

## Objectives of the Program

Air Traffic Control functions behind the screen and many are unaware of how this function of guiding flights safely across the globe, from departure to destination, is being carried out. This program gives a brief outline of several aspects of operational procedures of the current Air Traffic Control. Further, rapid growth of air-traffic over Indian airspace, however, is becoming quite overwhelming for the existing Air Traffic Control (ATC) system to take decisions manually. Hence, a high-fidelity air-traffic flow model needs to be developed, using which appropriate decision can be taken well ahead of time, for enhanced safety and optimal usage of the airspace. Therefore, a dynamic flow model for the Indian airspace, named as ATMA of India developed by IISc Bangalore will be discussed in this program. This model embeds a variety of information such as the kinematics of flight, Base of Aircraft Data (BADA).

## Program Content

- ❖ The first part of this presentation will discuss about the need of ATC, its components, navigational aids and working principles, types of flights and classification of airspace and its implications etc.
- ❖ The second part of the talk will speak about air traffic congestion and developments in the high-fidelity dynamic modelling of the Air traffic flow in the Indian Airspace. This model would help in the development of optimal controllers for autonomous control of air traffic flow to further ease air travel.

## Eligibility

This webinar is intended for final year UG, PG/PhD students in engineering and science, Researchers in industry and teaching staff in Engineering/Technical institutions and Universities.

## How to Apply

The interested candidates are requested to register through the following link:

<https://forms.gle/4xC5KN2GCoh3Ti24A>

Participants should also send a scanned copy of the attached application through e-mail.

The closing date and time of registrations is **30/10/2021, 12:00 hrs.**

## Selection of Participants

Upon receipt of duly filled in registration form online, participants would be short-listed for the course and intimated after short listing on a first-come-first-serve basis.

The number of participants is limited to 100 only.

## Certificate of Participation

Certificate of Participation will be issued to all participants on successful completion of the program.

## Registration Fee

The registration fee is waived. The participants are not required to pay any registration fee for participating in this webinar.

**Department of Electrical Engineering**  
Islamic University of Science and Technology,  
Awantipora, Kashmir-192122

**One-Day Webinar on “Air-Traffic  
Management over Indian Airspace:  
Operational Procedures and Dynamic  
Flow Modelling”**

**October 30, 2021**

## REGISTRATION FORM

Full Name: .....

Designation: .....

Organization:.....

Address:.....

.....

.....

Category: Industry/Faculty/Students:.....

Mobile.....

E-mail ID.....

Date:.....

Place:.....

Signature of applicant

## Resource Persons

The invited talks will be delivered by distinguished professors and experts from the Department of Aerospace Engineering, IISc Bangalore and Airport Authority of India (AAI).

### Prof. Radhakant Padhi

*Fellow INAE, AeSI, ASI, IE(I), IETE, AF AIAA and SMIEEE*  
Full Professor, Department of Aerospace Engineering  
Indian Institute of Science, Bangalore.

### Mr. K. P. Sooraj

*Asst. General Manager, Air Traffic Control*  
Airport Authority of India (AAI), Chennai  
*Jeppesen (A Boeing Company) Certified TAAM Expert*

## Important Date & Timings

### Last date for receiving online applications

**October 30, 2021 (12:00 hrs)**

### Invited Talk Duration

**October 30, 2021 (14:00 hrs – 16:30 hrs)**

**Note:** The shortlisted participants are requested to join the webinar through the duly provided link 15 minutes prior to scheduled start (13:45 hrs) of the program.

## Address for communication

Mr. Javeed Bashir  
Dept. of Electrical Engineering, IUST Awantipora,  
Kashmir – 192122  
Email: [javeed.bashir@islamicuniversity.edu.in](mailto:javeed.bashir@islamicuniversity.edu.in)  
Mobile: 9797004797

## About the University

The Islamic University of Science & Technology (IUST) is a public university located at Pulwama, Jammu and Kashmir, was established by an act of J & K State Legislative Assembly in November 2005. IUST is NAAC accredited and its technical programmes are UGC and AICTE recognised. The university has been set up as a centre for higher education for the people of J&K and its neighbouring regions.

Islamic University is located 28 kms away from the summer capital of the state, Srinagar. The almond grove surrounded campus has the Pir Panjal range to its one side and Jhelum river flowing on the other side of the road. There are many places worth visiting around the campus which attract a large number of tourists across the globe.

**About the department:** Electrical Engineering Department is one of the fastest growing departments under the School of Engineering and Technology, IUST. The Department plays a leading role in evolving an Industry oriented curriculum, strives to impart quality electrical engineering education and to serve as a role model for other academic institutions in the state. It has state-of-art laboratory facilities with latest equipment, test facilities and software.



## One-Day Webinar

on

## Air-Traffic Management over Indian Airspace: Operational Procedures & Dynamic Flow Modelling

**October 30, 2021**



### Coordinators

**Mr. Javeed Bashir & Dr. Arghya Chakravarty**

### Organised by



**Department of Electrical Engineering  
IUST, Awantipora, Kashmir – 192122**

**In collaboration with**

