

AICTE TRAINING AND LEARNING (ATAL) ACADEMY

AICTE is committed for the development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. The Council understands that it is the need of the day to train the young generation in skill sector and faculty & technicians in their respective disciplines. To keep an institute competitive and more productive, faculty training on the latest tools and technologies is vital. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. Accordingly, it was decided to the formation of AICTE Training And Learning - (ATAL) Academies. As a part of its activities, Malaviya National Institute of Technology, Jaipur along with AICTE ATAL Academy will conduct Computer Science and Biology Faculty Development Program (FDP) from 18th to 22nd January, 2021 at Malaviya National Institute of Technology, Jaipur through online mode.

WHO SHOULD ATTEND

As the field being highly interdisciplinary and holds potential for high growth, the workshop is open to all the participants who are interested in Bioinformatics and Computational Biology. The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry and staff of host institutions can attend the course.

PATRON

Prof. Udaykumar R Yaragatti
(Director, MNIT, Jaipur)

CONVENERS

Dr. Dinesh Gopalani
Dr. Mushtaq Ahmed
Dr. E. S. Pilli
Dr. Dinesh Kumar Tyagi

COORDINATORS

Dr. Yogesh Kumar Meena
Dr. Arka Prokash Mazumdar
Dr. Mahipal Jadeja

CONTACT PERSON

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KEY INFORMATION FOR PARTICIPANTS

Participants may register and join this course using link: <https://www.aicte-india.org/atal>
No registration fee for the participants. A test shall be conducted at the end of the program and participants will be awarded a certificate of participation by ATAL Academy. The certificate shall be issued to those participants who will have minimum 80% attendance and will score minimum 60% marks in the test.

RESOURCE PERSONS

The course content will be delivered from a pool of experts on the subject from IITs, NITs and other institutions of repute.

Malaviya National Institute of Technology, Jaipur

announces



**AICTE Training And Learning
(ATAL) Academy sponsored
FDP
On**

Computer Science and Biology

January 18-22, 2021



Organized by:

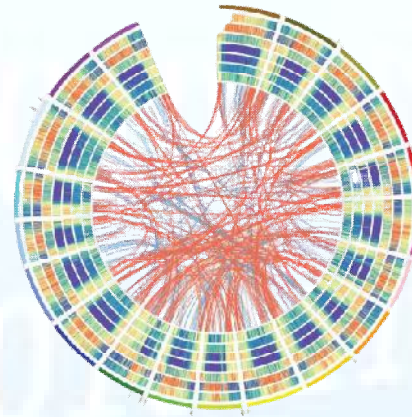
**Department of Computer Science & Engineering
Malaviya National Institute of Technology
Jaipur-302017**

COURSE OBJECTIVES

To get exposure and gain knowledge about the diverse facets of computational biology (fundamentals of bioinformatics, developing algorithms, data analysis and translational bioinformatics).

COURSE CONTENTS

Algorithms and Applications of DNA sequence analysis, DNA Databases - Protein structure and function - Protein sequence databases, sequence alignment - Global and local alignment - Multiple sequence alignment - Protein sequence analysis- Protein secondary structures - Deep learning tools in sequence analysis. Genome informatics: NGS, RNA seq. Bio-computing and Bio-communication. Computational Biology Development and applications of coarse-grained (CG) methods for biomolecules and mechanistic study of large biomolecular systems - Modeling of biomolecular recognition - Free energy simulations - Modeling host-pathogen interactions - High end computation for generated big data, Biological networks, Multi-omics: genomics, proteomics, metabolomics.



ABOUT MNIT

Malaviya National Institute of Technology (MNIT), Jaipur is one of the NITs established by Ministry of Human Resource Development, Government of India. The Institute, earlier known as MREC, was established in 1963 as a joint venture of the state and central Governments. Later in 2002, the college was given the status of National Institute of Technology and on August 15, 2007, proclaimed Institute of National Importance through Act of Parliament. MNIT campus spreads over 325 acres of lush green area in the prime location of Jaipur city. The Institute has completed its Golden Jubilee year 2012-13 and as a part of year-long celebrations of its 50 years of teaching and excellence, various academic activities were organized. At present, in addition to research, consultancy and developmental activities, the Institute offers UG and PG (M. Tech./M.Sc. & Ph.D.) level courses to about 5000 students in almost all leading fields of engineering, technology, management and sciences.

