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DEPARTMENT OF BIOTECHNOLOGY

SCHOOL OF AGRICULTURE AND BIOSCIENCES

15 day online Certificate course on **OPERATIONS IN PHARMACEUTICAL INDUSTRY**

Date: 19.07.2021- 04-08-2021; Time: 6.00 to 7.30 pm

ABOUT THE COURSE

- The Certificate course in Operations in Pharmaceutical Industry is conducted to facilitate students/young pharma professionals who desires to fulfill the internship credit as part of their academics or add value to their potential employment in pharma industry
- The duration of the course is 15 days and 1.5 hrs/day
- The maximum number of students admitted is 75
- This course will be taught by the academicians, scientists, industrialists (pharma), entrepreneurs through a blend of lectures, group discussion, case studies (based on the learnings and contents of the course) as well as independent study.
- At the end of the course period, there would be an online evaluation and certificates would be issued to successful candidates

OBJECTIVE OF THE COURSE

- To deliver students with an advanced understanding of the theory, practices including analysis of microbial contaminants in pharma products using modern methods and implementation issues connected with good laboratory practices.

OUTCOME OF THE COURSE

The students will be able to

- Appraise the role and function of quality control in pharmaceutical manufacturing process
- Apply suitable microbiological techniques for the isolation and identification of pathogens and indicator organisms from an array of pharmaceutical products.
- Outline the practical aspects of microbiological safety, various detection methodologies and toxicological testing of products in the pharmaceutical industries.

COURSE CONTENTS

Introduction to process of Pharmaceutical Industry –SOP preparation, Good Laboratory Practices mandate, Clinical Trials and FDA approval; Microbiological Methods of Pharmacopoeia: Growth and Recovery of Microorganisms from Pharmaceutical Manufacturing Environments; Overview of Alternative Rapid Microbiological Technologies; ATP Bioluminescence and its use in Pharmaceutical Microbiology; Impedance; Cytometry; Techniques for detection of specific organisms using DNA-Based technologies; Sterility Testing; Microbial Limit Testing; Mycoplasma detection and testing; Active Air Sampling Test; Endotoxin Detection and Testing, Media fill test for sterile API manufacturing; Disinfectant efficiency test; Contamination Control Techniques for purified water system; UV light efficiency test; Analytical Techniques: High Performance Liquid Chromatography, Liquid Chromatography-Mass Spectrometry, MALDI- ToF; Entrepreneurship skills

COURSE STRUCTURE (Total Duration: 30 Hours)

Lectures	: 22.5 Hours
Independent Learning	: 3.5 Hours
Case study	: 4 Hours

ASSESSMENT TYPE: Online Quiz and Quality Assessment

ELIGIBILITY: The certificate course is designed to suit the UG/PG/Research students of Microbiology, Biochemistry, Biotechnology, Chemistry, Food Processing Engineering/Technology, B.Pharm/M.Pharm Pharmacy, Forensic Sciences, Criminology, Life Sciences. It is also suitable for professionals (junior level) in pharma industry.

ONLINE EVALUATION: The registered candidates/participants will be required to give an online quiz (MCQ) at the end of the course for 50 marks.

HOW TO APPLY- REGISTRATION LINK: Participants can register online using the

LINK: <https://tinyurl.com/certinpharma>

Before proceeding to fill the form participants should pay the fee. Transaction ID should be mentioned in the registration form and transaction receipt need to be uploaded.

COURSE FEE: Rs. 1770/- [inclusive of taxes]

Payment Mode: NEFT/Online/ EDUSERVE (Karunyan Only)

REGISTRATION DEADLINE: 10.07.2021

PRINTED CERTIFICATES WILL BE POSTED TO THE PARTICIPANTS

FURTHER DETAILS (COURSE COORDINATORS)

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