



**AICTE TRAINING AND LEARNING (ATAL) ACADEMY PROGRAMME  
ON  
INTERNET OF THINGS (IoT) AND ITS APPLICATIONS  
October 21 - 25, 2019**



**Organized by:  
Department of Computer Science and Engineering, Tezpur University  
Tezpur University, Napaam, Assam-784028**

The one week long workshop on INTERNET OF THINGS (IoT) AND ITS APPLICATIONS is designed to disseminate knowledge on basic technologies of IoT and its applications in today's cyber physical system (CPS). It is anticipated that the participants would gain far reaching insights and enrich their knowledge in this field.

*This Workshop is supported by AICTE-ATAL and it is planned keeping in view a wide range of topics of current teaching, research and innovation trends going on in the domain of Machine Intelligence and IoT.*

**IoT TRACK:**

**Topics to be covered (but not limited to):**

- Basics of IoT
- IoT Stack and Networking
- Hardware, Sensors and Actuators
- IoT Platform Architecture
- IoT Gateway
- IoT Protocols and Services

**Illustrative hands-on session:**

- Using IoT kit and programming

**IoT APPLICATIONS TRACK:**

**Topics to be covered (but not limited to):**

- IoT in Resource Management
- Industrial IoT and IoT in Enterprise
- IoT in Transportation
- IoT in bio-energy management
- Smart cities & IoT
- IoT in Environmental Monitoring
- IoT in Healthcare
- IoT in Education

**Eminent experts and researchers from prestigious academic institutes and IT Industries such as – IIT, CDAC and Ekagga will deliver lectures and engage in hands on session and interactions.**

**PATRON**

Prof. V. K. Jain, Vice Chancellor, TU

**ADVISORS**

Prof. D. K. Saikia, Pro-Vice Chancellor, TU  
Prof. D. K. Bhattacharyya, Dean, Academic Affairs  
Prof. B. Bora, Head, CSE, TU  
Prof. S. K. Sinha, Dean, School of Engineering  
Prof. D. C. Baruah, Director, IQAC, TU  
Prof. U. Sharma, CSE, TU  
Prof. N. Sarma, CSE, TU  
Dr. S. Saharia, Head, Computer Centre, TU

**VENUE:**

**Seminar Hall, Dept. of Computer Science & Engineering,  
Tezpur University, Tezpur, Assam.**

**ORGANIZING COMMITTEE**

Dr. S. K. Deka, Coordinator  
Dr. Debojit Boro, Joint-Coordinator  
Dr. Arindam Karmakar  
Dr. Sanghamitra Nath  
Dr. Swarnajyoti Patra  
Dr. Nabajyoti Medhi  
Dr. Shobhanjana Kalita  
Dr. P. K. Choudhury  
Dr. Durlav Sonowal



**Tezpur University** was established by an Act of Parliament in 1994. The objectives of this Central University, as envisaged in the statutes, are that it shall strive to offer employment oriented and interdisciplinary courses to meet the local and regional aspirations and the development needs of the state of Assam and also offer courses and promote research in areas which are of special and direct relevance to the region and in emerging areas in Science and Technology.

Tentative Schedule is as follows:

Dates	10:00 AM to 11:30 AM	11:30 AM to 12.00 PM	12.00 PM to 1.30 PM	1.30 PM to 2:30 PM	2:30 PM to 4.00 PM	4:15 PM to 4:45 PM
21/10/2019	Registration and Inauguration	High Tea	Session 1 Topic/Activity: IoT Fundamentals Expert name: Designation:	Lunch	Session 2 Topic/Activity: IoT Devices, Sensors & Actuators Expert name: Designation:	Tea
22/10/2019	Session 3 Topic/Activity: IoT Stack and Protocols Expert name: Designation:	Tea	Session 4 Topic/Activity: IoT Architecture Design Expert name: Designation:	Lunch	Session 5 Topic/Activity: IoT in Resource Management Expert name: Designation:	Tea
23/10/2019	Session 6 Topic/Activity: IoT in Healthcare Expert name: Designation:	Tea	Session 7 Topic/Activity: Smart Cities & IoT Expert name: Designation:	Lunch	Session 8 Topic/Activity: IoT in Bio-energy management Expert name: Designation:	Tea
24/10/2019	Session 9 Topic/Activity: IoT in Environmental Monitoring and Transportation Expert name: Designation:	Tea	Session 10 Topic/Activity: Hands on Training with IoT Kit Expert name: Designation:	Lunch	Session 11 Topic/Activity: Hands on Training with IoT Kit Expert name: Designation:	Tea
25/10/2019	Session 12 Topic/Activity: IoT in Education Expert name: Designation:	Tea	Session 13 Topic/Activity: Lab Practice using IoT Kit Expert name: Designation:	Lunch	Session 14 Topic/Activity: Lab Practice using IoT Kit Expert name: Designation:	Valediction

Faculty members, Research Scholars, and PG students from various government or private Engineering Colleges / Institutions / Universities with teaching and research interests in the area of IoT are eligible to participate in the workshop.

**Hostel and Guest House accommodation is subject to availability and charges have to be borne by the participants. No TA/DA will be provided to the participants.**

All mails should be directed to [iotworkshop@tezu.ernet.in](mailto:iotworkshop@tezu.ernet.in).

For registration, please follow the link: <https://forms.gle/wfR4JLq2aMevdHZq5>

Accommodation for participants is limited and will be provided subject to prior intimation via mail and on a first-come-first-serve basis.

Regular bus services are available from Guwahati (ISBT) to Tezpur ASTC Bus Station via Nagaon or Mangaldai. To reach Tezpur University, University Bus Services are available from Tezpur ASTC Bus Station via Paruwa to University Campus.