

**One week  
Online  
Workshop  
(Funded by TEQIP-III)**

On

**Automtion and Artificial Intelligence  
in Production Engineering**

**22<sup>nd</sup> -26<sup>th</sup> February, 2021**



**ORGANIZED BY**

**Industrial & Production  
Engineering Department**

**College of Technology, GBPUA&T,  
Pantnagar**

**G.B. Pant University of Agriculture and  
Technology Patnagar-263145, Distt. U.S.  
Nagar, Uttarakhand**

**ABOUT  
G.B.P.U.A.&T.**

After independence, development of the rural sector was considered the primary concern of the Government of India. In 1949, with the appointment of the Radhakrishnan University Education Commission, imparting of agricultural education through the setting up of rural universities became the focal point. Later, in 1954 an Indo-American team led by Dr. K.R. Damle, the Vice-President of ICAR, was constituted that arrived at the idea of establishing a Rural University on the land-grant pattern of USA. As a consequence, a contract between the Government of India, the Technical Cooperation Mission and some land-grant universities of USA, was signed to promote agricultural education in the country. The US universities included the universities of Tennessee, the Ohio State University, the Kansas State University, The University of Illinois, the Pennsylvania State University and the University of Missouri. The task of assisting Uttar Pradesh in establishing an agricultural university was assigned to the University of Illinois which signed a contract in 1959 to establish an agricultural University in the State. Dean, H.W. Hannah, of the University of Illinois prepared a blueprint for a Rural University to be set up at the Tarai State Farm in the

district Nainital, UP. In the initial stage the University of Illinois also offered the services of its scientists and teachers. Thus, in 1960, the first agricultural university of India, UP Agricultural University, came into being by an Act of legislation, UP Act XI-V of 1958. The Act was later amended under UP Universities Re-enactment and Amendment Act 1972 and the University was rechristened as Govind Ballabh Pant University of Agriculture and Technology keeping in view the contributions of Pt. Govind Ballabh Pant, the then Chief Minister of UP. The University was dedicated to the Nation by the first Prime Minister of India Pt Jawaharlal Nehru on 17 November 1960

**ABOUT THE Industrial &  
Production ENGINEERING  
DEPARTMENT**

The department at College of Technology, G.B. Pant University Agriculture & Technology, Pantnagar offers Industrial & Production Engineering program at the Bachelor's levels since July 1984. On May 8<sup>th</sup>, 2013 Department of Industrial & Production Engineering (formerly production engineering) was established with revised courses & addition of new course in UG Program. The curriculum revolves around imparting knowledge of planning, measuring and

controlling all activities within the organization, besides designing the production process for a product. The department blends advanced theory and practices required for the development and management of modern industry. The department is rich in resources, including laboratories necessary for the development and nourishment of skills necessary for an engineer working in industrial scenarios. We earnestly emphasize on a healthy and intimate teacher- student relationship so that the true potential of each student is realized and flourished. The department of IPE aims not only to produce efficient engineers, but also well-educated conscientious leaders who can contribute to the development of the country through ameliorating our industries. The Department feels proud of achievements of its alumni, who have excelled in various walks of life.

### ABOUT THE FDP

Artificial intelligence has been identified as the key enabler for the next generation of smart manufacturing, cities, Healthcare, transportation, education, legal and agriculture. Artificial intelligence leverages the superior computational capabilities of machines that can process large amounts of data, and find patterns and associations through sophisticated algorithms. . The aim of this workshop is to be familiar with Application of data science and machine learning in engineering, Deep Learning, Rapid Prototyping and recent development in robotics.

### ORGANIZING COMMITTEE

#### CHIEF PATRON

**Dr. ALAKANDA ASHOK**

Dean, College of Technology

#### PATRON

**Dr. AJAY**

Head, Industrial and Production Engineering Department.

#### COORDINATOR

**Prof. ANSHIKA GUPTA**

Assistant Prof, IPED

#### CO-COORDINATOR

**Dr. RAJIV SUMAN**

**Er. DEVAKI NANDAN**

**Er. ARVIND PATIDAR**

#### VOLUNTEERS

**Mr. DEEPAK GUPTA**

**Mr. PRAVEEN SINGH**

**Mr. KUMUD JOSHI**

### KEYNOTE SPEAKERS

- **Dr. J. Ramkumar**  
Professor (IIT-Kanpur)
- **Dr. Tharun Reddy**  
Assistant Professor,  
(IIT Dhanbad)
- **Dr. Sanjay Samant**  
Associate Prof. (GBPEC, Pauri)
- **Dr. Rahul Mulik**  
Associate Prof. (IIT-Roorkee)
- **Dr. P. M. Pathak**  
Professor (IIT-Roorkee)

### KEY TOPICS

- ❖ Application of data science and machine learning in engineering
- ❖ Deep Learning
- ❖ Introduction to FEM and Application in Research
- ❖ Introduction to Rapid Prototype and Recent development
- ❖ Introduction to robotics and recent development in robotics

### WHO CAN ATTEND?

Faculty members from Engineering Colleges all over India, Research Scholar (Ph.D., PG and final year UG ) and Industry Personals.

### REGISTRATION PROCESS

**No Registration Fee** is applicable to attend the FDP.

FDP will be organized in online mode on Google Meet platform. Participants need to fill online registration form.

**Registration Link for FDP:**

<https://forms.gle/VwHGPCh1KUnvBURL9>

**Google meet link**

<https://meet.google.com/vep-kuna-nau>

### CONTACT PERSON

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