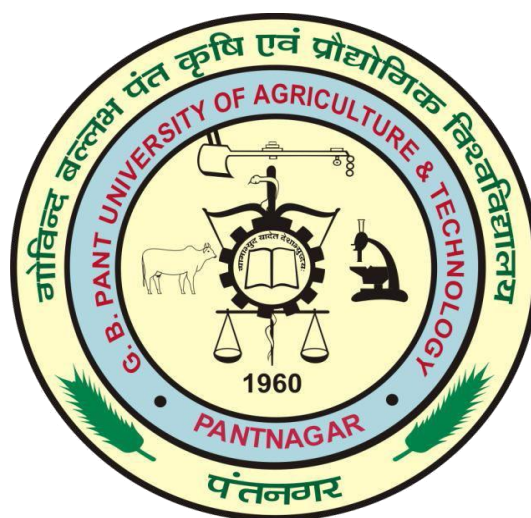


Technical Education Quality Improvement Programme
(TEQIP-III)
Sponsored

Six days Training
On
“Advances in Wireless Networks (AWN-2018)”
During

March 12-17, 2018



Organized By
Department of Computer Engineering
College of Technology
GB Pant University of Agriculture & Technology (GBPUAT)
Pantnagar-263145, Distt. - Udham Singh Nagar
Uttarakhand State

www.gbpuat.ac.in



ABOUT THE UNIVERSITY

G. B. Pant University of Agriculture and Technology (GBPUA&T) is the first agricultural university of India. Pt. Jawaharlal Nehru, the first Prime Minister of India, laid the foundation stone on 17th November 1960 as the Uttar Pradesh Agricultural University (UPAU). Later the name was changed to Govind Ballabh Pant University of Agriculture and Technology in 1972 in memory of the great freedom fighter Govind Ballabh Pant. The University lies in the campus-town of Pantnagar in the district of Udham Singh Nagar in the state of Uttarakhand. The university is regarded as the harbinger of Green Revolution in India. College of Technology is one of the constituent colleges of the University. The G.B. Pant University is a symbol of successful partnership between India and the United States. The university campus is located at a distance of 250 km from Delhi in Udham Singh Nagar district of Uttarakhand. The nearby towns are Rudrapur (16 km), Haldwani (25 km) and Nainital (65 km). Two National Highways- NH 87 and Bareilly-Nainital highway touch the campus.

Two railway stations of North Eastern Railways- Pantnagar (PBW) and Haldi Road (HLDD) are located in the campus at a distance of 4 km (east) and 2 km (west) respectively from administrative building. University shuttle service, local cycle rickshaws, autorickshaws and matador vans connect various parts of the campus. The weather is normal at Pantnagar during March and stay will be very much enjoyable in this location, which is rich in flora and fauna.

COLLEGE OF TECHNOLOGY

The **College of Technology** one of the constituent colleges of the University was established in 1966. Its eleven departments offer eight B. Tech Degree Programs namely Agriculture, Civil, Computer, Electrical, Electronics & Communication, Information Technology, Mechanical Engineering and Industrial & Production Engineering. In addition to it, the College offers 24 post graduate programs including a self financed MCA program. The College of Technology, an ISO 9001:2000 certified institution, is privileged to have a well qualified and experienced faculty with judicious mix of creative, talented and committed academicians. All the programs of study are approved by AICTE and accredited by the National Board of Accreditation. The College is the lead institute in Uttarakhand in the World Bank project for Technical Education Quality Improvement Programme (TEQIP-III). The college is proud of its infrastructural facilities befitting to modern technological needs.

DEPARTMENT OF COMPUTER ENGINEERING

The **Department of Computer Engineering**, College of Technology offers B.Tech. (Computer Engineering) and M.Tech. (Computer Engineering) programs. The B.Tech (Computer Engineering) Programme was started in 1984 in the erstwhile department of Electrical Engineering. In 1993 the Computer Engineering department gained independent existence through the trifurcation of the Electrical Engineering Department. M.Tech. Programme was started in the Department in the year 2011. The Department is housed in a beautiful Complex having Classrooms, Faculty rooms, Lab Complex, Seminar Rooms and Computer Centre etc. Ever since it's inception the department has set high standards for itself. Both the faculty members and students continuously strive to achieve the set objectives.

TEQIP-III PROJECT

The Technical Education Quality Improvement Program (TEQIP) a World Bank funded project is in operation in various institutions of the country to enhance the quality of Technical Education. It is currently operating in III phase. College of Technology is the lead institute of Uttarakhand under this project. The College has got appreciation on the basis of its performance in TEQIP at the national level.

HOW TO REACH

Pantnagar is about 250 kilometers from Delhi, 360 kilometers from Lucknow, 90 kilometers from Moradabad, 75 kilometers from Bareilly and 65 kilometers from Nainital by road. It is connected to the rest of world by the Delhi Nainital National Highway and the Bareilly Nainital Highway. A large number of state and interstate buses run on these roads. Two railway stations of North Eastern Railways- **PANTNAGAR (PBW)** and **HALDI ROAD (HLDD)** are located in the campus at a distance of 4 kms (east) and 2 kms (west) respectively from administrative building. Further, **LAL KUA- (LKU)** is the nearby junction situated at a distance of 8 kms from the campus.

