



ONLINE FACULTY DEVELOPMENT PROGRAM (FDP)

ON

Recent Trends in Soft Computing Techniques

(20th - 29th October 2021)

Organized by
E & ICT Academy, NIT Warangal

in association with

Sabarmati University, Gujarat, India

(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 FDP:

The Faculty Development Program will help to disseminate the knowledge in the domain of science and Technology. Soft computing is an emerging approach to computing which parallel the remarkable ability of the human mind to reason and learn in an environment of uncertainty and imprecision. Soft computing is based on some biological inspired methodologies such as genetics, evolution, ant's behaviors, particles swarming, human nervous systems, etc.

Soft computing encompasses techniques like Neural networks, fuzzy logic and optimization algorithms, machine learning and it has emerged as an effective tool for the purpose of modeling, control and decision-making problems in complex systems. This FDP will provide a platform for learning Soft Computing and Optimization algorithms with their application in various domains.

Major Course Contents:

- ❖ Introduction to various Soft Computing Techniques
- ❖ Software Engineering.
- ❖ Soft computing application operation and control
- ❖ Soft Computing in Renewable Energy Systems
- ❖ Soft Computing for Smart Homes and Cities
- ❖ Optimization Techniques.
- ❖ Feature Selection Methods
- ❖ Dimensionality Reduction Methods
- ❖ Introduction to Machine Learning
- ❖ Unsupervised Learning Methods
- ❖ Supervised Learning Methods
- ❖ Genetic algorithm in Robotics Applications
- ❖ Fuzzy logic Controller
- ❖ Adaptive Neuro-Fuzzy Inference System
- ❖ Embedded Systems.
- ❖ Artificial Neural Network.
- ❖ Introduction to artificial Intelligence
- ❖ Advances in Artificial Intelligence

Faculty conducting this program:

The program will be conducted by the faculty members from NIT Warangal and Sabarmati university; Academicians in the concerned field from IITs/NITs/IITTs/renowned universities. have been invited

Registration Fee Particulars:

Faculty and Research Scholars	Rs.750/-
Industry Participants	Rs.2250/-

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

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

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/gCuC9pz4BAwnRnPP8>



Selection Criteria:

Selection will be done based on first-come-first-serve to a maximum number of 60 (sixty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case the candidate is not selected, the registration amount will be refunded. Candidates will be issued certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date (Application & DD)	15/10/2021
Selection List by E- mail	18/10/2021
Duration	20/10/2021 to 29/10/2021

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 programs in various specializations. All B. Tech and M. Tech programs of NIT Warangal are NBA accredited.

About Sabarmati University:

Sabarmati University is spread over lush green land and eco-friendly campus within geographical boundaries of Ahmedabad. It provides array of Certificates, Diplomas, Graduate, Post Graduate and Ph.D. programs to boast a legacy of rich Indian education, culture and artistic skills among future civilization of India and abroad. SU firmly believes in fostering lifelong passion and zest for knowledge among its learners. This makes them possess entrepreneurial and independent mind. With the support of sports and co-curricular activities, the students AT SU learn leadership and craftsman qualities while pursuing quality higher education.



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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

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 Trends in Soft Computing Techniques**", sponsored by Electronics & ICT Academy during **20th - 29th October-2021** at Sabarmati University .

**Signature of Head of Institution
(with seal)**

Address for correspondence

Post your application form to

Dr. Varun Kumar

Professor ,Department of Mathematics,
Sabarmati University Ahmadabad
Gujarat-382481 India

It is requested to all the delegates, after completion of application form, all the payment details, screenshot of the payment and scanned application form has to be uploaded in the following online registration link.

Registration Link:

<https://forms.gle/qCuC9pz4BAwnRnPP8>

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

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