



**One-week**  
**National Level Faculty Development Programme (FDP)**  
**(AICTE & IKGPTU Sponsored )**

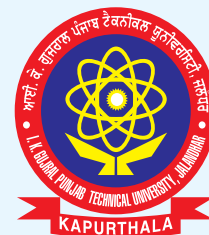


**on**

**Applications of Computing Techniques in  
Sustainable Energy Systems - (ACTSES)**

**(June 15-20, 2022)**

**FDP Coordinators**



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**Organized by**

**Department of Electrical Engineering**

**I. K. Gujral Punjab Technical University- Main Campus**

**Jalandhar - Kapurthala Highway, Distt. Kapurthala-144603, Punjab, India**

**<https://ptu.ac.in>**

## ABOUT THE UNIVERSITY

Punjab Technical University was established by an Act of State Legislature on 16<sup>th</sup> January, 1997, to promote technical, management and pharmaceutical education in the state at degree level and above. It was established as Punjab Technical University and renamed as I. K. Gujral Punjab Technical University (IKGPTU) by State Government in the honor to Late Sh. Inder Kumar Gujral, Former Prime Minister of India.

University has the mandate to set up centres of excellence in emerging technologies and for promoting training, research and development in these areas. University has undertaken the task of training students to help in the development of skilled manpower in this sector in the country in general and in the state in particular. With this goal in mind, the university is promoting a number of courses in different streams in regular as well as distance education programmes. At present, University have 121 AICTE and 65 UGC institutes affiliated with it.

IKGPTU Main campus has a sprawling campus spread over an area of about 78 acres, and is located on the outskirts of Jalandhar at about 10 kms from the bus stand. IKGPTU ranked 96<sup>th</sup> in 2019 NIRF India ranking and 3<sup>rd</sup> in Punjab, after IIT Ropar & Thapar University Patiala. The institute offers 4-year Bachelor Engineering Courses (B.Tech.) in five branches of Engineering, 5-year degree course in Architecture (B.Arch.), M.Tech. and Ph.D. programmes in various specializations.

## ABOUT THE DEPARTMENT

The Department was established in year 2014 in IK Gujral Punjab Technical University Main campus which currently offers **Undergraduate, Postgraduate and PhD programmes in Electrical Engineering**. The department boasts well-equipped laboratories with state-of-the-art technology which provides opportunities to students for hands on experience, thereby helping them in understanding the fundamental aspects. Spacious air-conditioned classrooms and world-class infrastructure caters for an environment where students can learn independently as well as in a team. Our outcome-based curriculum and experiential learning opportunities meet the emerging challenges that graduates face in the field. The department aims to create globally competent engineers with a professional outlook, top notch researchers and highly inspired techno-entrepreneurs.

## OVER VIEW OF THE PROGRAMME

The programme is sponsored by AICTE, New Delhi & IKGPTU, Kapurthala. It is aimed to discuss the recent advancements of computing techniques taking place on the sustainable energy technologies and systems. The major topics to be covered in this programme are (i) Distribution systems, with AC/DC microgrids and smart grids (ii) Renewable energy systems (iii) Power electronics in renewable energy systems (iv) Solar photovoltaic and thermal energy (v) Biomass energy (vi) Wind energy (vii) Grid connected renewable energy systems, (viii) Energy storage and electric vehicles (viii) Power quality analysis using various simulation tools, and (ix) Innovative and future research directions on renewable energy technologies. Experts from the different reputed academic institutes, research laboratories and industries will be invited to deliver the various aspects of the programme. Apart from the invited experts, faculties of IKGPTU having expertise in the different areas related to the programme will also deliver lectures. The certificates will be awarded on the successful completion of the programme.

## MAJOR OBJECTIVES

The major objective of this faculty development programme is to impart knowledge about the latest computing techniques for sustainable energy systems to the community of teaching and research. It also aims to enrich the participants with advances in renewable energy technologies, recent advances in power sector and smart grids.

## ELIGIBILITY

The program is open for the faculty members, Post Graduate students & Ph.D scholars of Engineering, Diploma, & R&D labs from AICTE/respective/technical board/government approved technical institutions. This FDP is also open for participation from various energy regulatory bodies, leading power project managers, engineers, production managers, academia, technical managers, plant superintendents, operators and maintenance personnel, and private power consumer companies.

