-ANTIOXIDANT IN METABOLISM | E | 3 | 0 | 0 |  | 6 |
| **Total Credits/ECTS** |  | **30** | **Total Credits/ECTS** |  | **30** |
| **III. TERM / FALL** | **IV. TERM / SPRING** |
| TTIP6193 | THESIS III | C | 0 | 1 | 0 |  | 1 | TTIP6194 | THESIS IV | C | 0 | 1 | 0 |  | 1 |
| SAB6003 | TRANSFERABLE SKILLS | C | 3 | 0 | 0 |  | 5 | TTIP6172 | SEMINAR | C | 0 | 2 | 0 |  | 5 |
| TTIP6183 | ADVANCED TOPICS IN PhD THESIS III | E | 4 | 0 | 0 |  | 5 | TTIP6184 | ADVANCED TOPICS IN PhD THESIS IV | 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 | BIOMARKER DISCOVERY | E | 2 | 0 | 0 |  | 5 |  |  |  |  |  |  |  |  |
| TTIP6025 | ADVANCED NANOMEDICINE MATERIALS | E | 3 | 0 | 0 |  | 6 |  |  |  |  |  |  |  |  |
| TTIP6027 | DNA OXIDATION AND DETERMINATION METHODS IN HUMAN | E | 3 | 0 | 0 |  | 6 |  |  |  |  |  |  |  |  |
| **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 |  | 10 | TTIP6196 | THESIS VI | C | 0 | 1 | 0 |  | 25 |
| YET6177 | PROFICIENCY TEST | C | 0 | 0 | 0 |  | 15 |  |  |  |  |  |  |  |  |
| **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** |
| **IX. TERM / FALL** | **X. TERM / SPRING** |
| TTIP6189 | ADVANCED TOPICS IN PHD THESIS IX | C | 4 | 0 | 0 |  | 5 | TTIP6190 | ADVANCED TOPICS IN PHD THESIS X | C | 4 | 0 | 0 |  | 5 |
| TTIP6199 | THESIS IX | C | 0 | 1 | 0 |  | 25 | TTIP6200 | THESIS X | C | 0 | 1 | 0 |  | 25 |
| **Total Credits/ECTS** |  | **30** | **Total Credits/ECTS** |  | **30** |
| **TOTAL ECTS: 300** |

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