

ANALYTICAL TECHNIQUES IN MICROBIOLOGY

About AES Laboratories

Established in 1983, AES Laboratories is an NABL accredited laboratory in the fields of chemical, biological and mechanical testing.. The laboratory is recognized by various government and private organizations and are providing analytical services to these sectors in the fields of food, environment, petroleum, construction materials and microbiology and various other chemical testing. The laboratory has extensive modern infrastructure with latest technology in laboratory instrumentation along with a well qualified team of laboratory professionals. The laboratory regularly offers training programs designed to meet the needs of all levels of students or professionals related to the field of laboratory analysis. The laboratory is also acting as a study centre for IGNOU for the course on Post-Graduate Diploma in Food Safety and Quality Management (PGDFSQM) .

Course Objective

By attending the course, staff new to microbiology undertake a wide range of microbiological procedures essential to the assurance of food safety. They will acquire the skills to perform routine tests from practical exercises undertaken within AES Lab's fully equipped laboratories guided by highly skilled staff. A series of lectures, together with practical demonstrations and hands on work, will ensure that delegates are exposed to essentials of working in a microbiology laboratory gaining a greater understanding of laboratory techniques and practices.

Who should attend

All those who are interested in pursuing a laboratory career or a career in environment sciences, food sciences, biotechnology etc., college students pursuing a degree in environmental sciences or environmental chemistry or industrial chemistry, food sciences, food chemistry, biotechnology or microbiology. Laboratory technicians interested to enhance their career in the field of water & wastewater analysis. The course is also beneficial to staff who need an appreciation of how microbiology testing is done at a basic level and staff returning to the laboratory environment requiring a 'refresher'. This course also acts as a precursor to the other field specific microbiological courses such as Food Microbiology and Water Microbiology. The basic qualification for attending this course is a graduate in science with biology as one of the subjects.



Course Contents

- Microorganisms - types, diversity and key factors for their control: an introduction
- Maintaining sterility in Microbiological testing
- Basics on Isolation and enumeration of microorganisms from samples
- Inhibition and destruction of microorganisms
- Equipment in the laboratory - maintenance and correct use
- Hands on work
 - *media preparation*
 - *sample preparation*
 - *isolation & identification of microorganisms*
 - *enumeration of microorganisms*

For more information regarding this training program, please contact:



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