NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

Warangal - 506 004, Telangana

Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI)

Call for Registration and Participation

Theme: Artificial Intelligence and Machine Learning using MATLAB/Python for Engineering and Biomedical Applications

Program Dates: 16th- 22nd August, 2023

Venue: National Institute of Technology Warangal



Register before: 10-08-2023

Scan to Register

No Registration Fee

Click to register: https://forms.gle/njBftAsRaraC97Yr5

Objectives of the Program:

- Develop machine learning algorithms that can analyze individual students' learning patterns and adapt instructional content to match their learning styles, thereby enhancing their understanding of mathematical concepts.
- Design tools and systems that support mathematics educators in identifying students' learning challenges early on, offering actionable insights and suggestions for interventions to improve overall learning outcomes.
- Develop interactive visualizations and gamified learning experiences using soft computing techniques to make abstract mathematical concepts more tangible and engaging for students.

Eligibility Criteria:

- Persons of Indian origin.
- Faculty / Scientists / Post-Doc Fellows / Ph.D. Fellows / Industry Persons / M.Sc. students/ M.Tech. students who are actively involved in research and development (R&D) in the fields of Mathematics or any relevant area.

Important Instruction:

Fill in the prescribed bio-data form attached with this brochure and get it endorsed by the head of the institution. And keep the scanned copy ready, which needs to be uploaded during registration.

Organized by

National Institute of Technology Warangal

Funded by

DST, Govt of India

About NIT Warangal:

National Institute of Technology Warangal, formerly known as Regional Engineering College, was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate, 35 post-graduate programs and guiding 952 PhD scholars besides post-doctoral programs. About 6864 students across the country including international students' study on the campus. It is a fully residential campus spread across 250 acres with excellent infrastructure in the form of state-of-the-art library, seminar halls, guest houses and research laboratories.

About STUTI:

The Scheme 'Synergistic Training program Utilizing the Scientific and Technological Infrastructure' (STUTI) is intended to build human resource and its knowledge capacity through open access S&T Infrastructure across the country. As a complement to the various schemes of DST funding for expansion of R&D Infrastructure at academic institutions, STUTI scheme envisions a hands-on training program and sensitization of the state-of-the-art equipment as well as towards sharing while ensuring transparent access of S&T facilities.

Modules covered under training:

- Licensed MATLAB software- Fuzzy Logic Toolbox, Image Processing Toolbox, Graph Visualization Tools, Jupyter Notebook, AI/ML related packages and libraries
- Python Programming Language- NumPy and Pandas, Scikit-learn, PyTorch
- Optimization Techniques, Machine Learning, Deep Learning, Computer Vision, Image Processing
- Opencv-Image processing and Computer Vision Software's, R-Programming, Mathematical calculus
- Biomedical Applications, Statistical Data Analytics, Hardware Accelerator for AI/ML, Signal processing and applications, AI/ML for Wireless Communications system.

STUTI Team:

Chairman
Prof. Bidyadhar Subudhi,
Director, NIT Warangal
Co-Chairman
Prof. Somasekhar V.T.,
Dean (R&C), NIT Warangal
Convenor
Prof. C.S.R.K. Prasad, *Registrar(I/c), NIT Warangal*

Principal Investigator
Prof. N. Narasaiah, *Dept. of MME,NITW*

Co-Convenor
Prof. P. Srilakshmi, *Head, CRIF, NITW*

Course Coordinator
Prof. Amara Prakasa Rao, *ECE, NITW*
Prof. Md. Farukh Hashmi, *ECE, NITW*

Co-Principal Investigator
Dr. T K Sai, *Principal Scientific Officer, CRIF, NITW*

Program Coordinator
Sri D Ravikumar,
Technical Officer, CRIF, NIT Warangal
Sri Harish Madupu,
Technical Officer, CRIF, NIT Warangal

Note:

The shortlisted candidates will be intimated through mail. All the selected participants have to submit the uploaded bio-data form physically for the confirmation of participation.

Non-local participants are eligible for boarding/ lodging at**, NIT Warangal** on double sharing basis.

For domestic travel of participants, the reimbursement for train/bus tickets is allowed as per actual up to 3AC fare (for outstation participants only).

Contact Us:

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BIODATA FOR STUTI-21 DST TRAINING PROGRAM

NAME Prof./Dr./Mr./Ms.															

DESIGNATION															

ORGANIZATION															

DATE OF ENTRY IN SERVICE														

CATEGORY (GENERAL / SC / ST / OBC)									

DATE OF BIRTH										

SEX (M/ F)		

COMPLETE ADDRESS (OFFICE)															

COMPLETE ADDRESS (RESIDENCE)															

CONTACT DETAILS	PHONE (O)	PHONE (R)	MOBILE No.	E-MAIL

CONTD. 2

EDUCATIONAL / PROFESSIONAL QUALIFICATIONS (GRADUATION ONWARDS)					
Sr. No.	EXAMINATION/ DEGREE	UNIVERSITY/ INSTITUTE	YEAR	SUBJECT	DIVISION/PERCENTAGE OF MARKS

EXPERIENCE					
Sr. No.	NAME OF THE ORGANISATION	DESIGNATION	FROM	TO	DUTY PERFORMED

TRAINING ATTENDED				
Sr. No.	YEAR	NAME OF THE TRAINING PROGRAMME	NAME OF THE INSTITUTE	DURATION

CONTD.3

RESEARCH EXPERIENCE				
Sr. No.	YEAR	TOPIC OF RESEARCH	SPONSORING AGENCY	GIST OF REASEARCH

PAPER PUBLISHED / PATENT FILED/OBTAINED				
Sr. No.	YEAR	TOPIC OF PAPER/ BOOK	GIST OF PAPER	NAME OF JOURNAL/ MAGZINE/ PUBLISHER

Briefly give details of significant contribution made by you in the field of Science & Technology during your career. (100 words)

Date:
Place:

(Signature of the Participant)

(Head of the Institution)