

Registration For

One Week Online AICTE Sponsored Short Term Training Programme on **Internet of Things (IoT): Challenges and Applications**

01st – 06th Feb, 2021

Name: _____

Designation: _____

Organization: _____

Affiliating University: _____

Qualification: _____

Teaching experience: _____

Area of specialization: _____

Address for correspondence: _____

Telephone/ Mobile No.: _____

E-mail: _____

Signature of candidate

The candidate will be permitted to attend the above course, if selected.

Date: _____

Signature & Seal of
Sponsoring authority

Google Form Link for Registration (FREE):

<https://forms.gle/Bn7JGfU6VbN7z6UH7>

Participation

Non-Residential Short Term Training Programme (STTP) is open to full time regular/permanent teachers of AICTE/UGC recognized degree level engineering colleges/institutions / organizations, technical universities/deemed universities and other research/training institutions. The interested candidates are required to send the duly filled online registration form to the Course Coordinator at the earliest but not later than 26th Jan 2021. The registration is **FREE**. The list of selected candidates will be displayed on official GGSIPU website on/before 30th Jan, 2021. The selection will be on first come first served basis, depending upon the availability of the seats. Certificates will be issued after receiving online feedback, only to those candidates having minimum 80% attendance as well as attaining more than 60% marks in the test (scheduled on the last day of the STTP).

Organizing Committee

Dr. Anuradha Chug

Dr. Rahul Johari

Supervisory Committee

Prof. Nupur Prakash

Prof. B. V. Ramana Reddy

Prof. Navin Rajpal

Prof. C. S. Rai

Prof. Arvinder Kaur

Prof. Anjana Gosain

Prof. Udayan Ghose

Prof. Bharti Suri

Prof. Amit Prakash Singh

Prof. P S Bharti

Prof. Manoj Taleja

Prof R Rama Kishore

Prof. Anju Saha

Prof. Ravindra Kumar Purwar

Prof. Virendra Prasad Vishwakarma

Prof. Anurag Jain

Prof. Sanjay Kumar Malik



One Week Online AICTE Sponsored Short Term Training Programme on **Internet of Things (IoT): Challenges and Applications**

01st -06th February, 2021

Patron

Padma Shree Prof. (Dr.) Mahesh Verma
Vice Chancellor, GGSIP University

Advisor

Shri Ravi Dadhich
Registrar, GGSIP University

Dean, USIC&T

Prof. (Dr.) Pravin Chandra
Dean, USIC&T, GGSIP University

Course coordinator

Dr. Anuradha Chug

Organized by

University School of Information, Communication &
Technology (USIC&T),

**Guru Gobind Singh Indraprastha
University (GGSIPU)**

Dwarka, New Delhi – 110078

Website: www.ipu.ac.in

Objective of the STTP

The proposed STTP is designed to offer a unique opportunity to the participants to interact with the prominent experts from Industry, faculty from premier Academic institutions, and distinguished practitioners working in the area of Internet of Things (IoT). Lectures will be delivered by eminent experts, having rich teaching and industrial experience in their respective fields of application and hence will provide deeper insight and knowledge to the participants about the advances in the fields of IoT applications, along with its challenges. The primary target group for the STTP are teachers of Colleges, University Department, Academic Institutions, Research Scholars, PG students who are engaged in research or planning to undertake research, and Industry personnel.

Contents

- Introduction to IoT
- Applications of IoT
- IoT and Robotics
- IoT Routing using MQTT Protocol
- IoT and Machine Learning
- IoT Device Management & Configuration
- IoT Sensor Nodes Localization
- Intelligent Discovery of Data & Services in IoT

Resource Persons

Faculty and Experts from
GGSIPU/ DTU/ IIT's/ IIIT Delhi/ JNU/ IGDTUW/ NSIT/
SAU/ TI

About GGSIPU

Guru Gobind Singh Indraprastha University (GGSIPU) is the first University established in 1998 by the Govt. of NCT of Delhi under the provisions of Guru Gobind Singh Indraprastha University Act, 1998 read with its Amendment in 1999. The University is recognized by University Grants Commission (UGC), India under section 12B of UGC Act. It is a teaching and affiliating University with the explicit objective of facilitating and promoting "studies, research and extension work in emerging areas of higher education with focus on professional education". It must be a matter of great satisfaction to all of its stakeholders in general, and the faculty and students, in particular that in a short span of time, the University has not only been able to earn the best of national accreditations, educational awards and acquire stringent certifications – UGC's recognition under Section 2 (f) and 12 (b); Graded as 'A' by the National Assessment and Accreditation Council, Bangalore; ISO 9001 : 2000 first in 2008 and upgraded later to ISO 9001 : 2008 in 2009; and Recertified again in February, 2011 upto February, 2014; attaining AIU's Status of Regular Membership in November, 2008; Categorization of the University by Dun & Bradstreet as 'Decide with Confidence' in its publication titled, 'Universities of India 2008'; selected among 250 Top Educational Institutes in India for the Grand Book on Education, titled, 'Star Brands Education 2010 etc. but has also succeeded in making its presence felt both at national and international levels.

