

One Week Short Term Course

On
**Research Trends in Machine Learning and
IoT**
(RTMI-2021)

From: March 15-19, 2021



Organized by

Department of Computer Science & Engineering
Motilal Nehru National Institute of Technology
Allahabad
Prayagraj-211004, Uttar Pradesh, India

THE INSTITUTE

Motilal Nehru National Institute of Technology Allahabad is a premier National Institute of Technology (NIT) in India. It is committed to achieve quality and excellence in academic pursuits. Established in 1961, as a Regional Engineering College, a joint enterprise of Government of India (GOI) and Government of Uttar Pradesh, the institute was transformed into NIT on June 26, 2002. With the enactment of NIT Act-2007, the Institute has been granted the status of institution of national importance w.e.f. August 15, 2007.

The Institute offers various undergraduate and postgraduate programmes such as B.Tech. M.Tech. MCA, MBA, M.Sc., M.S.W and Ph.D. It has been recognized by GOI as one of the Quality Improvement Programme (QIP) centre for Ph.D. programs.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

For the first time in India under graduate course in Computer Science and Engineering was offered in 1977 under Electrical Engineering Department with a modest strength of 10 students. The department came into its independent existence on February 6, 1996. The Department of Computer Science & Engineering offers courses leading to a Bachelor of Technology in Computer Science & Engineering and Bachelor of Technology in Information Technology. It also offers a Master of Technology in Computer Science & Engineering, Master of Technology in Software Engineering, Master of Technology in Information Security, and Master of Computer Application (M.C.A.). Further, the department enrolls candidates for Ph.D. program.

PRAYAGRAJ

The city of Prayagraj (Allahabad) is among the larger cities of Uttar Pradesh. It is situated at the confluence of three rivers- Ganga, Yamuna and the mythological Saraswati. Besides Sangam, it also has many governmental institutions which include Allahabad University, HRI, IIIT Allahabad, High Court of UP, AGUP, CDA Pension, State Government education board and various tourist places like Anand Bhawan, Khusroo Bagh, Chandra Shekhar Azad Park and Bharadwaj Park.

COMMITTEE

ORGANIZING COMMITTEE

Patron

Prof. Rajeev Tripathi, Director, MNNIT Allahabad

Chairman

Prof. D. S. Kushwaha, Head, CSED

Course Coordinators

Prof. M. M. Gore, CSED
Dr. Pragya Dwivedi, CSED
Dr. Navjot Singh, CSED
Dr. Dinesh Kumar, CSED

Student Coordinators

Ms. Sakshi Agarwal, CSED
Mr. Bharat Krishan Mahaur, CSED
Mr. Prateek Pandey, CSED

ADDRESS FOR COMMUNICATION

Co-ordinator RTMI-2021

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E-mail: rtmi2021@gmail.com

For any further information / assistance you may contact following student co-ordinators:

1. Mr. Bharat Krishan Mahaur, CSED (9565637807)
2. Mr. Prateek Pandey, CSED (8989271716)

INTRODUCTION

This course is aimed to have an extensive discussion on the research trends in machine learning and Internet of things. Machine learning is concerned with the study of computer algorithms that optimize their performance through the learning. The learning becomes better with time using experience. The capability of learning is related to most of the aspects of intelligence. The same has been established as a major component for many software systems. Many automated computer programs have been invented to create spam filters, optimize energy costs based on particular usage pattern, analyze customer behavior based on transactional data or provide useful information to users based on their preferences. IoT as an emerging paradigm supports integration, transfer, and analytics of data generated by smart devices (e.g., sensors). This course aims to identify potential research directions and technologies that will facilitate insight generation in various domains from science, industry, business, and consumer applications.

TOPICS TO BE COVERED

- Supervised learning methods
- Unsupervised learning methods
- Reinforcement learning methods
- Deep Learning
- Fog and Edge Computing
- IoT Ecosystem, concepts and Architecture
- Applications in Computer Vision, Recommender Systems, Internet of Things, etc.

WHO SHOULD ATTEND

The audience will include Faculties, Industry Personnel, PhD scholars, students enrolled in M.Tech. and B.Tech. Programme, who are interested in pursuing research in Machine Learning and IoT. This course will be of value to students, researchers, faculties as well as Industry Executives.

RESOURCE PERSONS

From Various IITs, NITs, and IT Industry and other eminent institutions.

IMPORTANT DATES

Receipt of Registration form - 10/03/2021

Selection Notification - 12/03/2021

REGISTRATION

The short term course will be **free of cost** and conducted in **online mode**. The participants can download Registration Form available on the MNNIT Allahabad web site or otherwise can use the registration form available of this pamphlet. Completed registration form should be send through **E-mail (rtmi2021@gmail.com)** on or before March 10, 2021. A maximum of 100 participants shall be considered on the basis of first come first served. The selected applicants will be intimated by E-mail on or before March 12, 2021 along with the details of online platform.

REGISTRATION FORM

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Date: March 15-19, 2021

Name (in Block Letters) _____

Date of Birth _____ **Gender:** _____

Highest Qualification: _____

Organization: _____

AICTE Approved Yes/No

Designation (Faculty / Research Scholar / Student / Industry Personnel)

Experience: ____ Years ____ Months

Correspondence Address:

City: _____ **Pincode:** _____

Phone _____

E-mail _____

(Signature of Applicant)