



ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

Optimization Techniques in ML and AI (OTIMLAAI-2022)

(February 26 -March 07, 2022)

Organized by

E & ICT Academy, NIT Warangal

in association with

HALDIA INSTITUTE OF TECHNOLOGY

An Autonomous Institute

Approved by AICTE | Affiliated to MAKAUT

NAAC Accredited Institute with Grade 'A'

Haldia, Purba Medinipur-721657, WB



(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 FDP will help to disseminate the knowledge in the domain of Machine Learning, Artificial Intelligence and Soft Computing Techniques. It empowers the participants to understand how AI and Machine Learning can be used to innovate and improve the various Soft Computing based approaches. Machine Learning and Deep learning are fast-growing field of Artificial Intelligence concerned with the study and design of computer algorithms for learning good representations of data, at multiple levels of abstraction. Since data is overwhelming, organizations are struggling to extract the meaningful insights, which might help to make smarter business decisions. The participants will be trained with hands-on approach in order to have an in-depth insight into the domain of Data Sciences and expose them to Feasibility & future scope

Major Course Contents:

- ❖ Introduction of Machine Learning and AI
- ❖ Optimization Techniques: Theory and Applications
- ❖ Probability and Statistics for Data Science.
- ❖ Applications of AI and ML towards COVID-19
- ❖ Linear and Polynomial Regression and applications
- ❖ Classification: SVM, Multi-class SVM, K-NN
- ❖ Unsupervised learning, Dimension reduction methods
- ❖ Bayesian learning, decision tree-based methods
- ❖ Theory and practice of Genetic Algorithm, Ant Colony Optimization, Particle Swarm Optimization, Differential Evolutionary Algorithm,
- ❖ Fuzzy sets and Multi-Criteria Decision-Making Methods
- ❖ Neural Network and its Applications
- ❖ Multi-objective Optimization Methods and Applications
- ❖ Multi-objective Machine Learning and Applications
- ❖ Intelligent decision support systems
- ❖ Soft Computing tools and techniques
- ❖ Case Studies on Soft Computing and Meta-Heuristic Optimization Algorithms
- ❖ Hands on Sessions

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal and HIT, Haldia. 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 as part of the course.

Eligibility:

The programme is open to the Faculty of Engineering Colleges, MCA Colleges, other allied disciplines, and Industry personnel working in the concerned /allied discipline can also attend.

Registration Fee Particulars:

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

How to apply:

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

Participants are required to fill the online registration form by clicking on the following link (or copy the link, paste it to some browser, and press enter) once payment is done.

<https://forms.gle/QYDx1hTbwNyRe5f49>

Important dates:

Last date to submit Registration	23.02.2022
Selection List by E- mail	24.02.2022
FDP Duration	26.02.2022-07.03.2022

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

About HIT, Haldia:

Haldia Institute of Technology (Autonomous), an Institute of ICARE, Haldia, approved by AICTE, affiliated to MAKAUT, began its journey in the year 1996. It is the first private and accredited academic institution catering technical education in West Bengal. The Institute is situated at Haldia – an industrial hub in Eastern India. In its mission to achieve the Centre of Excellence in the field of Science, Technology and Management Education, Haldia Institute of Technology is dedicated to the objectives of creating competent, creative professionals and great entrepreneurs with capabilities of accepting new challenges. The Institute offers UG & PG degree courses in various departments. HIT is accredited by the National Assessment and Accreditation Council (NAAC) with an "A" grade. Most of the courses are accredited by the National Board of Accreditation (NBA).



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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.

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on "**Optimization Techniques in ML and AI**", sponsored by Electronics & ICT Academy during **26th Feb-07th March, 2022** at NIT Warangal.

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

Address for correspondence

Send your application form through email at hithodsash@gmail.com

Dr. Dipak Kumar Jana

Professor and Head

School of Applied Science & Humanities, Haldia Institute of Technology, Haldia, Purba Medinipur, West Bengal, India, Pin-721657, Email- dipakjana@gmail.com, Mob- +91 9474056163

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/QYDx1hTbwNyRe5f49>

For more details about Electronics & ICT Academy, NIT, Warangal, please visit:

<https://nitw.ac.in/eict>

For more enquiries, please contact:

Dr. Dipak Kumar Jana

Mobile: 7001737938

Email: hithodsash@gmail.com

Date

Signature of the Applicant

Coordinators

Dr. Sujit Das

Assistant Professor

Department of Computer Science and Engineering

National Institute of Technology Warangal

Warangal – 506004, Telangana, India

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