

Course Title : Basic Microbiology Laboratory Practices

Nature of Course: Certificate Course

Course Syllabus

Course Objectives:

1. To cater the needs of students for building up their careers in industry & research
2. To enrich student's knowledge and train them in core Microbiology.
3. To inculcate sense of scientific responsibilities and social and environment awareness
4. To help students build-up a progressive and successful career.

Learning outcome:

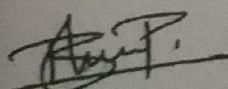
1. The major outcome is the understanding of basic principles and applied aspects of Microbiology and basic techniques of handling of Microbiology.
2. Theory supplemented with extensive laboratory expertise will help to work directly in applied fields (industry or institutions), without any additional training.
3. The trained and skilled man-power.

Credit :02

| Sr no | Content | Lectures |
|-------|--|----------|
| 1 | Principle and working of : Autoclave, Hot Air Oven, Laminar Air Flow, Colorimeter, Micropipette, pH meter | 2 |
| 2 | Stains : Types and Preparation | 2 |
| 3 | Maintenance of Microbiology laboratory: Fumigation, cleaning of glassware, wrapping of glassware and making cotton plugs | 3 |
| 4 | Types and uses of media | 2 |
| 5 | Working of Microscope | 1 |
| 6 | Molar and normal solutions | 2 |

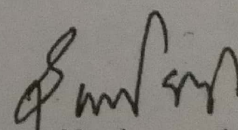
| Sr no | Content | Practical |
|-------|---|-----------|
| 1 | Sterilization of media and glassware | 1 |
| 2 | Handling of pH meter, incubator, water bath and colorimeter | 1 |
| 3 | Handling of micropipette and Laminar air flow | 1 |
| 4 | Preparation of stains and reagent | 1 |
| 5 | Preparation of media and slants | 1 |

Mode of Evaluation: Written Examination


Course

Coordinator




Head

Dept. of Microbiology