

## About the Department

The Department of Computer Science and Engineering at the National Institute of Technology Hamirpur was established in 1989. The mission of the Department is to impart high quality graduate and undergraduate education and carry out leading edge research in various disciplines of Computer Science & Engineering. The Department offers B.Tech, M.Tech and Dual-Degree programs. The Department also offers Ph.D. programs on Cloud Computing, Machine Learning, Computer Vision, Network Security, Wireless Sensor Networks and various other domains of Computer Science. The Department is actively involved in organizing various technical events, expert talks and workshops for all round development of its students and faculty members. The Three Days National level workshop on “Advances in Artificial Intelligence & Machine Learning (AI-ML 2K19)” is primarily sponsored by the Interdisciplinary Cyber Physical System (ICPS) division of Department of Science & Technology (DST), Govt. of India.

## About Institution

The National Institute of Technology Hamirpur (NITH) is an institute of National importance. The institute came into existence in 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 26th June 2002, the institute was awarded the status of deemed university and upgraded into a National Institute of Technology. NIT Hamirpur was ranked 60<sup>th</sup> in the Engineering domain in MHRD’s National Institutional Ranking Framework

(NIRF) 2019. The institute offers B.Tech, M.Tech, Dual Degree and Ph.D. programs in various disciplines of Engineering, Humanities and Sciences.

The Institute provides Undergraduate, Postgraduate and Doctorate programs in Engineering, basic 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>

## Important Dates

- Application Notification: July 10, 2019.
- Last Date for Application: August 05, 2019
- Commencement of Workshop: August 10,2019

## Contact details

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## DST Sponsored Three days Workshop

on

### “Advances in Artificial Intelligence and Machine Learning”

10<sup>th</sup> to 12<sup>th</sup> August 2019

#### Chief Patron

Prof. Chandra Shakher  
(Chief Patron, BOG)

#### Patron

Prof. Vinod Yadava  
(Director, NITH)

#### Chairperson

Dr. Kamlesh Dutta  
(HoD, Dept. of CSE, NITH)

#### Coordinators

Dr. Basant Subba  
Dr. Prakash Choudhary



#### Organized by

Department of Computer Science & Engineering  
National Institute of Technology Hamirpur  
H. P. , Hamirpur - 177005

## About the AI-ML Workshop

The Department of Computer Science and Engineering at the National Institute of Technology Hamirpur is organizing a three days National level workshop on “Advances on Artificial Intelligence and Machine learning” (AI-ML workshop) from 10<sup>th</sup> - 12<sup>th</sup> August 2019. The workshop is technically supported and sponsored by ICPS division of Department of Science and Technology (DST), Govt. of India. Distinguished academicians, faculty members, research scholars, undergraduate and graduate students are invited to participate in the workshop.

The workshop will cover both introductory as well as advance topics on Artificial Intelligence & Machine learning and discuss their applications across wide range of domains. Eminent speakers from academia and industries will deliver keynote lectures in the workshop. The workshop will also have practical demonstration and hands on sessions on live Machine Learning projects for the participants. More details about the workshop can be obtained using the following URL: <https://tinyurl.com/yy2qjdmu>

## Objectives

The primary objective of the AI-ML workshop is to provide participants with understandings of various methodologies, techniques and tools related to Artificial Intelligence and Machine Learning. The AI-ML workshop will bring together experts from various domains to explore the current state of the art applications in Artificial Intelligence and Machine Learning, approaches for developing Artificial Intelligence and

Machine Learning technologies for various domains such as Network Security, Computer Vision, Speech Processing etc. The hands on session of the workshop will cover the following topics:

### Topics

- **Application of AI & ML tools to build and evaluate predictors.**
- **Application of ML algorithms like Logistic Regression, k-Nearest neighbours, SVMs, Decision Trees, Neural Networks, Ensemble methods etc. to search for patterns in data.**
- **Data cleaning and preprocessing.**
- **Dimensionality reduction techniques namely PCA and auto-encoder**
- **Application of CNNs for computer vision problems**
- **Generative Adversarial Networks (GANs) and Auto Encoders**
- **Modeling and deployment of AI and ML based applications in real time**

## General Information

- Maximum Number of participants allowed: **50 (First Come First Serve basis)**
- Registration Fee: **Nil**
- Free accommodation in the campus hostels.
- Free breakfast, lunch, evening snacks & dinner will be provided to the participants during the workshop.
- Rs 1000 as caution money for the registration (\*refundable after the workshop)

- Participants should bring their own laptops.
- Travelling allowance of upto Rs. 2500 per participant for attending the workshop.

## How to Reach

**Road Link** The campus is situated at Anu in Hamirpur district of Himachal Pradesh and is 3 Kms from main bus stand of Hamirpur on (NH-70). The city of Hamirpur is well connected with the rest of the country by road. Hamirpur is at a distance of about 480 Kms from Delhi.

**Rail Link** Nearest broad gauge train head is at Una (Himachal Pradesh), at a distance of 80 Kms from Hamirpur. Una is well linked to all parts of India and journey is of nine hours from Old Delhi Railway Station. Taxi/Bus services are available from Hamirpur to Una. To find details about train service from different cities towards Una, visit <http://www.indianrail.gov.in/>

## Nearest Airport

- Gaggal (Dharamshala) about 85 Kms from Hamirpur.
- Chandigarh about 220 Kms from Hamirpur. <http://www.airindia.in>

### How To Apply

Interested candidates can apply by filling the google form available in the link given below: <https://tinyurl.com/y21dszo7>