

Department of Applied Science and Humanities

Invertis University, Bareilly

CIRCULAR

Value Added Course (Advanced Techniques in Clinical Microbiology)

Students of MSc. (Chem.) BSc. (H) Chem. & BSc. (ZBC) are hereby informed that the Value Added Course (VAC) is scheduled from 16-10-18 in your respective classrooms at Academic Block – 1.

Schedule:

- Time Slot: 3 pm – 5 pm
- Key Speaker: Dr. Satendra Singh
- Duration: 2 hours

Program Overview

The entire objective of this VAC is to develop an orientation regarding specialized course and setting up a comprehensive capacity for building the professional mechanism. The course is committed to produce highly professional human resource by providing them requisite training and education. The idea has been largely to provide perceptive thinking about the dynamics of the discipline for the students willing to join the industry. The curriculum has been carefully crafted to make the technical, theoretical and practical ends meet. With the testimonies and feedback the program developers have been able to evolve a new breed of professionals and set up new benchmarks for achieving newer heights in content development and course delivery.

Dr. Kamlesh Kumar Dubey

(Head of the Department)

Department of Applied Science and Humanities

Invertis University, Bareilly



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Faculty of Science
Invertis University, Bareilly (U.P.)



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INVERTIS UNIVERSITY

DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES

VALUE ADDED COURSE: Advanced Techniques in Clinical Microbiology

Course Code: ASH03

Hours: 60

Course Objectives:

- 1) To learn the basic and advanced techniques in clinical Laboratory.
- 2) To take up additional skill to handle clinical samples for microbiological analysis.

Course Outline:

Unit 1:

- **Laboratory Safety: Organization of laboratory and safety Precautions in clinical laboratory**
- **Personal hygiene and care**
- **General health care**
- **Vaccination Schedule for technicians**
- **Laboratory care and cautions – Do's and Don't's – lab accidents**
- **Cuts and wounds**
- **Fire Accidents**

Unit 2:

- **Clinical Sample Analysis: Sample collection, processing, preservation and transportation of samples Microscopic Analysis**
- **Microscopic analysis of clinical specimens – Urine, Stool, sputum, Pus, Blood, CSF and other body fluids.**
- **Culture methods: Culturing and isolation of pathogens from Clinical specimens.**
- **Culture media**
- **General purpose media**
- **Special media**
- **Selective media**
- **Differential**
- **Media – transport media.**

Unit 3:

- **Advanced Techniques & Automation: ELISA – PCR**
- **Fluorescence Microscopy**
- **Automated culture systems**



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- Automated Blood culture
- Automated Urine culture – Automated
- Antibiotic Sensitivity testing

Course Outcomes:

After the completion of the course the students will be able to

- 1) Understand laboratory safety methods.
- 2) Skilled in handling clinical specimens for microbiological analysis
- 3) Gain knowledge about automated techniques in Clinical microbiological techniques.



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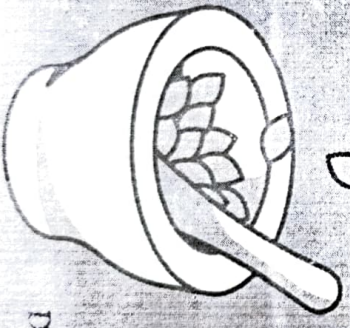
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VALUE ADDED COURSE
ADVANCED TECHNIQUES IN
CLINICAL MICROBIOLOGY

Programme (B.Sc.H) Home Science, Chhatrapati B.S.C.
Institute of Health Sciences, Bareilly
Date: 06/09/2019, 05:00 PM
On: 06/09/2019, 05:00 PM
In: 06/09/2019, 05:00 PM
Course Coordinator: Dr. Sushendra Singh



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hundreds of millions of people, mostly in developing countries, derive a significant part of their subsistence needs and income from gathered plant and animal products. Gathering of high value products such as mushrooms (morels, matsutake, truffles), medicinal plants (ginseng, black cohosh, goldenseal) also continues in developed countries for cultural and economic reasons. Among these use medicinal plants play a central role, not only as traditional medicines

in many cultures, but also as trade commodities which meet the demand of affluent markets

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