

ACADEMIC PLAN FOR THE DEPARTMENT OF MICROBIOLOGY

SESSION:2017-18 (ACADEMIC YEAR)

| Year | PAPER | UNIT | TEACHER | | No. of class hours allotted per week (as per class routine) | | Total no. of class hours required in the session (Approx.) | | Duration (in month) | Remark (if any) | | | |
|---|---|--|---------------------|--------------------|---|--------------------|--|--------------------|---------------------|-----------------|---|--|--|
| | | | Theory | Practical/Tutorial | Theory | Practical/Tutorial | Theory | Practical/Tutorial | | | | | |
| PART-II 2nd Year (UG) | Paper III Group A (Theory): Cellular and Molecular Biology | Unit I: 1. DNA Replication | Mr. Subhankar Barua | | 1 | | 70 | ----- | 8 | | | | |
| | | Unit I: 2. Transcription in prokaryotes | Dr. Gargi Saha Kesh | | 1 | | | | | | | | |
| | | Unit I: 3. Mechanism of translation in prokaryotes | Dr. Arun Roy | ----- | 1 | ----- | | | | | | | |
| | | Unit II: 1. Eukaryotic cell biology | Dr. Saswati Gayen | | 2 | | | | | | | | |
| | Paper III Group B (Theory): Metabolism and Bioenergetics | Unit I: 1. Enzymes | Dr. Arpita Das | | 2 | | 70 | ----- | 8 | | | | |
| | | Unit I: 2. Amino acid metabolism | Dr. Sampa Debnath | ----- | 3 | ----- | | | | | | | |
| | | Unit II 1. Carbohydrate metabolism | | | | | | | | | | | |
| | | Unit II:2. Purine and Pyrimidine metabolism | | | | | | | | | | | |
| | Unit II: 3. Lipid metabolism | | | | | | | | | | | | |
| | Paper IV Group A (Theory): Environmental and Food Microbiology | Unit I: 1. Air Microbiology | Miss Sahana Ghosh | | 1 | | 80 | ----- | 8 | | | | |
| | | Unit I: 2. Water Microbiology | Dr. Prasenjit Das | | 1 | | | | | | | | |
| | | Unit I: 3. Food Microbiology | Dr. Shilajit Barua | ----- | 1 | ----- | | | | | | | |
| | | Unit I: 4. Preservation of food | | | | | | | | | | | |
| | | Unit I: 5. Microbiologically Fermented food | | | | | | | | | | | |
| | | Unit II: 1. Soil Microbiology | Dr. Saswati Gayen | | | | | | | | 2 | | |
| | Unit II: 2. Biogeochemical cycles | | | | | | | | | | | | |
| | Paper IV Group B (Practical) | Unit I: 1. Enumeration of microbes | ----- | | | | Dr. Prasenjit Das | ----- | 4 | | | | |
| | | Unit I: 2. Growth curve | | | | | | | | | | | |
| | | Unit I: 3. Assay of antibiotics | | | | | | | | | | | |
| | | Unit I: 4. MIC | | | | | | | | | | | |
| Unit II: 1. Water microbiology | | | | | | | | | | | | | |
| Unit II: 2. Milk microbiology | | | | | | | | | | | | | |
| Unit II: 3. Phenol coefficient | | | | | | | | | | | | | |