Students' Organizing Team

Ms. Shradha Verma
Ms. Shikha Gupta
Ms. Anshul Bhatia
Ms. Mansi Agnihotri
Ms. Priyanka Sahu
Ms. Kirti Lakra
Ms. Srishti Achari
Mr. Anmol Goel
Mr. Anubhav Varshney
Ms. Medha Chugh

Office Staff

Mr. Pawan Kumar Vashishtha
Ms. Geeta Rauthan

About USIC&T

The University School of Information, Communication & Technology has been established to design and implement courses with a twin objective of generating effective professionals and to keep pace with the R & D activities of this fast emerging and changing field of Information & Communication Technology. The school aims at inculcating essential skills as demanded by the global software industry, through the interactive learning process. This includes team-building skills, audio-visual presentations and personality development programmes. These enhance analytic and communication skills, besides inculcating the virtues of self-study. The school is running B.Tech./M.Tech. (Dual Degree), M.Tech. and Ph.D. programme in Electronics & Communication Engineering, Computer Science & Engineering and Information Technology, MCA(SE), M.Tech in Robotics & Automation Engineering PhD in MAE. USIC&T conducts research prominently in the area of Software Engineering, Neural Network, Signal & Image Processing, Data Mining, AI and Machine Learning.

Important Dates

Last date of receiving Applications : 26/01/2021
Notification about the selected : 30/01/2021
Candidates
Commencement of the STTP : 01/02/2021

Address for Correspondence

Dr. Anuradha Chug, Course Coordinator
University School of Information, Communication &
Technology (USIC&T)
Guru Gobind Singh Indraprastha University (GGSIPU)
Sector 16C, Dwarka, New Delhi - 110078
Tel. O: 011-25302740
Mob: 9013766297, E-mail: iot@ipu.ac.in

SCHEDULE FOR SHORT TERM TRAINING PROGRAMME: FEBRUARY 01 - 06, 2021

SESSION TIMINGS	Monday, 1 st February 2021	Tuesday, 2 nd February 2021	Wednesday, 3 rd February 2021	Thursday, 4 th February 2021	Friday, 5 th February 2021	Saturday, 6 th February 2021
10:00 am to 11:15 am	Inauguration Ceremony By Hon'ble Vice Chancellor, Registrar, Dean, USIC&T and Director (AICTE), Keynote Session on Wearable Devices in IoT By Prof. Nupur Prakash, USIC&T, GGSIPU	Energy Challenges and importance of Low Power in IoT By Prof. Manoj Taleja, USIC&T, GGSIPU	IOT in Environmental Monitoring and Public Transport By Dr. Pravesh Biyani, IIIT Delhi	Sensing as a Service for IoT Clouds By Prof. Jyoti Sahni Victoria University of Wellington, New Zealand	Geospatial Analysis and IoT By Prof. Navin Rajpal, USIC&T, GGSIPU	IoT system design : Trends and Challenges By Dr. Vivek Khaneja, Executive Director CDAC Noida
11:15 am to 11:45 am	TEA/COFFEE BREAK					
11:45 am to 1:00 pm	CRAIOT : Concept, Review and Application of IoT By Dr. Anuradha Chug, USIC&T, GGSIPU	Routing in IoT Network Using MQTT Protocol By Dr. Rahul Johari, USIC&T, GGSIPU	IoT and Big Data Analytics By Prof. Anirban Mondal, Ashoka University	IoT Device Management and Configuration By Prof. D. K. Lobiyal, JNU	Role of Machine Learning Algorithms on the Data Collected through Sensors By Dr. Ruchika Malhotra, DTU	Exploiting the benefits of IoT in designing Smart City By Dr. Sunita Prasad, Joint Director, CDAC Noida
01:00 pm to 2:00 pm	LUNCH					
2:00 pm to 3:15 pm	Architecture of IoT By Prof. BVR Reddy, USIC&T, GGSIPU	IoT Toolkit Simulation And Demonstration By Texas Instruments, Bangalore	IoT Toolkit Demonstration of SENSENUTS By Eigen Technologies, Delhi	Hands on Session on Arduino IoT Kit By Research Scholars, USIC&T, GGSIPU	IoT-UAV By Dr Ashish Payal, USIC&T, GGSIPU	Online Assessment and Evaluation
3:15 pm to 3:45 pm	TEA/COFFEE BREAK					
3:45 pm to 05:00 pm	Green Routing Algorithm for IoT Enabled Software Defined WSN By Prof. D. P. Vidyarthi, JNU	Application Of Machine Learning in IoT/IoT in Agriculture By Prof. Amit Prakash Singh, USIC&T, GGSIPU	Attribute based Discovery Architecture for Devices in IoT By Dr. Shachi Sharma, South Asian University	Session on Role of Sensors in Robotics By Dr. P. S. Bharti, USIC&T, GGSIPU	Motivation and Stress Management By Sahaj Yog Foundation	Feedback Session And Valedictory Ceremony By Prof. Pravin Chandra Dean, USIC&T and Dr. Mohit Gambhir, Director (Research and Innovation), AICTE