



Online Training Program on  
Deep Learning and Applications

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<http://academymnit.wordpress.com>

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**Preamble (Electronics & ICT Academy)**

Government of India had announced a National Policy on Skill Development, which has set a target of skilling 500 million people by 2022 in the domain of Electronics & IT. Under the plan scheme of "Digital India Manpower Development". MeitY has set up seven (07) Electronics and ICT Academies as a unit in 03 IITs, 03 NITs and 01 IIIT with an objective of faculty/mentor development/up gradation in the areas related to Electronics & ICT leading ultimately to improved employability of graduates/diploma holders. MNIT Jaipur has set up such an academy for providing specialized training to faculty and industry persons in the states/UTs of Rajasthan, Gujarat, Daman & Diu, Dadra Nagar Haveli.

**(A) Issues-**

1. IT Hardware and Electronics Manufacturing industry- availability of properly trained, skilled and qualified manpower
2. Number of quality PhDs generated in IT / Computer Science is very low
3. In E & ICT domain- there is a very high degree of obsolescence of existing technologies and faster emergence of newer technologies

**(B) Approach-**

1. A focused faculty training/updation programme for IT, Electronics and related sectors
2. Spreading up and continuous updation regarding Emerging Technology
3. Training and consultancy services for Industry
4. Design, Develop and Deliver specialized modules for specific research areas and Industry
5. Providing advice and support for technical incubation and entrepreneurial activities

An intensive two-week online certification programme is being organized jointly by MNIT Jaipur, PDPM IITDM Jabalpur, NIT Patna and IIT Guwahati for the faculty of engineering and technological institutions. It is also open to persons from industry and doctoral students of Indian organizations. This workshop will cover fundamentals of image processing and computer vision (CV), Artificial Intelligence (AI), Machine Learning (ML), Deep Learning (DL) and Convolutional Neural Network (CNN). Eminent experts from IIT/NIT/Industry and prestigious foreign universities would be conducting online lab and training sessions

**Experts/Speakers-**

- 1) Prof. Aparajita Ojha, IIITDM Jabalpur
- 2) Dr. Sriparna Saha, IIT Patna
- 3) Dr. Santosh Kumar Vipparthi, MNIT Jaipur
- 4) MATLAB Team

**Course Content:**

Module 1: Introduction to deep learning
Module 2: Deep Convolutional Neural Networks and Applications in classification, object detection
Module 3: Moving object detection, emotion detection, semantic segmentation using CNN
Module 4: Recurrent neural networks for natural language processing, machine translation, image captioning etc.
Module 5: Autoencoder, Generative Adversarial Networks and their applications
Module 6: Python programming, Tensorflow and Keras for implementation of deep learning algorithms
Module 7: Research trends in deep learning

**Programme Coordinators:**

Dr. Santosh Vipparthi	<a href="mailto:skvipparthi@mnit.ac.in">skvipparthi@mnit.ac.in</a>	9549658135 (M)
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**Registration:**

Registration is open to graduate, postgraduate and doctoral students, faculty and industry persons. Participants will be admitted on first-come first-served basis.

Details of the programme- [http://www.mnit.ac.in/eict/acad\\_training\\_prg.php](http://www.mnit.ac.in/eict/acad_training_prg.php)  
Register online at- <http://online.mnit.ac.in/eict>

**Registration Fee:**

**Academic (student/faculty): 500/-, Industry/Others: 1000/-**

- (A) Fee once paid will not be refunded back; it may only be adjusted in future courses upon prior request.
- (B) The fee covers online participation in the programme, comprehensive tutorials, practice notes & certification charges.
- (C) The organizers should receive the fee through online payment gateway provided at the registration portal.

→For any other query, email us at [academy\[AT\]mnit.ac.in](mailto:academy[AT]mnit.ac.in)