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About Institute

The North Eastern Regional Institute of Science and Technology (NERIST) is a unique Institute of its own kind in the country, having unconventional and innovative academic programmes. It is an autonomous institute under MHRD, Govt. of India. It was established in 1983 to produce technical manpower at various levels and to meet the technical requirements for the all-round development of the North Eastern States. NERIST got the status of deemed to be university on 31st May 2005 under section 3 of the UGC Act 1956. It offers modular pattern of education in all disciplines of Engineering along with Forestry as an applied science discipline from 10th standard to degree levels. It also offers various postgraduate (M.Tech, MBA and MSc) and doctoral programmes in all branches of engineering, applied science, physics, chemistry, mathematics, humanities and management.

About Department

Department of Mechanical Engineering came into existence as one of the core branches of engineering and started since the inception of the institute in 1986. The department offers Certificate programme, Diploma, Degree in Mechanical engineering in modular pattern of education having lateral and vertical entry. In addition, two M.Tech. programmes and Ph.D. Programmes are started in 2006 onwards. The department is currently run 16 Nos. of experienced as well as young motivated well-qualified faculty members from reputed institutes like IISc, IITs, NITs, JU, IT-BHU, BESU, NERIST etc. and experienced supporting staff to generate human resources to cater the fast growing industrial and academic need of the country at various levels.



AICTE Training and Learning Academy

Sponsored
One Week Online FDP



Application of Artificial Intelligence and Machine Learning in Engineering Problems

14th to 18th September 2020



Coordinator

Dr. Santosh Kumar Tamang

Assistant Professor

Department of Mechanical Engineering

NERIST, Nirjuli-Arunachal Pradesh

Organized By

Department of Mechanical Engineering

North Eastern Regional Institute of

Science & Technology

(Deemed to be university)

Nirjuli-791109, Arunachal Pradesh, India

About FDP

Artificial intelligence (AI) is an innovation that attempts independent functioning similar to human intelligence through task automation and outcome prediction. AI does not replicate the cognitive thinking of human intelligence but uses the knowledge of patterns in data with the help of technological tools to perform its function.

We desire to develop systems that are intelligent enough to automatically take decisions in complex real-life situations. It will be possible only due to the advancement in processing power, availability of enough training data, and development of statistical tools that have now enabled us to build such systems. AI is so pervasive today that you probably use it dozens of times a day without knowing it.

A Faculty Development Programme (FDP) on “Application of Artificial Intelligence and Machine Learning in Engineering Problems” is being conducted by Department of Mechanical Engineering at NERIST, Nirjuli Arunachal Pradesh to the faculty members of Engineering Institute, Research Scholars and other allied disciplines. This FDP is devoted to fundamental theory, recent developments and research outcomes addressing the related theoretical and practical aspects of artificial techniques/ machine learning techniques for engineering applications in wide area.

The FDP also aims hands-on using Python/MATLAB for techniques to be used for implementing applications that require machine learning algorithms.

Course Contents

The Course provides in-depth coverage of the following important emerging areas along with hands-on-training on the respective state of the art Open Source Simulators and other Tools:

- AI/ML and block chain technology
 - Supervised and un-supervised learning.
 - Artificial Intelligence algorithms
 - and its applications
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- Application of AI in manufacturing simulation

- Application of Machine learning in supply chain management
- Industry 4.0
- RNN, LSTM and application of NLP
- Hands on practice in Python/ Matlab software
- Simulation and modeling of manufacturing systems.

Registration FEE

There is no registration fee to attend this programme. Participants willing to attend this online FDP should have the provision of laptop/desktop with good quality internet connections and other audio-visual facilities, as required for online training.

Eligibility Criteria

Faculty members and research scholars from AICTE approved Engineering and polytechnic Institutes and Industrial persons are eligible to participate. Participants are required to fill online registration form. Details given in registration process.

Speakers

The resource persons for the program shall include faculty members of IITs, NITs, CFTIs, NERIST (the host institute) and professionals from industries.



Registration Process

Participants interested to attend this program need to make compulsory online registration on the below mentioned link: <https://www.aicte-india.org/atal>

Last date of online registration is 10/09/2020. Shortlisted candidates will be informed through their email on 12th Sept, 2020.

Online quiz will be conducted on the last day along with taking feedback and those who score more than 60% marks will be termed as successful candidates. Those who have attendance 80% or more and also score more than 60% in the test will be issued a digital certificate by the ATAL Academy.

For more information please visit the website: <https://www.aicte-india.org/atal>

Address for correspondence

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Important Dates

Date of Event : 14th Sept. – 18th Sept. 2020

Registration Closed : 10th Sept. 2020

**Selection/intimation to the participant
(Through Email only): 12th Sept. 2020**