**Bioinformatics**

**TRIMESTER WISE DISTRIBUTION OF COURSES**

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| **Course Code** | **Course Name** | **Credit-L** | **Credit-P** |
| **I-TRIMESTER** |
| **BI501-2018** | **INTRODUCTION TO BIOINFORMATICS** | **2** | **1** |
| **BI505-2018** | **PRINCIPLES OF COMPUTER PROGRAMMING** | **2** | **1** |
| **BI509-2018** | **NUCLEIC ACIDS** | **2** | **1** |
| **BI510-2018** | **PRINCIPLES OF BIOTECHNOLOGY** | **4** | **0** |
| **BI511-2018** | **BASIC BIOCHEMISTRY** | **4** | **1** |
| **BI512-2018** | **ADVANCED PROGRAMMING IN BIOINFORMATICS** | **2** | **2** |
| **BI514-2018** | **STATISTICAL TECHNIQUES IN BIOINFORMATICS** | **3** | **1** |
| **BI601-2018** | **GENOME ASSEMBLY AND ANNOTATION** | **1** | **2** |
| **BI602-2018** | **BIOMOLECULAR MODELLING AND SIMULATION** | **2** | **1** |
| **BI611-2018** | **METAGENOMICS DATA ANALYSIS** | **2** | **1** |
| **BI613-2018** | **PARALLEL PROGRAMMING AND ALGORITHM DEVELOPMENT** | **2** | **1** |
| **BI614-2018** | **BIOLOGICAL NETWORK MODELLING AND ANALYSIS** | **2** | **1** |
| **BI622-2018** | **MOLECULAR DYNAMICS** | **2** | **1** |
| **BI691-2018** | **SEMINAR** | **1** | **0** |
| **II-TRIMESTER** |
| **BI506-2018** | **COMPUTATIONAL GENOMICS** | **3** | **1** |
| **BI507-2018** | **DATABASE MANAGEMENT SYSTEM** | **2** | **2** |
| **BI508-2018** | **COMPUTER APPLICATIONS IN BIOINFORMATICS** | **2** | **1** |
| **BI513-2018** | **PRINCIPLES ELEMENTS OF GENETICS** | **3** | **2** |
| **BI603-2018** | **MACHINE LEARNING TECHNIQUES IN BIOINFORMATICS** | **2** | **1** |
| **BI604-2018** | **COMPUTATIONAL TECHNIQUES OF TRANSCRIPTOMICS AND METABOLOMICS** | **1** | **1** |
| **BI623-2018** | **PEPTIDE DESIGN, SYNTHESIS AND APPLICATIONS** | **2** | **1** |
| **BI624-2018** | **GENOME WIDE ASSOCIATION STUDY** | **2** | **1** |
| **BI632-2018** | **OPTIMIZATION TECHNIQUES IN BIOINFORMATICS** | **2** | **1** |
| **BI691-2018** | **SEMINAR** | **1** | **0** |
| **III-TRIMESTER** |
| **BI502-2018** | **PROTEIN STRUCTURE ANALYSIS** | **2** | **1** |
| **BI503-2018** | **COMPUTATIONAL BIOLOGY** | **2** | **1** |
| **BI504-2018** | **EVOLUTIONARY BIOLOGY** | **2** | **1** |
| **BI612-2018** | **Quantum Theory and Applications in Biology** | **2** | **1** |
| **BI633-2018** | **BIOLOGICAL DATA INTEGRATION AND QUALITY CONTROL** | **2** | **1** |
| **BI643-2018** | **Graphics and Visualization of Biological Data** | **2** | **1** |
| **BI691-2018** | **SEMINAR** | **1** | **0** |