ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
Real Life Applications of AI, ML and Soft Computing Techniques
(March 22-31, 2024)
Organized by

E & ICT Academy, NIT Warangal
in association with

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University Under Section 3 of UGC Act 1956)
Category I University, NAAC "A++" Grade
Ramapuram, Chennai - 600 089, Tamil Nadu

(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 Soft Computing can be used to innovate and improve the various Data Science 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 AI, ML and Soft Computing Techniques and expose them to Feasibility & future scope

Major Course Contents:
- ❖ Introduction of AI, ML and Soft Computing techniques
- ❖ Data Science: Challenges and Opportunities
- ❖ Applications of AI and ML towards COVID-19
- ❖ Mathematical foundation of AI and ML.
- ❖ Fuzzy Sets in AI, ML and Optimization Techniques
- ❖ Fuzzy Optimization and Decision Making
- ❖ Regression Analysis and Applications
- ❖ Classification: SVM, Multi-class SVM, K-NN
- ❖ Unsupervised learning, Dimension reduction methods
- ❖ Bayesian learning, decision tree-based methods
- ❖ Introduction to Deep learning, CNN, RNN
- ❖ Neuro-Fuzzy system and practical implementation
- ❖ Searching Techniques in AI
- ❖ Multi-objective Optimization and Applications
- ❖ Soft Computing tools and techniques
- ❖ Case Studies of Soft Computing, AL and ML
- ❖ Hands on Sessions

Faculty conducting this programme:
The programme will be conducted by the faculty members from NIT Warangal and SRMIST. 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.1000/-**
Industry Participants	**Rs.1000/-**

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 once payment is done.
https://forms.gle/7u9NEgbDiHwcaFdf8

Important dates:

Last date to submit Registration	**16.03.2024**
Selection List by E- mail	**19.03.2024**
FDP Duration	**22/3/2024 - 31/3/2024**

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 SRMIST, Ramapuram:
SRM Institute of Science and Technology is the number one private institute in the country, which has set standards in experimental education and knowledge creation across various fields. A continuous emphasis on modern teaching methods, global links for research, student exchange and knowledge sharing and industry- institute interactions have consistently placed SRM, well ahead in every field. SRM Institute of Science and Technology has been categorized as grade 'A' by Ministry of Human Resource Development (MHRD), Government of India. SRM is accredited by NAAC with 'A++' grade in the year 2018. Spread over 25 acres, this institution has excellent infrastructure facilities including smart class rooms, modern library and Wi-Fi enabled campus.

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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. Experience (in years):

   Teaching: Research: Industry:

10. 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 **online** FDP on **"Real Life Applications of AI, ML and Soft Computing Techniques",** sponsored by Electronics & ICT Academy, NIT Warangal during **22nd- 31st March, 2024.**

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

Address for correspondence
Send your application form through email at
hod.maths.rmp@srmist.edu.in

Dr. Shakeela Sathish
Professor and Head
Department of Mathematics
SRMIST, Ramapuram
Chennai – 600 089
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/7u9NEqbDiHwcaFdf8

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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