



**Indian Institute of Technology Mandi**

**&**

**National Network for Mathematical  
and Computational Biology (NNMCB)**

*(funded by SERB)*

**Presents a Three-Day Lecture Programme on**



## **Mathematical Modeling and Data Analysis in Biology**

**October 27 to 29, 2014 at the Indian Institute of Technology (IIT) Mandi, Himachal Pradesh**

### **Programme:**

This Lecture Programme aims to provide a glimpse to students and young researchers of important areas in the field of Mathematical and Computational Biology. The programme will consist of lectures exposing participants to basics of the mathematical and computational methods used, and then will elaborate them on specific cases from biology. Along with providing the mathematical and computational foundation of the interdisciplinary subjects, several case studies will be discussed from the preliminary steps to elaborate development of mathematical models from biological information, methodologies of analyzing the models, arriving at mathematical and computational results, and their interpretation in biological terms.

### **About IIT Mandi:**

Indian Institute of Technology Mandi is one of the youngest IIT nestled in the Sivalik Range of the Himalayas, away from the bustle of the metropolis, a new abode of learning has germinated. It is mandated to provide leadership in the field of science and technology. Presently, it offers degree program leading to B.Tech, M.tech, MS, M.Sc, and Ph.D.

### **About NNMCB:**

Supported by the Science and Engineering Research Board (SERB), Govt. of India, the National Network for Mathematical & Computational Biology (NNMCB) is organizing its second Instructional School on Mathematical & Computational Biology (ISMCB-1) from, to fulfill its mandate of disseminating the methods and concepts used in the interdisciplinary studies in Mathematical and Computational Biology to under- and postgraduate students of Science and Engineering.

### **Participants:**

Bright and motivated students pursuing Science, Engineering or Technology courses at the under-graduate, postgraduate levels and Ph.Ds can apply. Ph.D. students working in the relevant area are also encouraged to submit and present their work during the workshop. For participation in workshop and/or paper presentation, preference will be given to students having done some mathematics, statistics, or computational courses during their undergraduate studies.

**Number of participants will be 30.**

### **Application Procedure:**

Registration fees:

For non-residents of Mandi: Rs 500

For residents of Mandi : Rs 200

Fee is payable in advance by Demand Draft / Cheque in favour of "The Registrar, IIT Mandi" payable at Mandi. The duly filled registration form along with the registration fee should be sent to:

Dr. Sarita Azad,  
School of Basic Sciences,  
Academic Block

Indian Institute of Technology Mandi,  
Mandi - 175001

Application form may be downloaded from

<http://www.iitmandi.ac.in/nmcb2014/index.htm>

Participants should also send soft copy of their application form with scanned copy of the bank draft at the following email ([nmcb2014@iitmandi.ac.in](mailto:nmcb2014@iitmandi.ac.in)).

Selected participants will be paid travelling allowance by Train(3<sup>rd</sup> AC)/Bus from their place of residence/study to Mandi. Boarding and lodging would be provided during the School period.

### **Important Dates:**

**Last Date of application submission : October 1, 2014**

**Date of acceptance: : October 10, 2014**

### **Organizing Committee:**

Dr. Sarita Azad (convener)

Dr. Manoj Thakur(co-convener)

Dr. Syed Abbas

Dr Rajendra K. Ray

Dr. Muslim Malik

Dr. Pratibha Garg

### **Advisory Board:**

Prof. Timothy A. Gonsalves, Director IIT Mandi

Prof. Somdatta Sinha, IISER Mohali

Prof. Subrata Ray, IIT Mandi

Prof. B.D.Chaudhary, IIT Mandi

### **Speakers:**

Prof. Somdatta Sinha, IISER Mohali

Prof., Govindan Rangarajan, IISc Bangalore

Prof. James Gomes, IIT Delhi, Prof. Sitabhra Sinha, IISc Chennai

Dr. Malay Banerjee, IIT Kanpur, Prof. D.C. Gautam Himachal Pradesh University

Dr. Asish Mitra, National Centre for Medium Range Weather Forecasting

Dr. Giridhara R Babu, Public Health Foundation of India

Dr. Vikram Singh, Central University of Himachal Pradesh

Dr. Sarita Azad, IIT Mandi, Dr. Manoj Thakur, IIT Mandi,

Dr. Rajendra K. Ray, IIT Mandi, Dr. Syed Abbas, IIT Mandi

**For online registration and other details, please visit <http://www.iitmandi.ac.in/nmcb2014/index.htm>**