NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

Warangal - 506 004, Telangana

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

Call for Registration and Participation

Machine learning algorithms and soft computing techniques for Learning Mathematics

Theme: Hands-on Training on Soft computing techniques & Machine learning Algorithm

Program Dates: 08th- 14thAugust, 2023

Venue: Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamil Nadu



Register before: 05-08-2023

Scan to Register

No Registration Fee

Click to register: https://forms.gle/rqF8RbWKRJWjgteY8

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

Bannari Amman Institute of Technology Tamil Nadu (Spoke),

&

NIT Warangal (Hub)

Funded by

DST, Govt of India

About Bannari Amman Institute of Technology:

Bannari Amman Institute of Technology (BIT) is an autonomous, self-financing engineering college, approved by AICTE, New Delhi and affiliated to Anna University, Chennai. It was established in the year 1996 by the Bannari Amman Educational Trust, serves as one of the citadels of higher education in the southern part of India. BIT campus provides environment for learning in harmony with nature, away from the odds of the city life. BIT aids to impart knowledge, teamwork, innovation, entrepreneurship, courage, sacrifice and duty which are innards of a meaningful life. The Institute has a team of 576 dedicated faculty members and they are encouraged to have teaching accountability, morals and values and to be role models to the students. BIT offers 21 undergraduate, 10 postgraduate and Ph.D. programmes in Science, Engineering, Technology and Management. BIT also has 25 sophisticated research laboratories and 9 centre of excellence for the betterment of students, research scholars and faculty members. The Department faculty members have obtained research projects funded by DST-SERB, BRNS, UGC-DAE-CSR and TNSCST. The faculty members have research collaboration with internationally recognized scientists from South Korea, Japan, USA, Taiwan and Malaysia. BIT Special Laboratories provide a platform for students to learn, practice, and innovate on the globally sought after skills, beside product development. The benchmarking initiative of BIT Gurugulam provide students with hands-on experience in foundation skills under faculty supervision. Through the program, students will get acquainted with professional and technical skills.

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.

STUTI Team:

Chairman
Prof. Bidyadhar Subudhi,
Director, NIT Warangal

Patron
Dr C Palanisamy, *Principal, BIT Sathy, TN*

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. Venkata Srilakshmi P, *Head CRIF, NITW*

Coordinator
Dr. P. Saravanamoorthi, , *HoD of Mathematics, BIT, Sathy, TN*

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

Program Coordinator
Sri Harish Madupu,
Technical Officer, CRIF, NIT Warangal
Dr. M. Parimala, *ASP, Department of Mathematics, BIT, Sathy.*

Note:

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

Non-local participants are eligible for boarding/ lodging at **Bannari Amman Institute of Technology** on a 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:

Dr. P. Saravanamoorthi, BIT Sathy, TH
Dr. K. Prakash, BIT Sathy, TN
Email: hodmaths@bitsathy.ac.in
Ph. 9043789941, 9894864438, 9944104612
Sri Harish Madupu,
Technical Officer, CRIF, NIT Warangal
office_stuti@nitw.ac.in

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:

- MATLAB software- Fuzzy Logic Toolbox, Genetic Algorithms Toolbox, Natural Language Processing (NLP) Toolbox, Graph Visualization Tools
- SAGEMATH software
- Python Programming Language- NumPy and Pandas, Scikit-learn, PyTorch, Version Control Systems
- Bio info tools and techniques
- R-Programming
- Cloud Computing Platforms

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)