



AICTE Training and Learning Academy (ATAL) Programme/ Faculty Development Programme(FDP)

on

Internet of Things (IoT)

(14th - 18th October, 2019)

for

FACULTY MEMBERS/PhD SCHOLARS/PG STUDENTS OF AICTE AFFILIATED
INSTITUTES

Organised By

Department of Computer Science & Information Technology

CENTRAL UNIVERSITY OF JAMMU, JAMMU

About CUJ

The Central University of Jammu has been established by the Central Universities Act 2009(Act No 25 of 2009) read with the Central Universities (Amendment) Act, 2009. Central University of Jammu in a short span of time has been able to carve a niche for itself at regional as well at national level. The Central University of Jammu started functioning from 08th August 2011. Presently, the University is offering 34 programmes: 04 integrated five year programmes, 15 Post Graduate, 12 research oriented and 02 Vocational types at Under-graduate level under the aegis of 13 Departments. The main campus of the University is situated at Rahya Suchani (Bagla), in the Samba district of Jammu division.

About Department of CS & IT

The Department offers M.Tech (Computer Science & Technology) programme with an intake of 30 students. The M.Tech programme has been approved by AICTE from the session 2017-18 onward. The Department is also offering PhD. research programme from the academic session 2016-17. The Department has a team of six highly qualified and experience faculty members with varied field of research areas. The Department of Computer Science and Information Technology has successfully organised two International conferences on theme of "Recent Innovations in Computing" (ICRIC) in the year 2018 and 2019.

About ATAL

AICTE is committed for development of quality technical education in the country by initiating various schemes.

Vision

To Empower faculty to achieve goals of Higher Education such as access, equity and quality.

Mission

To establish AICTE Training and Learning (ATAL) cell in all the technical institutions, Universities, Deemed-to be Universities and other institutions of technical learning.

AICTE will support for establishment of AICTE Training and Learning (ATAL) cell in all the technical institutions. Universities. Deemed to be Universities and other institution of technical learning.

Objectives of Academy

The objectives of this scheme are

- To set up an Academy which will plan and help in imparting quality technical education in the country
- To support technical institutions in fostering research. innovation and entrepreneurship through training
- To stress upon empowering technical teachers & technicians using Information & Communication Technology
- To utilize SWAYAM platform and other resource for the delivery of trainings
- To provide training and exchange of experiences
- such as workshops, Orientations, learning communities, and other faculty development programmes
- To support policy makers for incorporating training as per requirements

About the Programme

This workshop is designed to provide the state of the art trends and advancements in Internet of Things in Educational Canvas. The workshop will focus on theoretical aspects as well as on providing hands on experience to the participants. The participants will be introduced to fundamentals of Internet of Things and develop the understanding of how to use embedded & wireless hardware and programming skills to realise an IoT application. The participant will be trained and will be exposed to future of IoT in Educational Canvas.

Objectives

1. To form a bridge between the industry and academic institutions to update their knowledge.
2. To understand the need of IoT in the research community and the software industry in India.
3. To appreciate the differences among Big Data, Cloud Computing and IoT.
4. To understand the need of innovative applications, such as Smart City, Smart Health, Smart Manufacturing, Smart Agriculture, etc.
5. To train the participants on how to design and program the IoT based system.

Topics to be covered

1. Introduction to Internet of Things (IoT), Embedded systems, IoT Languages.
2. Communication Protocols, Interconnections, System. Design and Development, Real Time Operating Systems.
3. Arduino, Raspberry Pi Architecture & programming.
4. Basics of Sensors & Actuators
5. IoT Cloud, Applications in IoT.
6. How to control any device from anywhere across the world
7. Python, Embedded C, will be covered
8. Data acquisition, processing & visualization
9. Sensor data management, actuation and smart behavior
10. Security/privacy/trust in IoT

Resource Persons

Resource Persons are experienced faculty Members from Universities/Institutes/Industries of repute.

Eligibility

The programme is open to the members of AICTE affiliated Institutes i.e faculty members, Research Scholars, PG Students.

How to Apply

The interested participants can register themselves through google form below:

Link to Apply:

https://docs.google.com/forms/d/1y7VgnTCUQzTh_6q4Uee3jxmA33462oavRc5etqgcjE

Dates

14th - 18th October 2019.

Certificate

A Certificate to the participants will be issued on successful completion of FDP.

Organizing committee

Chief patron

Prof. Ashok Aima (Hon'ble Vice-Chancellor , Central University of Jammu)

Patron

Prof. Devanand (Dean, School of Basic and Applied Science)

Program Co-coordinator

Dr.Yashwant Singh (Associate Professor and HOD, CSIT.)

Organizing Team

Dr. Bhavna Arora (Assistant Professor, CSIT)

Dr.Arvind Selwal (Sr. Assistant Professor, CSIT)

Dr.Neerendra Kumar (Sr. Assistant Professor, CSIT)

Dr.Deepti Malhotra (Assistant Professor, CSIT)

Contact Details

Course Coordinator

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