



B.Sc Microbiology with AI

Course Curriculum and Syllabus

Semester V

| Sl. No. | Course Code | Course Title | Contact Hrs./ Week | | | Credit | Page No. |
|---------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----|----|--------|----------|
| | | | L | T | P | | |
| Theory | | | | | | | |
| 1 | TIU-HMB-T301 | Food and Dairy Microbiology | 03 | 01 | 00 | 04 | |
| 2 | TIU-HMB-T303 | INDUSTRIALMICROBIOLOGY | 03 | 01 | 00 | 04 | |
| 3 | TIU-DSE-T301 | BIOMATHEMATICS ANDBIOSTATISTICS | 02 | 02 | 00 | 04 | |
| 4 | TIU-DSE-T303 | MEDICAL& DIAGNOSTIC MICROBIOLOGY | 02 | 02 | 00 | 04 | |
| 5 | TIU-DSE-T305 | ADVANCESIN MICROBIOLOGY | 02 | 02 | 00 | 04 | |
| 6 | | CAREER ADVANCEMENT - SKILL DEVELOPMENT: STUDY OF AI-BASED COMPUTATIONAL METHODS FOR ANALYZING LARGE-SCALE MICROBIAL DATASETS, INCLUDING OMICS DATA INTEGRATION AND PREDICTIVE MODELING | 02 | 00 | 00 | 02 | |
| Practical | | | | | | | |
| 1 | TIU-HMB-L301 | Food and Dairy Microbiology | 00 | 00 | 02 | 02 | |
| 2 | TIU-HMB-L303 | INDUSTRIALMICROBIOLOGY | 00 | 00 | 02 | 02 | |
| 3 | TIU-DSE-L301 | BIOMATHEMATICS ANDBIOSTATISTICS | 00 | 00 | 02 | 02 | |
| 4 | TIU-DSE-L303 | MEDICAL& DIAGNOSTIC MICROBIOLOGY | 00 | 00 | 02 | 02 | |
| 5 | TIU-DSE-L305 | ADVANCESIN MICROBIOLOGY | 00 | 00 | 02 | 02 | |
| Total Credit | | | | | | 26 | |