

ABOUT DWARAHAT

Dwarahat - Town of Temples

The peaceful town of Dwarahat is nestled in the ravishing Kumaon hills of Uttarakhand. It is perched at an elevation of 1,510 metres above sea level in the Almora district of Uttarakhand. Dwarahat literally suggests the 'Way to Heaven' in local language. It is famous for the ancient temples constructed by the Katyuri kings. The architecture of these temples is similar to that of the Gurjari School of Art.

BIPIN TRIPATHI KUMAON INSTITUTE OF TECHNOLOGY, DWARAHAT

Bipin Tripathi Kumaon Institute of Technology (Formerly Kumaon Engineering College) is an autonomous Institute in the state of Uttarakhand established by the then Government of Uttar Pradesh in year 1991. The Institute is fully financed by the State Government. The institute offers B. Tech. Degree in 7 disciplines, M., Tech. Degree in 3 branches, MCA course and Ph. D. Degree in 3 departments. The courses of the institute are affiliated to Uttarakhand Technical University, Dehradun.

DEPARTMENT CSE BTKIT DWARAHAT

The Computer Science & Engineering Departments provides B.Tech CSE, M. Tech. CSE respectively and Ph. D. Degree to serve as the future professionals with ultimate wisdom and knowledge. The department was accredited by NBA-AICTE in 2007. The departments have state of the art laboratories and qualified dedicated team of faculty members for imparting learning and analytical skills to the students.



PATRON

Prof. (Dr.) V. M. Mishra
Director, BTKIT Dwarahat

CONVENER

Dr. Ajit Singh
Professor & Head
Dept. of Computer Science & Engineering

CORDINATOR

Dr. Sachin Gaur
Assistant Professor
Dept. of Computer Science & Engineering

CO-CORDINATOR

Dr. Kapil Chaudhary
Assistant Professor
Dept. of Computer Science & Engineering

IMPORTANT DATES:

- Last date for online registration is **24th Sep, 2020.**

Link for registration

<https://forms.gle/gMsbrCqTAzComu9D8>

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TEQIP-III Sponsored



One Week Online Faculty Development Programme

On

Advanced Research Trends in Artificial Intelligence, Pattern Recognition and Image Processing

(Sep 25 - Sep 30, 2020)

Organized by



Department of Computer Science and Engineering

B. T. Kumaon Institute of Technology Dwarahat -263653, Almora, Uttarakhand

Website-<http://kecua.ac.in>

COURSE OBJECTIVES

This course has been designed to familiarize the researchers and engineers working in the field of computer vision, signal and image processing and also in the area of wireless communication engineering, by using Machine Learning Techniques. Machine Learning is a method to approach problems; it is an orthogonal concept to image processing and computer vision. Besides, the course will also expose the Faculty/ Research scholar/Students in the emerging technologies in the area of Data Science & Analytics. The course promotes multidisciplinary R&D related to image and pattern analysis. The FDP aims to advances research trends in image processing, future perspective of medical image processing, its application and research, image enhancement and segmentation techniques. The course will benefit participants from academics, R&D institutions, professional engineers from utilities, and research scholars at masters and PhD programs in the area of image processing.

COURSE CONTENTS

The course aims to address the following issues related to the modern power systems, but not limited to them. The objective of the course is to share with the participants technology developed on:

- Introduction about machine learning, Types of learning algorithms, Supervised & Un-supervised learning methods, Partitioned and hierarchical clustering methods, Bayesian learning, decision tree based classification methods, Hands on to implementation of supervised and unsupervised methods, Support vector machine classification and application, Neural networks and practical implementations, Hands on to implementation of medical image data processing and analysis, ML in Biometrics, Application of Biomedical Signal Processing
- Deep fake technology and ethics of AI.
- Condition monitoring of machines using AI.

- Information extraction using machine learning techniques on Satellite Data.
- Optimization trends in Artificial Intelligence (Conventional OTS).
- Convolution Neural Network for Natural Language Processing.
- Multi-View Clustering Algorithm.

RESOURCE PERSONS

Dr. Rajender Kumar, NIT Kurukshetra

Dr. Sachin Singh, NIT Delhi

Dr. Abhijit Bhattacharyya, NIT Hamirpur

Dr. Basant Agarwal, IIIT Kota

Dr. O.P Rishi, University of Kota Rajasthan

Dr. Rashmi Saini, GBPIET Pauri

Mr. Mohit Vats (Industry Person), Manager Business Administration Siemens Pvt. Ltd.

Dr. Sharad Saxena, Thapar University, Thapar

Dr. Krishna Kumar Sharma, University of Kota

ADVISORY COMMITTEE

Prof. Jyoti Sexana, Head Biochemical Engg BTKIT Dwarahat (TEQIP Coordinator)

Prof. Anirudh Gupta, ME Department BTKIT Dwarahat

Prof. Satendra Singh, Head ME Department BTKIT Dwarahat

Prof. Ajit Singh, Head CSE Department BTKIT Dwarahat

Prof. Lata Bisht, Head Applied Science BTKIT Dwarahat

Mr. Ansuman Mishra, Head Chemical Engg BTKIT Dwarahat

ORGNIZING COMMITTEE

Dr. Rajendra Kumar Bharti, Associate Prof. CSE Department BTKIT Dwarahat

Ms. Swati Verma Assistant Prof. CSE Department BTKIT Dwarahat

Dr. Vishal Kumar. Assistant Prof. CSE Department BTKIT Dwarahat

Ms. Anindita Shaha Assistant Prof. CSE Department BTKIT Dwarahat

Ms. Bhawana Parihar Assistant Prof. CSE Department BTKIT Dwarahat

Dr. Archana Verma, Assistant Prof. CSE Department BTKIT Dwarahat

ELIGIBILITY

The program is open to all members of AICTE/UGC affiliated Institutes/Universities i.e. Faculty Members of degree colleges/Research scholar/ industry practitioners.

REGISTRATION (FREE)

FDP is sponsored by TEQIP-III. The registration for the program shall be completed through online registration process. The link for online registration for the FDP: -

Link For registration

<https://forms.gle/gMsbrCqTAzComu9D8>

There is no registration fee for the FDP.