Places of interest:

Nainital, Binsar, Sattal, Bhimtal, Ranikhet, Almora, Bhowali, Poornagiri, Nanakmatta and Jim Corbett Park are nearby places of interest in the Kumaun region.

For more details www.kmvn.gov.in or www.uttarakhandtourism.gov.in or www.gmvnl.com
www.irctc.co.in / www.indianrail.gov.in

BACKGROUND

Computer related Technologies are advancing at a very high rate these days. Computer Networks play a major role in popularizing computer and IT Technologies. They provide paths for exchanging the vital information of users. Wireless medium provide extendibility to these computer networks. Wireless devices connect to existing computer network via wireless medium and usually enjoy mobility while in use. There are several kinds of wireless networks like sensor networks, adhoc networks, wireless LANs, broadband networks etc. Owing to this outburst and widespread use of wireless technologies, it becomes imperative for faculty members and students to learn about them.

OBJECTIVES

The short-term course aims to include the following contents with particular emphasis on Cellular Communication, Wireless Sensor Networks (WSNs), Mobile Adhoc Networks (MANETs), Wireless LANs (WLANs), Internet of Things (IoT) etc.

COURSE CONTENTS

The course will provide an insight about the wireless techniques like channel models, routing, handoff, intrusion detection & prevention etc. The various topics that form the major contents of the course are:

Channel Models in Mobile Wireless Networks

Mobile Cellular Communication: Trends and Future Prospects

Radio Frequency Integrated Circuits (RFIC) for wireless networks

Internet of Things

Hand-off in mobile networks

Radio Resource Management in LTE

Mathematics and Simulation of Wireless Networks

Research Issues and Challenges in Wireless Sensor Networks and AdHoc Networks

Information Security

Wireless LAN security: possible attacks & WPA3

Fundamentals of Game Theory

Mathematical modeling of WSN and physical demo of IoT devices

Role of WSN in eHealthcare

Communication for Ambient Assisted Living

Intrusion detection & Intrusion Prevention in Wireless Networks

E-Governance and digital India

VIST WEB SITE FOR MORE DETAILS:

www.gbpuat.ac.in

HOW TO APPLY

Preliminary online registration can be done on www.gbpuat.ac.in

Selected participants are required to submit the completed application form as per the given proforma to the address of communication by March 5, 2018. Advance E-mail applications are preferred in view of postal delay and approx. 25 participants are selected, based on various criteria. Preference will be given to participants from TEQIP-III networked institutions.

ELIGIBILITY

The course is of inter-disciplinary in nature and open to young faculty members and limited number of research scholars from AICTE approved Engineering Colleges, research institutions, universities.

REGISTRATION FEE

A registration fee of Rs. 2000/- for faculty participants and Rs 500/- for student participants to be paid by DD drawn in favour of "Comptroller, GBPUA&T (College of Technology)" payable at Pantnagar at the time of registration.

ACCOMMODATION

All the outstation selected participants will be provided boarding & lodging facility free of charge at the university guest house on availability basis.

TRAVEL SUPPORT

No TA/DA will be paid to the participants to reach Pantnagar and for attending the training.

IMPORTANT DATES:

Last Date for submission of registration form: March 05, 2018

Intimation of selection of participants: March 07, 2018 or earlier (by E-mail only)

Training Programme Dates: March 12-17, 2018

CHIEF PATRON

Dr. A. K. Misra

Vice-Chancellor, G. B. Pant University of Ag. & Technology

PATRON

Dr. H. C. Sharma

Dean, College of Technology

COORDINATOR TEQIP-III

Dr. Arun Kumar

Professor, College of Technology

TRAINING COORDINATORS & ADDRESS FOR COMMUNICATION

Coordinator

Dr Rajeev Singh

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Co-Coordinator

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PROFORMA FOR APPLICATION

Technical Education Quality Improvement Programme (TEQIP-III)

Sponsored One Week Programme

on

“Advances in Wireless Networks (AWN-2018)”

(March 12-17, 2018)

| | | |
|----|---|---|
| 1. | Name (Block Letters) | |
| 2. | Designation | |
| 3. | Name and address of the Institute/College/ University/Organization | |
| 4. | Branch of Specialization with years of experience | |
| 5. | Postal Address for Correspondence E-mail Tele No.(Residence) Tele No.(Office) Mobile No Alternate Mobile No | |
| 6. | Whether accommodation is required University Guest House: | Yes / No |
| 7. | Expected arrival: Expected departure: | Date: March 2018; Time: ____ Date: March 2018; Time: |
| | Place: Date: | Signature |
| 8. | <u>Sponsorship Certificate:</u> Mr/Ms/Mrs/Prof/Dr _____ a faculty/scientist/research scholar of our institute / organization / university is sponsored to attend the TEQIP-III sponsored course on “AWN-2018” during March 12-17, 2018. <div style="text-align: right;">Signature Name and Designation of sponsoring authority with office seal</div> | |

Advance soft copy may be sent to rajeevpec@gmail.com or govindverm@gmail.com
not later than March 05, 2018.