

**AICTE Training and Learning Academy
(ATAL) Five Days Online Workshop**

On

**Application of IoT in Aerospace
Engineering (Advanced)**

**27-31 December 2021
(One Week)**

REGISTRATION FORM

Name: _____

Qualification: _____

Department: _____

Mobile: _____

Email: _____

Declaration by the Applicant

If selected, I agree to abide by the rules and regulations of the workshop of ATAL Academy & VTU-HRDC and shall attend all the sessions compulsorily.

Date: _____ Signature of the Applicant

Recommended and Forwarded

Signature of the Head of the Institution

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Organized By

**VTU- Human Resource Development Cell (HRDC)
Department of Computer Science and Engineering
Visvesvaraya Technological University
Centre for Post Graduate Studies
Bengaluru Region, Muddenahalli
Chikkaballapur-562101**

In Association With



**AICTE Training and Learning (ATAL)
AICTE, New Delhi**

**VTU Centre for Post Graduate Studies
Bengaluru Region, Muddenahalli
Chikkaballapur-562101**

About the VTU

Visvesvaraya Technological University (VTU) named after Bharat Ratna Dr. Sir M. Visvesvaraya established on 1st April 1998, as per the VTU Act 1994 of the Government of Karnataka. University has been established by the Government of Karnataka in order to promote planned and sustainable development of technical education.

VTU has its Head Office located in Belagavi in the state of Karnataka. Reckoning the fact that, University is a seat of confluence of knowledge and as a Technological University, Visvesvaraya Technological University does not restrict itself only to curricular activities but emphasizes on the overall growth of knowledge in society and hence its campus in Belagavi is named aptly as “**Jnana Sangama**”. The University has jurisdiction over the whole state of Karnataka. For administrative convenience University has four Regional Offices established at Bengaluru, Mysuru, Kalaburagi and Belagavi. VTU is one of the prestigious and largest Technological University in the Country, having affiliation having 219 affiliated colleges, 1 constituent college and 17 Autonomous colleges with undergraduate courses in 35 disciplines, PG program in 94 disciplines and Ph.D& M.sc(Engg.) with research programs in 592 departments, over 4 lakhs Engineering Students study in the various institutes affiliated to the University.

VTU PG Centre, Muddenahalli, Bengaluru Region

The Visvesvaraya Technological University, Post Graduate Center, Bengaluru Region, Muddenahalli has 200 acres campus located at Muddenahalli, Chikkaballapura (Dist). Muddenahalli is the birth place of great legend Bharata Ratna Sir M. Visvesvaraya. It has all necessary infrastructure required for imparting quality education through its well structured administrative and academic staff for overall development of student's personality. Center for PG Studies has four full time post graduate programmes in M.Tech, and MBA. All the departments have well qualified faculty at all level and are involved in research and development.

AICTE Training and Learning(ATAL) Academy

The primary objective of the ATAL Academy is to plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training. The Academy stresses upon empowering technical teachers and techniques using Information and Communication Technology. It also aims at utilizing SWAYAM platform and other resources for delivery of the trainings. It provides a variety of opportunities for training and exchange of experiences. Such as workshops, orientation, learning communities, peer monitoring and other FDPs Supports policy makers in incorporating trainings as per requirements.

About the Training Program:

The deployment of connected objects is transforming the aeronautics industry. This affects the manufacturing process with new tools and services that generate a drop in production costs. It also enables the development of new business models centered on a service approach. With the massive amount of data processing and storage required for the daily operations of Aerospace companies, automation has become not just a novelty, but a necessity. The Internet of Things (IoT) has drastically altered the way many manufacturing companies operate by streamlining production and increasing data collection and analysis. Use of IoT operations increases overall efficiency, safety, and control of flights as a result of increased sensors and insights. In turn, these lead to improved maintenance as performance data can be analyzed in real-time. Ground crews and engineers can diagnose issues quicker and reduce downtime and, therefore, costs. Sensors are also increasing flight safety and decreasing costs by sending real-time data to predictive AI integrations. Aerospace companies are working to turn IoT usage into a standardized operation, so these sensors and subsequent analytics can better manage unplanned events. By creating a system that provides insights into current operations in addition to availability of resources and parts/tools, downtime can be minimized through preventative maintenance and near real-time

through preventative maintenance and near real-time planning to solve mechanical issues.

The global IoT in aerospace & defense market is segmented based on component, connectivity technology, application, and geography. Based on component, it is categorized into hardware, software, and services. Based on connectivity technology, it is divided into cellular, Wi-Fi, satellite communication, radio frequency identification (RFID), and others. Based on application, it is classified into real time fleet management (RTFM), training & simulation, health monitoring, equipment maintenance, health monitoring, inventory management, and others.

Resource Persons:

Resource persons are Eminent Industry Experts, Academicians (NITs, IITs and IISc.) and Practitioners Eligibility:

The faculty members of the AICTE approved institutions, Research Scholars, PG Scholars, participants from Government, Industry Bureaucrats/ Technicians/ Participants from Industry etc.), CBSE Teachers and staff of host institutions.

Registration :

Registration has to be done only through <https://atalacademy.aicte-india.org/>

For more information, kindly visit <https://atalacademy.aicte-india.org/FAQs>

Guidelines:

- ❖ There is **NO Registration fee**
- ❖ **Selection of Participants will be communicated through e-mail.**
- ❖ It is mandatory to attend the test that will be conducted in the last day of the FDP related to the topics covered.
- ❖ It is also mandatory for the participants to have a minimum of 80% attendance and 60% marks in the test to earn the certificate.

Contact: Dr.Basawaraj

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