

# Workshop-cum-Training Program - 2019

On

## Recent Trends in Computer Science

Date: 10th June, 2019 – 05th July, 2019

### Objective

This event is a workshop-cum-training program spanning across 4 week time. Training is provided through two on-campus workshops of one week each and one at-home two week project assignment. Participation is optional to even one workshop. Workshops are designed to disseminate introductory and advanced knowledge of Image/Video Processing and other Computational domains. Various problems of the Computer Vision, Machine Learning, Optimization, Cloud and IoT will be explored and will be learned & exercised for their solutions. Learning will start from fundamentals and expand to very recent knowledge of the domains. The interdisciplinary nature of all these domains will also be covered. This will be helpful to the every class of participants whether U.G. / P.G. / PhD or faculty members. Workshop's will give insight of research dimensions and spaces of specified domains.

Python and MATLAB will both be utilized for lab practice sessions.

### Workshop on Image & Video Analytics (WIVA)

- Image and Video Acquisition and Representation techniques
- Feature Extraction and pre-processing.
- Image Enhancement and Filtering techniques
- Image Segmentation, Annotation, Search and Retrieval
- Video Segmentation, Object Detection & Tracking
- Computer and Machine Vision
- Human Machine Interaction

### Workshop on Computational Intelligence (WCI)

- Introduction to Artificial Intelligence
- Machine Learning Approaches and Applications
- Deep Learning, CNN, RNN, LSTM
- Optimization & Nature Inspired Algorithms
- Cloud Computing
- Internet of Things

### Resource Persons

- Professors from IITs, IIITs, NITs
- Experts from Industries
- Faculty from MNNIT Allahabad

### Course Coordinator's

Dr. Dushyant Kumar Singh  
Dept. of CSE, MNNIT Allahabad

Prof. Dharmender Singh Kushwaha  
Dept. of CSE, MNNIT Allahabad



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### Important Date

Registration Deadline : 25<sup>th</sup> May 2019

### Registration Fee (18% GST inclusive)

For single workshop

U.G. Students (MNNIT)	2360/-
U.G. Students (outside)	2950/-
P.G., PhD and Others	3540/-

For both workshop

U.G. Students (MNNIT)	4130/-
U.G. Students (outside)	4720/-
P.G., PhD and Others	5900/-

*\* No additional fee for the complete training program (only UG students eligible), if attending both workshops.*

Registration fee shall be submitted only through NEFT, details are:

A/C Name: **WCTP**                      A/C Number: (soon be informed)  
Bank Name: **Vijaya Bank**            Bank Branch: **MNNIT Allahabad**  
IFSC Code of Branch: **VIJB0007184**

### Contact

E-mail: [wctp.cs@gmail.com](mailto:wctp.cs@gmail.com)

Student Coordinator's:

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### Course Convener's

Dr. K. K. Mishra  
Dept. of CSE, MNNIT Allahabad

Dr. Navjot Singh  
Dept. of CSE, MNNIT Allahabad