

## 1-Week Faculty Develop Program (FDP) on

### **INTERNET OF THINGS (IoT) AND REAL LIFE APPLICATIONS (Dec 02-06, 2019)**

Under  
**AICTE Training & Learning (ATAL) Scheme**



**IK Gujral Punjab Technical University**  
Main Campus, Kapurthala-144603 (Punjab)

#### **Chief Patron**

Dr. Ajay Kumar Sharma,  
Vice-Chancellor, IKGPTU Kapurthala

#### **Patron**

Dr. Yadwinder Singh Brar,  
Director, IKGPTU Main Campus

#### **Mentor**

Dr. Satvir Singh,  
Associate Professor & Head ECED

#### **Programme Coordinator**

Dr Rakesh Goyal, Assistant Professor, ECED  
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#### **Organizing Committee**

Dr. Avtar Singh Buttar, Associate Professor (ECE)  
Dr. Satvir Singh, Associate Professor (ECE)  
Dr. Dalveer Kaur, Assistant Professor (ECE)  
Dr. Rakesh Goyal, Assistant Professor (ECE)  
Dr. Amit Gupta, Assistant Professor (ECE)

## **IKGPTU MAIN CAMPUS KAPURTHALA**

It was established as Punjab Technical University in 1997. Subsequently, in 2015 this university is renamed as I.K. Gujral Punjab Technical University by State Government in the honor to Late Sh. Inder Kumar Gujral, Former Prime Minister of India.

University started B.Tech. degree programmes in 2016: Electronics & Comm. Engineering, Computer Science & Engineering, Software Engineering, Computer Engineering, Electrical Engineering, Civil Engineering, and Mechanical Engineering.

The Key features about IKGPTU includes:

- Ranked 96<sup>th</sup> in 2019 NIRF India Ranking.
- Highly experience faculty with Ph.D. degrees.
- 3<sup>rd</sup> in Punjab after IIT Roopnagar & TIET Patiala
- 121 AICTE and 65 UGC affiliated colleges.
- Scholarships for meritorious students and Freeship Schemes for needy students studying in the university campuses.
- Student centric vibrant environment and state-of-the-art infrastructure spread over 78 acres of land
- Internet connectivity, Bank, Post Office, Canteen, Milk booth, Hostels & Transportation Facilities.

## **OBJECTIVES AND SCOPE**

No doubt the knowledge of the teacher is important, but students have access to unlimited knowledge on internet around the clock. Now it's a challenge for teachers, how to teach, guide and supervise the learning of the student in present scenario.

In the recent years advanced technologies have been evolved for solving problems in engineering and sciences and similar fields which often remained intractable to conventional methods. This programs will be helpful in developing basic and practical knowledge of components of Internet of Things through making real-life IoT based projects. It will target to give broad exposure to the research and industrial applicability of all engineering models including Electronics, Computer Science, Electrical, Mechanical and other recent ideas for the faculty members and research scholars to discuss the state of the art applications, perspective of future developments relevant to their field.

## **COURSE CONTENTS**

Followings are some of the key issues to be discussed by the various experts:

1. Introduction to IoT
2. Elements of IoT
3. IoT Application Development
4. IoT Case Studies
5. Projects based on Arduino

## **WHO CAN ATTEND?**

Teachers and researchers from Engineering and Sciences institutes or universities affiliated by AICTE who want to adapt to changing educational and research scenarios.

## **IMPORTANT INSTRUCTIONS**

- No course fee but seats are limited. Participants will be registered & confirmed on first-come first-serve basis.
- Teachers and Researchers can apply online at <http://data.ptu.ac.in/fdpRegn.php> and Printed Application Form duly signed by the Head of the Institute/Department should reach in the Department of ECE, IKGPTU Main Campus, Kapurthala before **26.11.2019**.
- No TA/DA will be given to any participant. However, boarding and lodging at nominal charges will be provided in Hostels on demand.

## **APPLICATION ONLINE**

Candidates are required to register themselves online at <http://data.ptu.ac.in/fdpRegn.php>. Printed Application Form duly signed by the Head of Department/Institute must reach before **26.11.2019** at following address

### **Dr Rakesh Goyal, Assistant Professor**

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I K Gujral Punjab Technical University,  
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