

AICTE IDEA Lab-GGSIPU

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University School of Information, Communication & Technology

in collaboration with EIGEN Technologies

organizes

One week

Faculty Development Programme (FDP)

On

Hands-on Workshop on IoT based Applications

8th January – 12th January , 2024



Patron

Prof. (Dr.) Padma Shri Mahesh Verma
Hon'ble Vice Chancellor, GGSIP University

Dean, USIC&T

Prof. Anjana Gosain
Dean, USIC&T, GGSIP University

Chief Mentor, IDEA Lab

Prof. Amit Prakash Singh
Professor, USIC&T, GGSIP University

FDP Coordinator

Dr. Anuradha Chug
USIC&T, GGSIP University

FDP Co-coordinator

Dr. Ruchi Sehrawat
USIC&T, GGSIP University

OBJECTIVE OF THE FDP

The proposed FDP 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 recent trends in Internet of Things (IoT). Lectures will be delivered by eminent experts, having rich teaching and industrial experience in their respective field of application. The main features of this FDP includes Experiential, and Outcome based Teaching, Industrial Visits, Detailed knowledge about various sensors, data loggers, how to retrieve data from the sensors and how to either upload or retrieve the data from the cloud, Collaborative Learning, Hand-On sessions, Polls and Voting etc. The primary target group for the FDP are teachers of Colleges, University Department, Academic Institutions, Research Scholars, UG and PG students who are engaged in research (or) planning to undertake research and industry personnel.

FDP CONTENTS

- Introduction to IoT
- IoT Architecture and Techniques
- Applications of IoT (Hands On)
- Recent Advances in IoT
- Introduction to WSN
- Introduction of Sensors
- Installations of various Sensors
- Retrieving data from the Sensors
- Uploading the data to the Cloud
- Retrieving data from the Cloud
- Industrial IoT
- Fundamentals, applications, recent trends & challenges in Computer Vision
- Deep Learning for computer vision: Basic concepts and recent advancements
- Application of IoT and Computer Vision in Plant disease detection.

ABOUT IDEA LAB

AICTE-IDEA (Idea Development, Evaluation & Application) Labs are being established by AICTE across the country for encouraging students for application of science, technology engineering and mathematics (STEM) fundamentals towards enhanced hands-on experience, learning by doing and even product visualization

ELIGIBILITY OF PARTICIPANTS

IDEA LAB FDP is open to faculty members, Ph.D. Scholars and PG Students of AICTE or UGC recognized educational institutions, technical universities/deemed universities and other research/training institutions. The participants should be nominated by the college principle/director/dean for better accountability to attend the FDP.

Priority would be given to participants from other AICTE IDEA Lab of the country and faculty members of affiliated college (max 2 members).

REGISTRATION DETAILS

- There is **no registration fee**.
- No of Participants: Min-30 & Max-50
- Interested participants can register using the following link:

<https://forms.gle/QJCAFhLHWGJzGqAdA>

Step 1: Sign-Up

Step 2: Enter the details mentioned in the form

Step 3: Click the plus submit button to register.

Last date of Registration: 30 December 2023 (5 PM)

Confirmation of registration for FDP: 4-Jan 2024

RESOURCE PERSONS

Experts from Academics and Industrial Partner.

UNIVERSITY VISION

The University will stimulate both the hearts and minds of scholars, empower them to contribute to the welfare of society at large; train them to adopt themselves to the changing needs of the economy; advocate them for cultural leadership to ensure peace, harmony and prosperity for all.

ABOUT GGSIP UNIVERSITY

Guru Gobind Singh Indraprastha (GGSIP) University 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. The University promotes establishment of colleges and schools of Studies as Centre's of Excellence in emerging areas of education with focus on professional education in disciplines of engineering, technology, medicine, education, pharmacy, law, etc.

STUDENT ORGANIZING COMMITTEE

Mr. Sourabh Anand
Ms. Heena Kalim
Ms. Riya Rawal
Mr. Abhishek
Ms. Neha
Ms. Kirti
Ms. Chandni Kohli
Mr. Nitendra Singh

ABOUT USIC&T DEPARTMENT

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

The school was set up with an aspiration to generate manpower, with the ability to take on challenges and fare forward in the realm of information & communication technology. The curriculum has been designed to cater to the ever-changing demands of information, communication technology, with the necessary inputs from the industry. The school has highly qualified & experienced faculty who excel in their respective areas. The school also encourages research work in various areas of information & communication technology. The school aspires to produce individuals equipped to contribute for progress at all levels: individual, national and global.

Assessment Criteria

- Continuous Comprehensive Assessment of Attendees – Overall 70% to received a certificate, 90% and above for distinction
- Marks Distribution will be as follows:
 - Attendance – 10% (Individual), minimum required attendance – 80%
 - One assessment – 20%



Visit

<https://www.ggsipu-idealab.tech/>

Salient Features of FDP

- ❖ The FDP will be conducted in Offline mode.
- ❖ Industrial experts will form teams (5-6 members per team) from the registered attendees.
- ❖ Experts will explain importance of the topic, suggest study.
- ❖ Hands on Session will be provided each day followed by which each Participant will do teaching practice during the FDP as a mandatory requirement
- ❖ One assessment will be conducted during the FDP (Combination of MCQs/ short answers/reasoning based etc.)
- ❖ The certificates will be issued to those participants who have attended the Programme with minimum 80% attendance and scored minimum 70% marks in the test.
- ❖ Industrial Visit may be organized, if participants willing to bear the travel cost.
- ❖ Certificate will be issued by AICTE-IDEA Lab and USIC&T, GGSIP University.

ADDRESS OF CORRESPONDENCE

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