

TEQIP III

Sponsored
One Week Online Faculty
Development Program
on

"Machine Learning in Digital Image
Processing"

04 to 08 January, 2021



Organized by:

Computer Science & Engineering
Department
Govind Ballabh Pant Institute of
Engineering & Technology,
Pauni Garhwal,
Uttarakhand

About GBPIET

Govind Ballabh Pant Institute of Engineering and Technology is an autonomous institution of the Government of Uttarakhand for higher technical education. It is located in Ghudauri of Pauni Garhwal district, in the north Indian state of Uttarakhand. The institute was established in 1989 and named after the memory of the first Chief Minister of Uttar Pradesh, and Bharat Ratna recipient Pandit Govind Ballabh Pant.

The Institute started its first academic session from 1991-92 with a limited intake. It was affiliated to the Hemwati Nandan Bahuguna Garhwal University, Srinagar (Garhwal) at that time. From the academic year 2006-2007, the college got affiliation from Uttarakhand Technical University, Dehradun. The institute offers courses in PhD, MCA, M.Tech, and B. Tech.

Computer Science & Engineering Department

The department of Computer Science and Engineering was established in the year 1992. It has come out a long way on the frontier lines of software research and development. The department keeps itself in pace with the IT changes and regularly updates its laboratories with the latest computing facilities, licensed software and IT infrastructures to give exposure to the students to the state of the art technologies.

Objective of FDP

Digital Image Processing is a growing research field where many revolutionary ideas and efficient algorithms have been developed over the past few decades. This FDP is devoted to address the need to enhance the knowledge about the latest technologies pertaining to Machine Learning and its applications, related issues, challenges and research perspectives in the domain of Digital Image Processing

The integration of advanced Machine Learning techniques with image processing will open a new door of opportunities for multidisciplinary research. There are huge applications of Machine Learning and image processing in real world. The objective of this FDP is to:

- Introduce the participants to the world of Machine Learning in Digital Image Processing.
- Provide a platform for the faculties and researchers to update their knowledge and explore various research opportunities and challenges in this field.



Who can Participate

Faculty members of UGC/AICTE recognized Universities and Engineering colleges all over India, research scholars (Ph.D. only), students and industry personals. However, priority will be given to the faculty members.

Course Content

- Applications of Machine Learning and Computer Vision in Security and Surveillance.
- Gait Recognition from Video Data Analysis.
- K-Means, Mixture Models and the EM Algorithm.
- Big Image Data Processing using Deep Learning.
- Machine Learning in satellite image processing: Opportunities and Challenges.
- Fundamentals of Deep Learning.
- A case study of image processing using Deep Learning.
- Machine Intelligence in healthcare.

Resource Persons

- Prof. Rajeev Srivastava, IIT BHU
- Prof. S. K. Ghosh, IIT Roorkee
- Dr. Tapan K. Gandhi, IIT Delhi
- Dr. Sumantra Dutta Roy, IIT Delhi
- Dr. Partha Pratim Roy, IIT Roorkee
- Dr. U. S. N. Raju, NIT Warangal
- Dr. Rashmi Saini, GBPIET Pauri, Garhwal
- Dr. Pratik Chattopadhyay, IIT BHU

Registration Process

- There is **no registration fee** for the FDP.
- Link for registration:
<http://bit.ly/3nCzHPX>
- The brochure of the program may be downloaded from the institute website
www.gbpec.ac.in
- Last date of registration: **02.01.2021**
- Seats are limited and the selection will be done on first-cum-first-serve basis.
- Link for joining Whatapp:
<http://bit.ly/2J79yKa>

Certificates

- The e-certificates will be awarded to the participants on successful completion of the FDP.

Contact Persons

- Mr. Ashwini Kumar Saini [**9411104117**]
ashu82004@gmail.com
- Mr. Vivek Kumar Tamta [**9997806487**]
vivek.tamta2010@gmail.com



Patron

Prof. Mahipal Singh Chauhan, Director,
GBPIET, Pauri

Convenor

Prof. H. S. Bhadauria, CSED, GBPIET

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Dr. Bhola Jha, TEQIP Coordinator
Mr. Sandeep Kumar, Registrar GBPIET

Coordinator

Dr. Rashmi Saini, CSED, GBPIET

Co-coordinators

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Ms. Garima Singh
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