



# ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) on Recent Developments in Computational Biology

(21<sup>st</sup> February – 2<sup>nd</sup> March 2022) (03 - 07 PM)

Organized by  
**Department of Biotechnology**  
in association with  
**Electronics & ICT Academy, NIT Warangal**

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

## Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

## About the FDP:

This faculty development program (FDP) is devoted to address the need of technological developments in Biotechnology and its allied fields. Bioinformatics is the application of tools of computation and analysis to capture and interpret various forms biological data and it's an essential for management of data in modern biology and medicine. This workshop empowers the participants to understand sources of data generation (sequences), forms of data and aims to discuss the sequence, structure and functions with new technologies. This workshop is intended to provide an insight on Bioinformatics applications in various fields with hands-on Experience.

## Major Course Contents:

- ❖ New trends in Sequence analysis
- ❖ Gene and Genome analysis
- ❖ Mining of Biological Pathway
- ❖ Identification Metabolic diseases
- ❖ Metabolisms and analysis
- ❖ Cheminformatics
- ❖ Molecular Docking & Virtual library
- ❖ Representation of data
- ❖ Data analysis
- ❖ Artificial Intelligence in Bioinformatics
- ❖ Big data and data analytics
- ❖ Modern trends in Bioinformatics
- ❖ Software tools for Bioinformatics
- ❖ Hands on Training

## Faculty conducting this programme:

The programme will be conducted in online mode by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver lectures as part of the course.

## How to apply:

Participants are required to fill in the online registration form given in the <https://forms.gle/4nreiTsi3rbBQ8qt6>

## Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 100. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

## Registration Fee Particulars:

Faculty and Research Scholars	Rs.500/-
Industry Participants	Rs.1500/-

Participants need to pay the Registration Fee Online using the following details.

Online Transfer Details	
Account Name	: <b>Electronics &amp; ICT Academy NITW</b>
Account No	: <b>62423775910</b>
IFSC	: <b>SBIN0020149</b>
Bank and Branch	: <b>State Bank of India, NIT (REC) Warangal</b>

## Important Dates:

Last date (Application & DD)	<b>18.02.2022</b>
Selection List by E- mail	<b>19.02.2022</b>
Duration	<b>21.02.2022 to 02.03.2022</b>

## About NIT Warangal:

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D. programmes in various specializations. All B.Tech and M.Tech programmes of NIT Warangal are NBA accredited.

## About Department:

Biotechnology and Bioinformatics have the ability to combine biological sciences and innovative technologies to create or evolve novel processes or novel products beneficial for human welfare. Until few years ago academicians trained in traditional disciplines of biological sciences were specializing in biotechnology and thus meeting the demands of both academia and industry. However, tremendous advancements in biology over the past half century- from Watson and Crick's elucidation of the structure of DNA to today's astonishing, rapid progress in the field of synthetic biology- the design, engineering, construction and production of synthetic cell factories, a need has been felt that educational programmes be launched to educate and train youth in biotechnology and bioinformatics.

The Department of Biotechnology offers B. Tech and M.Tech courses in Biotechnology, PhD program in various disciplines of Biotechnology. The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed research organizations in India and Overseas. Department conducts various sponsored programmes throughout the year.



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1. Name:
2. Designation:
3. Institution:
4. Email:
5. Mobile No:
- 6.

Reference No:
Amount:
Bank :
Date:

7. Address for Correspondence:
8. Educational Qualification:
9. Subjects taught so far:
10. No. of refresher courses/workshops attended:
11. Experience (in years):  
Teaching:            Research:            Industry:

12. Do you belong to SC/ST: YES /NO  
(If yes, please specify and attach a copy of caste certificate to claim the concession)

**Declaration:**

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Date

Signature of the Applicant

## SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. .... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on "**Recent Developments in Computational Biology**", sponsored by **Electronics & ICT Academy** during **21<sup>st</sup> February – 02<sup>nd</sup> March, 2022** at NIT Warangal, Telangana.

Signature of Head of Institution  
(With seal)

## Address for Correspondence:

Post your application form:

### Dr.Perugu Shyam

Assistant Professor  
Department of Biotechnology  
National Institute of Technology Warangal  
Hanamkonda, Telangana, PIN: 506004

For more details about **Electronics & ICT Academy, NIT Warangal**, please visit: <https://nitw.ac.in/eict>

## For more enquiries please contact:

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## Coordinators

### Dr. Perugu Shyam

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