



## AICTE Training and Learning Academy (ATAL) sponsored 5- Days Faculty Development Program

on

### Internet of Things

13<sup>th</sup> -17<sup>th</sup> September 2021



Organized by  
Department of Computer Engineering  
Faculty of Informatics and Computing

**J. C. Bose University of Science and Technology, YMCA**

Haryana State Government University) Accredited 'A' Grade by NAAC

Sector-6, Mathura Road, Faridabad, Haryana

## About University

J. C. Bose University of Science and Technology, YMCA, formerly known as YMCA University of Science and Technology, has exerted a great deal of effort to promote the Technical Education in the State and the Country at large over the past five decades since its inception as an Indo-Germanic project in 1969. An Institution that had a humble beginning as a post diploma institution famous for generating skilled technical human resource for the industry has been elevated in 2009 as University of Science and Technology to further create competent human resource in diversified areas of Science & Technology. The competence of the University has been recognized at various levels by the agencies like UGC (12B status), NAAC (Grade 'A'), NIRF (best ranking amongst State Engineering Universities in Haryana) and selection for TEQIP-III project and RUSA Scheme of MHRD, Govt. of India. Right from the very beginning at institutional level, it has emphasized greatly on practical work related to industry. As a result, our students are well accepted by the industries.

## About Computer Engineering Department

The Department of Computer Engineering aims to promote academic growth by offering high quality UG, PG and Doctoral programmes. The department established in 1991, currently offers B.Tech courses in Computer Engineering, Information Technology and Computer Engineering specialization with Data Science and M.Tech. courses in Computer Engineering and Computer Science & Engineering. The doctoral programme was started in 2010. To achieve the overall objectives of this curriculum, the department has established extensive computer and research labs with latest hardware/software. The department has well qualified and rich experience faculty. The department also encourages the students to engage in extracurricular and co-curricular activities, essential for development, nurturing team spirit and developing organizational skills. The department has organized number of seminars, FDPs, Value added courses on latest technologies in the past. This FDP is another endeavour in dissemination of the knowledge.

## About ATAL Academy

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of faculties and students to make them more employable to acquire global competencies.

## About Faculty Development Program

The Internet of Things is the idea of regular articles - from modern machines to wearable gadgets - utilizing worked in sensors to assemble information and make a move on that information across an organization. Different advancements like AI, ongoing investigation, sensors and implanted frameworks are joined in IoT. In the buyer market, IoT innovation is exceptionally inseparable from items relating to the idea of the shrewd home, savvy gadgets and apparatuses like lighting installations, indoor regulators, home security frameworks, supporting cameras, and other home machines, PDAs and keen speakers. IOT is a consistently arising field and is seeing new improvements each and every other day. Individuals from the scholarly world, R&D and industry are consistently inquisitive and deprived to be side by side with the most recent advancements in the space of IOT and related innovations. The objective of workshop is to create awareness and provide research directions in the recent and innovative fields of IOT related state of the art technologies.

Topics to be Covered:

- Introduction to the Internet of Things, Architecture & Smart Sensors
- Networking Technologies for Data Center
- Arduino & Implementation of basic project with Arduino
- Machine Learning in IoT , Monitoring of Machine using IoT
- IoT systems, Raspberry Pi Hardware Setup
- Data management and big data analytics in IOT.
- Visualization Tools
- Hands on Demo using Arduino
- Case Study Implementation of tracing object using IoT
- Cloud centric IoT
- IoT based Wi-Fi Module to interface Arduino with Cloud
- AWS IoT Application & Streaming Data to AWS Cloud
- Security & privacy issues in IoT
- Case Study- Implementation of Security Through IoT
- Research Issues & Case studies in IoT

## Who can Attend FDP

Faculty members of the AICTE approved institutions, research scholars, PG, Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.). A test will be conducted at the end of the program. The certificates will be issued to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

## Resource Persons

The course substance will be conveyed from a pool of asset people regarding the matter from driving enterprises and esteemed scholarly organizations.

## Registration Details & Important Dates

There is no Registration fee for any participant. Interested candidates should fill the online application form through the web link available on: <https://atalacademy.aicte-india.org/signup>.

- Last Date (Online Registration): 09.09.2021
- Intimation to selected candidates: 10.09.2021
- Confirmation from participants: 11.09.2021

### Patron



**Prof. Dinesh Kumar**  
Hon'ble Vice-Chancellor  
JC Bose UST, YMCA

### Co-Patron



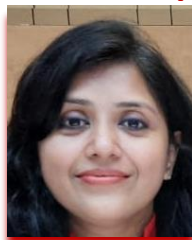
**Dr. S. K. Garg**  
Worthy Registrar  
JC Bose UST, YMCA

### Program Chair



**Prof. Komal Kumar Bhatia**  
Dean (Faculty of Informatics & Computing)  
Chairperson (Dept of Computer Engg)

### Faculty Coordinator/ Convener



**Dr. Sapna Gambhir**  
Associate Professor (CE)

### Organizing Secretary

Dr. Parul Tomar, Associate Professor (CE)

Dr. Preeti Sethi, Assistant Professor (CE)

### Organizing Committee

Dr. Ashlesha, Assistant Professor (CE)

Dr. Payal, Assistant Professor (CE)

Dr. Manvi, Assistant Professor (CA)

Dr. Amita Arora, Assistant Professor (CE)

Dr. Umesh, Assistant Professor (CE)

Dr. Rewa, Assistant Professor (CE)

Dr. Lalit Goyal, Assistant Professor (CE)

Mr. Piyush, Assistant Professor (CE)

Ms. Aayushi, Assistant Professor (CE)

Ms. Shilpi, Assistant Professor (CE)

**Note:** For any Query please email at [atal.ce.ymca@gmail.com](mailto:atal.ce.ymca@gmail.com), [sapnagambhir@gmail.com](mailto:sapnagambhir@gmail.com) or contact at +91 9810340200