

## ABOUT THE ORGANIZING DEPARTMENTS

### Civil Engineering

The Department of Civil Engineering is one of the oldest departments of the Institute started in 1960. It offers B.Tech (Civil Engineering) degree and M.Tech degrees in fields like Hydro Power Engineering, Geotechnical Engineering, Structural Engineering, Water Resources Engineering, Geo informatics specialization etc. It also offers Doctoral degrees.

### Architecture and Planning

The Department of Architecture and Planning, MANIT Bhopal has been engaged in imparting Architecture and Planning education for more than 54 years. Apart from Undergraduate courses, the department runs Post-Graduation courses in Urban Planning and Housing. Doctoral degrees are also awarded by the Institute from the Department.

### COURSE HIGHLIGHTS

This course is designed to provide a detailed overview of Remote sensing and GIS applications as well as advanced techniques like urban growth models, Hydrological modelling, Land suitability analysis for spatial planning and Development. This course would include domain specific lectures by experts from reputed national institutes. Practical sessions are included to provide hands-on practice on various techniques of spatial planning. The reference material on each module will be provided to participants.

### IMPORTANT DATE

Programme Dates: 07<sup>th</sup> Dec to 11<sup>th</sup> Dec 2021

Last Date for Registration: 01<sup>st</sup> Dec 2021

## OBJECTIVES

The main objective of this course is to disseminate GIS and Remote Sensing knowledge, skills and techniques used for spatial planning. Also, it pertains to provide training on information extracting, spatial analytics and utilizing it for spatial planning and decision making.

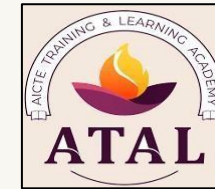
Benefits of merging Remote Sensing and GIS technologies in spatial planning is well recognized. GIS technology integrates common database operations, such as query and statistical analysis, with maps. On the other hand, Remote Sensing is the science of collecting data regarding an object or a phenomenon without any physical contact with the object. The training on Remote Sensing and GIS would provide opportunities to strengthen and structure the information base, support the decision-making process, and evaluate projects.

## KEY FEATURES OF THE PROGRAM

- Geospatial Artificial Intelligence in Urban Planning
- UAV driven urban monitoring
- Urban Informatics
- Land Suitability Analysis
- WEB GIS
- Urban growth models
- 3D GIS and Geospatial Modeling

**No registration fee for participants from AICTE approved Institutes and Government organisations.**

## AICTE Training and Learning (ATAL) Academy FDP



**(ONLINE MODE)**

*On*

## Remote Sensing and GIS Application in Spatial Planning and Development

**07<sup>th</sup> – 11<sup>th</sup> Dec. 2021**

### Patron

**Dr. N.S. Raghuwanshi**  
Director, MANIT, Bhopal

### Convener

**Dr. Charu Parashar, HOD**  
Department of Civil Engineering, MANIT, Bhopal

**Dr. Vinay Mohan Das, HOD**  
Department of Architecture & Planning, MANIT, Bhopal

### Coordinators

**Dr. Jyoti Sarup**  
Professor, Department of Civil Engineering

**Dr. Surabhi Mehrotra**  
Assistant Professor, Dept. of Architecture and Planning

**Ar. Bulbul Shukla**  
Assistant Professor, Dept. of Architecture and Planning



**Department of Civil Engineering &  
Department of Architecture and Planning**  
Maulana Azad National Institute of Technology, Bhopal

*An Institute of National Importance*



## **AICTE Training & Learning (ATAL) Academy**

The **ATAL academy** was established on 24th September 2018 with the objective to plan and help in imparting quality technical education in the country, and to assist technical institutions in advancing research, innovation, and entrepreneurship through training in form of Faculty Development Programs (FDP). The Academy stresses upon empowering technical teachers and technicians using Information and Communication Technology. The academy provides a variety of opportunities for training and exchange of experiences, such as workshops, orientation, learning communities, peer monitoring, and other FDPs.

### **ABOUT MANIT, BHOPAL**

**Maulana Azad National Institute of Technology (MANIT), Bhopal** is an Institute of national importance and one of the proficient engineering institutes of India which contributed many outstanding professionals for India and abroad. The institute was established in the year 1960. At present, the institute is conducting undergraduate, postgraduate degree courses and Ph.D. programs in different disciplines of engineering and applied sciences.

**Schedule:** Five Days

**Sessions :** Three sessions every day, including one Hands on tutorial session

**Time:** 12:00 noon to 5:00 pm

### **PREAMBLE**

Remote Sensing with GIS together provide valuable information for spatial planning and enable complex analysis that supports the decision-making process. This program would impart teachers and professionals with in-depth understanding of RS and GIS applications and advance methods and techniques for spatial planning process. The course includes Subject specific lectures, Case Studies and Hands on training modules for the participants by eminent academicians and Industry experts.

### **KEY RESOURCE PERSONS**

#### **1) Dr. SHAILESH CHAUREY**

Professor, HSC INDORE

#### **2) Dr. VIVEK KATARE**

Sr. Principal Scientist, MPCST Bhopal

#### **3) Dr. JYOTI SARUP**

Professor ,MANIT BHOPAL

#### **4) Dr. KAKOLI SAHA**

Assistant Professor, SPA BHOPAL

#### **5) Dr. VAIBHAV KUMAR UPADHYAY**

Assistant Professor, IISER Bhopal

#### **6) Dr. HARSHIT LAKRA**

Assistant Professor, IIT ROORKEE

#### **7) Dr. SURABHI MEHROTRA**

Assistant Professor, MANIT Bhopal

#### **8) AR. BULBUL SHUKLA**

Assistant Professor, MANIT Bhopal

#### **9) Dr. SHYAM AVTAAR**

GIS Consultant

#### **10) AR. AQUEEL MOHAMMAD**

GIS And RS Consultant

### **GENERAL INFORMATION**

- ❖ Selection of participants will be as per the rules and regulations of ATAL Academy.
- ❖ An online test shall be conducted at the end of the program.
- ❖ E-certificates will be issued only to those participants who attend the program with a minimum 80% of attendance and score minimum 60% marks in the test.

### **WHO CAN APPLY**

Faculty members of AICTE approved institutions, research scholars, PG scholars and participants from Government and Industry (Bureaucrats/ Technicians), and Faculty/PG and PhD scholars of MANIT, Bhopal (M.P).

### **REGISTRATIONS**

Registration of participants to be done through ATAL portal mentioned below:

[www.aicte-india.org/atal](http://www.aicte-india.org/atal)

**No registration fee will be charged from the eligible participants.**

### **CONTACT DETAILS**

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