

## REGISTRATION FEE

\* Faculty: Rs. 1000/- Others: Rs. 500/-

The registration fee will include study material, registration kit, working lunch and tea. Fee can be paid in cash or through a DD in favor of "Coordinator, STTP on Bioinformatics for Biologists - 2013", payable at SBI, MANIT Branch, Bhopal.

## STTP COMMITTEE

### PATRON

Dr. Appu Kuttan K. K.  
Director

### ADVISOR

Dr. A. M. Shandilya  
Coordinator, TEQIP

### COORDINATORS

Dr. Khushhali M. Pandey  
Prof. Ajay Pandey

### ORGANIZING COMMITTEE

Anvita Gupta                      Mohit Jha  
Sudha Singh                      Akshi Tiwari

### ADDRESS FOR CORRESPONDENCE

**DR. KHUSHHALI M. PANDEY**  
Assistant Professor  
Deptt. of Chemical Engg. & Biotechnology  
Email: [menaria.khushhali@gmail.com](mailto:menaria.khushhali@gmail.com)  
Phone: (0755)4051354, 9425321177

## SHORT TERM TRAINING PROGRAM ON BIOINFORMATICS FOR BIOLOGISTS

(Co-sponsored by TEQIP Phase II)

18<sup>th</sup> – 22<sup>nd</sup> MARCH, 2013

### REGISTRATION FORM

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Qualification: \_\_\_\_\_

Contact Address: \_\_\_\_\_

Mobile No: \_\_\_\_\_

Email ID: \_\_\_\_\_

Accommodation Required: Yes / No  
(\*Available on payment basis and subject to availability)

Payment Details: Cash / DD

DD No.: \_\_\_\_\_ Date: \_\_\_\_\_

Bank: \_\_\_\_\_

Signature of Applicant

Signature & Seal of Sponsoring Authority

## SHORT TERM TRAINING PROGRAM ON BIOINFORMATICS FOR BIOLOGISTS

(Co-sponsored by TEQIP Phase II)

18<sup>th</sup> – 22<sup>nd</sup> MARCH, 2013



### COORDINATORS

Dr. Khushhali M. Pandey  
&  
Prof. Ajay Pandey

Organized By

Department of Chemical Engg. & Biotechnology

**MAULANA AZAD  
NATIONAL INSTITUTE OF TECHNOLOGY  
BHOPAL (M. P.) - 462 051**

## **ABOUT THE INSTITUTE**

Maulana Azad National Institute of Technology (MANIT), an Institute of National Importance, was founded in 1960 as a Regional Engineering College (REC) and named after the great scholar and first Education Minister of India, Maulana Abul Kalam Azad. Right from its inception, the institute has been successful in attracting bright young engineering students from all nooks and corners of the country and has succeeded in churning out highly skilled and competent manpower that has made significant contribution to the growth and development of the country. With faculty strength of almost 300, nearly 5000 students, 13 UG and 20 PG courses, and a variety of applied and theoretical research programs; the institute is one of the most prominent institutes in Central India.

## **ABOUT BHOPAL**

Bhopal, the capital of Madhya Pradesh, is a truly beautiful city famous for its lakes and hills. It is a centrally located place which is well connected to all parts of the country by road, rail and air. MANIT is about 10 km from the main railway station of Bhopal and almost 5 km from Habibganj railway station. Weather in Bhopal is normally pleasant in March.

## **ABOUT THE DEPARTMENT**

Department of Chemical Engineering & Biotechnology currently offers a UG course in Chemical Engineering and two PG courses, namely – M. Tech. (Biotechnology) and M. Tech. (Chemical Process Design).

## **INTRODUCTION**

Bioinformatics is an interdisciplinary area and is widely perceived as a balanced mix of Biological Sciences, Mathematics and Information Technology. To store, manage, analyze and merge huge volumes of biological data; computers and advanced computational techniques are used. The ultimate goal of bioinformatics is to enhance the understanding of biological processes and allied systems by utilizing mathematical and computational techniques as tools of assistance. The new knowledge, thus obtained, is sure to have profound impact on fields as varied as human health, agriculture, environmental science, energy and biotechnology.

## **AIM OF THE COURSE**

This STTP aims to equip students, researchers and faculty engaged in active research in the area of Bioinformatics & Biotechnology, and

having a background in Biological Sciences, to be exposed to basic fundamentals of this ever – growing subject area, modern research techniques and cutting - edge collaborative research aimed at strong biological and biomedical applications. It is likely to help participants deal with the massive explosion in research data, screen it as per specific research requirements, and convert raw data into structured clusters of information.

## **COURSE CONTENT**

Topics to be covered under the course broadly include, but not limited to:

- Biological Data Production, Submission & Retrieval.
- Biological Sequence Analysis.
- Computational Phylogenetics.
- Computational Comparative Genomics.
- Population Genetics & Population Dynamics.

## **ELIGIBILITY**

PG Students, Ph.D. Scholars and Faculty of AICTE / UGC recognized institutes with relevant academic background.