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One Week Workshop
On

Advance Computing Technologies

Date: 7th Feb, 2022 – 11th Feb, 2022

Objective: As we know that an immense advancement has been recently seen in the technologies relating to the computing and computer domain. Machine Learning, Deep Learning, Artificial Intelligence, Signal Processing, Cyber Physical System, Internet of Things (IoT) are few to name. The workshop is aimed at imparting knowledge and training on these advance technologies through practical hands-on with advance **MATLAB tools**. Hands-on sessions will be done by experts from **MathWorks and DesignTech Pvt Ltd**. Participants will explore and learn about the theory and practical details on above mentioned technologies. Hands-on sessions will be the most benefitting components of this workshop. Content covered is useful for participants from other engineering branches too, like Electronics and Electrical Engineering.

The workshop will be conducted in online mode.

Registration form link: <https://bit.ly/3rvLfb7>

Course Contents:

- Introduction to MATLAB & Simulink
- Machine Learning & Deep Learning Basics
- MATLAB tools for ML & DL Implementation
- Transfer Learning Approaches
- Signal Processing on MATLAB
- FIR & IIR Filter design
- Communication System Design
- Introduction to IoT & Control System
- Modelling of Multi Domain System
- Working on Hardware and ThingSpeak

Resource Persons

- Professors from IITs, IIITs, NITs
- MATLAB Experts from MathWorks
- Faculty from MNNIT Allahabad

Organizing Committee

Patron

Prof. Rajeev Tripathi, Director, MNNIT Allahabad

Chairman

Prof. D. S. Kushwaha, Head, CSE Dept.

Course Coordinators

Dr. Dushyant Kumar Singh, CSED
Prof. D. S. Kushwaha, CSED

Course Convener

Dr. Vibhav Prakash Singh, CSED

Contact

E-mail: wact2022@gmail.com

Student Coordinator: Mr. Aquib Ansari (+91-8299162609)



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

Tentative Schedule

- There will be two sessions per day

Session Date	1 st Session (11:15 AM – 12:45 PM)	2 nd Session (03:30 PM – 05:00 PM)
7 February 2022	Inauguration	Expert Training Sessions by MathWorks Experts
8 February 2022	Expert Sessions from Academia	Introduction to MATLAB and Simulink
9 February 2022	Machine Learning Basics Towards Deep Learning DNN for Computer Vision	Signal Processing and Communications System Design with MATLAB & Simulink
10 February 2022	Overview of different DNN Architectures Technology Perspectives of Internet of Things and Cyber Physical Systems	Machine Learning and Deep Learning with MATLAB Introduction to IOT and Control System Design with MATLAB & Simulink
11 February 2022	Valedictory	