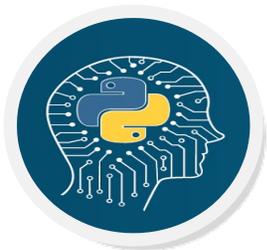


Self-Sponsored

e-Workshop on

**Machine Learning and Cloud
Computing (MLCC-2022)**



October 15-19, 2022



**DEPARTMENT OF MATHEMATICS &
SCIENTIFIC COMPUTING
NATIONAL INSTITUTE OF TECHNOLOGY
HAMIRPUR 177005 (H.P.)**

Patron
Prof. H. M. Suryawanshi
Director

Chairman
Dr. Pawan Kumar Sharma
Head of the Department,
Mathematics and Scientific Computing

Convener
Dr. Pawan Kumar Sharma

Coordinator (s)
Dr. Nidhi Gupta
Dr. Rifaqat Ali

Treasurer
Dr. Nidhi Gupta

Organizing Committee
**All Faculty and Staff Members of Department of
Mathematics and Scientific Computing,
NIT Hamirpur**

Address for Correspondence
**Department of Mathematics & Scientific
Computing, National Institute of Technology
Hamirpur, Himachal Pradesh – 177005, India**

Contact
Phone: +91-7985275540, +91-8958656825
Web: <http://www.nith.ac.in>

BACKGROUND: This workshop aims where researchers can discuss and meet the newest in machine learning and IoT security applications. The main focus of this workshop is to discuss the current status of these technologies and to let audience be aware with recent advancements and research works in India and across the world.

OBJECTIVES: In the current era of digitalized world, machine learning and IoT security plays an important role in the engineering, management, and all applied sciences. Recent advancement in application-based algorithms is compelling the researchers and users for learning and understanding these technologies for modelling and simulating the data from real-time experiments. The major objective of this short-term course is to provide lectures and training on the applications of machine learning and IoT based security applications on real platform. The participants will learn the fundamental methodology of these along with the hand on sessions on python. At the end of the course, participants will also be trained to develop small project for basic computer vision classification problem using machine learning techniques as well as will be trained to develop the idea of security in cloud computing.

COURSE CONTENTS: Machine Learning, Artificial Intelligence, Classification, Linear Regression, Genetic Algorithms, Classification using LSTM, SaaS, Storage As-a-Service, Semantic Segmentation, Cloud Computing, IoT Devices, Programming on Real Time Examples.

WHO SHOULD ATTEND: Science and Engineering Students, Researchers, Faculties, Industry and Practicing Engineers, Scientists in R&D Labs.

HOW TO APPLY: The interested candidates must deposit the non-refundable registration fee through SBI collect with the following procedure:

Go to SBI collect and choose **Himachal Pradesh** as the state of Institution and type of Institution as an **Educational Institute**.

Choose **NIT Hamirpur** from Name of the Institutions and Select payment category as **WORKSHOP FDP STC CONFERENCE**.

<https://www.onlinesbi.com/sbicollect/icollecthome.htm>

Generate the payment slip and attach it with the registration form available at the following link.

<https://forms.gle/ycQ6JvncFS1dotbS6>

NOTE:

Venue: Through Google Meet. The link for the online course will be shared through email to the registered participants before one day.

REGISTRATON FEES: Registration is compulsory for all the delegates.

Students (UG/PG/Ph.D.): Rs. 300/-

Participants from Academia/R&D Labs: Rs. 500/-

Participants from Industry: Rs. 800/-

Last Date of Registration: October 10, 2022

NO. OF PARTICIPANTS: A maximum of 40 participants will be considered for this training programme. Application will be accepted on first-cum-first serve basis.

ABOUT HAMIRPUR: Hamirpur is surrounded by various famous temples of historical importance such as Jwalaji, Chintapurni, Chamunda Devi, Deoth Sidh, Baijnath etc. Dharamshala, McLeodganj a hill resort is about 80 kms from Hamirpur. During March the weather is pleasant and temperature is about 25°C.

CERTIFICATE: E-certificate will be given to the participants having at least 80% attendance after successful completion of the course.

RESOURCE PERSONS: Experts from premier institutes like IITs, NITs, and IIITs will deliver lectures, followed by interactive hands-on sessions by Industry person on the subjects.

DEPARTMENT OF MATHEMATICS & SCIENTIFIC COMPUTING: The department of Mathematics & Scientific Computing came in to existence from August 1, 2009. Earlier, this department was the part of department of applied sciences & humanities, which came in to existence in 1986. The department is supported by potential and devoted faculty members. The research potential of faculties of this department is witnessed through published books, research papers in journals of both national and international repute and sponsored projects funded by various funding agencies such as CSIR, DST, UGC and MHRD. Also, the faculty has the credit of successful guidance of PhD scholars in addition to imparting teaching to B.Tech./B.Arch., MTech & M.Sc. classes of different disciplines. The department is equipped with ultramodern infrastructural, computing and R&D facilities.

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR: The institute came into existence on August 7, 1986 as Regional Engineering College Hamirpur in Hamirpur, Himachal Pradesh, India. It was a joint enterprise of the Government of India and the Government of Himachal Pradesh. On June 26, 2002, the institute was awarded the status of deemed university and upgraded into a National Institute of Technology. As a result of this transition the institute came under the sole purview of the Government of India. It was awarded the status of Institute of National Importance by an Act of Parliament along with other NITs and IITs. NIT Hamirpur has been ranked as best NIT in terms of infrastructure by the World Bank in 2007. The Institute provide undergraduate, postgraduate and doctorate education in engineering, sciences & humanities; fostering the spirit of national integration among the students, a close interaction with industry and a strong emphasis on research, both basic and applied. For more detail please visit: <http://www.nith.ac.in>.

Note: Application submitted through Google Form along with SBI collect receipt generated after online payment, must reach the coordinators on or before **October 10, 2022**.

Contact Person:

Dr. Nidhi Gupta

Email: nidhi@nith.ac.in

Mob: +91-7318308353, +91-7985275540

Dr. Rifaqat Ali

Email: rifaqatali@nith.ac.in

Mob: +91-8958656825, +91-8521868026