## IMPORTANT DATES

Last date of receipt of duly filled registration form: June 12, 2022

Intimation of selection of participants: June 13, 2022

Commencement of the programme: June 15, 2022

## METHODOLOGY

The one-week programme will be judiciously utilized by integrating theory classes, laboratory sessions, case studies and audio-visual presentations. Besides the institute faculty, experts will be invited from various esteemed institutions/R & D organizations. This FDP will be useful to various energy regulatory bodies, leading power project managers, engineers, production managers, academia, technical managers, plant superintendents, operators and maintenance personnel, and private power consumer companies.

## HOW TO APPLY

- ❖ Send the duly filled registration form (scanned copy) through email: **akhilgupta1977@gmail.com** as attachment. Submit the original hard copy at the time of first day in FDP registration.
- ❖ Last date of receiving registration form for participation in this FDP is **June 12, 2022**.
- ❖ Selected candidates will be informed by email/phone.

## IMPORTANT INSTRUCTIONS

There will be No-Registration fees for any participants from academic institutions, industry & research organizations. The interested participants from these organizations can fill the attached registration form & send its scanned copy by email in advance. Seats are limited and applicants will be selected on first come, first serve basis.

No TA/DA will be given to any participant. Suitable arrangements for free boarding and lodging of participants (On request basis) will be made at students' hostel in the university campus.

## ORGANIZING COMMITTEE

### Chief Patron

**Sh. Rahul Bhandari, IAS**  
Vice-Chancellor, IKGPTU

### Patron

**Dr. S.K. Mishra**  
Registrar, IKGPTU

### Chairman

**Dr. Vikas Chawla**  
Dean Academics, IKGPTU

### Co-Chairman(s)

**Dr. Rajiv Chauhan**  
Coordinator AICTE

**Dr. Satvir Singh**  
Deputy Dean (Engineering)

**Dr. Yadwinder Singh Brar**  
Professor, EE

### Internal Committee

**Dr. Yadwinder Singh Brar**  
Professor, EE

**Dr. Gagandeep Kaur**  
Associate Professor, EE

**Dr. Deepika Bhalla**  
Assistant Professor, EE

**Dr. Naveen Kumar Sharma**  
Assistant Professor, EE

**Dr. Akhil Gupta**  
Assistant Professor, EE

# REGISTRATION FORM



## One-Week National Level Faculty Development Program (AICTE & IKGPTU Sponsored)

on

### Applications of Computing Techniques in Sustainable Energy Systems - (ACTSES) (June 15 - 20, 2022)



Organized by

Department of Electrical Engineering, I. K. Gujral Punjab Technical University-Main Campus,  
Jalandhar - Kapurthala Highway, Distt. Kapurthala, Punjab, India.

Name of the Candidate (Dr./Mr./Ms.).....

Designation.....

Name of the Department.....

Email ID.....

Office Tel No./Mobile No.....

Name of the Institution :.....

Address for Correspondence: .....

Highest Academic Qualification.....

Experiences (If applicable) (a) Teaching..... (b) Industrial or others.....

Research Areas/Specialization.....

Male/Female.....

Accommodation Assistance Required (Yes/No) :.....

(.....)

Place:

Date:

### Recommendation

Complete Signature of the Candidate

I hereby permit Dr./Mr./Ms..... an employee of our institute to participate in the FDP on Applications of Computing Techniques in Sustainable Energy Systems (ACTSES) (June 15- 20, 2022) being held at I.K. Gujral Punjab Technical University, Main Campus, Kapurthala, Punjab. During this period, he/she would be on the official duty.

Complete Signature with Date & Seal  
Sponsoring Authority  
(HOD/Principal/Director)

Note: 1. Photocopied/typed Reg. Form can be used or may be downloaded from institute website.

2. Send the filed registration form (scan copy) through email as attachment & submit the original hard copy at the time of FDP registration.

### Contacts

Dr. Gagandeep Kaur, Email: gaganee@ptu.ac.in Mob. No.: +91-94780-98118

Dr. Akhil Gupta, Email: akhilgupta1977@gmail.com Mob. No.: +91-94658-84873, 98550-41124