



**AICTE SPONSORED  
SHORT TERM TRAINING PROGRAMME  
ON**

**“Data Analytics and Database  
Management in IoT”**

**31<sup>st</sup> May 2021 to 5<sup>th</sup> June 2021**

**REGISTRATION FORM**

**NB: There will be no Registration fee as the STTP is funded by AICTE**

1. Name of the Participant: (Block Letter)  
.....
2. Branch.....
3. Designation:.....
4. Name of the College/Organization:  
.....
5. Gender: (M/F): .....
6. Address for Correspondence :  
.....  
.....
7. E-mail: .....
8. Telephone No./Whats app No.....

Note: Participants are instructed to submit the Google form, along with the scanned copy of Registration form with full details in PDF format before the last date of registration.

Signature of the Participant

**PATRON**

**Prof.(Dr.) M.N.Dwivedi, Principal, TAT,  
Bhubaneswar**

**ADVISORY COMMITTEE**

- Prof. (Dr.) B.K.Nanda (Professor, Mechanical Engg.)
- Prof. (Dr.) P.K. Mohanty (Professor, Electrical Engg.)
- Prof.(Dr.) D.N Pattanayak (Dean, Academics)
- Prof. (Dr) A. Samal (Dean Research & Consultancy)
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- Prof. P. K. Sahoo (HOD,EEE)
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- Prof. (Dr.) A. Baral (HOD, Maths)
- Prof. Nani Gopal Das (HOD, Placement)
- Prof.(Dr.)Manas Kumar Senapati (HOD, Chem)

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Dean (Research and Development)  
Professor & HOD(ETC)  
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- Mr. S. K. Tripathy, Asst. Professor
- Mr.S. K. Mohapatra, Asst. Professor
- Mr. S. N. Rath , Asst. Professor
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- Mr. B. R. Swain, Asst. Professor
- Mrs. N. Pati, Asst. Professor
- Ms. Monalisa Rout, Asst. Professor
- Mr. L. K. Kanoje, Asst. Professor

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**College Website:** [tat.trident.ac.in](http://tat.trident.ac.in)



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**An ISO 9001:2008 Certified Institute**  
Organized by  
Department of Electronics and Telecommunication  
Engineering  
**Trident Academy of Technology(TAT)**  
**Accredited by**



Plot No.F2/A , Chandaka Industrial Estate, Near Infocity,  
Bhubaneswar, Odisha 751024

[www.tat.trident.ac.in](http://www.tat.trident.ac.in)

## ABOUT THE INSTITUTION

Trident Academy of Technology, a name that has become a brand in the field of technical education, is today synonymous with excellence. Trident is where Education meets Enthusiasm. Within just a few years of its establishment, Trident Academy of Technology has built an image amongst the aspiring masses which is worth the quality of education it imparts. Trident Academy of Technology offers the kind of education needed for leadership in a rapidly changing world and accredited by NAAC and NBA. Its departments – Department of Electronics and Telecommunication Engineering, Department Computer Science and Engineering, Department of Computer Science and AI&ML, Department of Electrical Engineering, Department of Electrical and Electronics Engineering, Department of Mechanical Engineering, Department of Civil Engineering, Department of Computer Science & Information Technology, Department of MCA and Department of MBA – offer a breadth of highly regarded M.Tech./B.Tech./M.B.A./M.C.A. degree programs under Biju Patnaik University of Technology that allow students the freedom to explore their intellectual and personal passions

## ABOUT THE DEPARTMENT

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## ABOUT THE STTP

The second phase of the STTP scheduled from 31<sup>st</sup> May to 5<sup>th</sup> June 2021 essentially deals with a thorough analysis of different IoT applications in smart city and industry meticulously planned to provide a Hands-on use-case studies to all the participants. The STTP aims to bring both industry and academia together to emphasize on practical

oriented applications in the field of IoT and artificial intelligence. Now –a-days the data analytics plays a very important role in data mining and data base management. This STTP provides a platform to analyse, visualize and implement real world problems

### Objective:

The STTP aims at introducing the researchers to the data analytics and database management using IoT and machine learning blended with Artificial Intelligence. It will discuss Wireless Networking Technology, Interfacing of different Sensor, Actuator, Wireless Networking Technology with different microcontroller, MQTT IOT Protocol IoT data Analysis, Data Structure & Data Manipulation in Python, Time Series Analytics for IOT Data involved in ML, thereby enabling the students to design their own models and optimize them efficiently. The lectures will focus on mathematical principles, and there will be coding based assignments for implementation. Prior exposure to ML is not required. The training will be focused on applications in signal processing and communication, and the theory will be tailored towards that end. This program aimed to equip the participants with Machine learning knowledge with hands-on training that can help academicians and research scholars to develop their skills in the cutting-edge technology of IoT and the blend of fundamentals of mathematics with technology.

### Topics to be covered:

1. Introduction of IoT
2. IoT Device Design & Management
3. Wireless Networking Technology
4. Interfacing of different Sensor, Actuator, Wireless Networking Technology with different microcontroller
5. Networking and Communication Protocol
6. MQTT IOT Protocol
7. IoT Data Storage:
8. Time Series Analytics for IOT Data
9. Edge Computing
10. IoT Data Visualization and Dashboard
11. Use Cases (IoT Development, IoT Security, IoT Analytics)

### Expected outcome:

- Understand a wide variety of IoT Device Design & Management.
- Visualize the concepts of Wireless Networking Technology.
- Understand how to evaluate Interfacing of different Sensor, Actuator, Wireless Networking Technology with different microcontroller
- Apply the Machine Learning algorithms to a real problem, Time Series Analytics for IOT Data
- Apply the Edge Computing, IoT Data Visualization and Dashboard.

### FREE Registration

E-mail Id for sending registration form:

[etcsttp2021@tat.ac.in](mailto:etcsttp2021@tat.ac.in)

Registration form link:

<https://forms.gle/r9uPwwVjArEj4kKm7>

Last Date of Registration: 30<sup>th</sup> May, 2021, by 5.00PM

### Merit Certificates to Participants:

A test will be conducted by the Program Evaluation Committee (PEC) at the end of the program and the e-certificates will be issued to those participants who have attended all the sessions of the program and secured 60% attendance and qualified in the test

**This program consist of Hands on Sessions every day**

### RESOURCE PERSONS

The resource persons constitute experts/senior teaching faculty members from reputed institutions and industries including IITs, IISc, NITs, Industries, Research organization, etc. **and hands on sessions by Industry Experts from Solution Space, One stop solution, Gujarat.**

### ELIGIBILITY

- No. of Participants is limited to 60
- Faculty members and research scholars working in the same field from different AICTE approved Engineering institutions are invited to the FDP.
- This program is based on first come and first serve basis.

### IMPORTANT DATES

- Program commencement: 31<sup>st</sup> May 2021
- Program Duration: One week
- Last date of receipt of Registration Form: **30<sup>th</sup> May, 2021**