AICTE Training And Learning (ATAL) Academy Sponsored Online One-Week Faculty Development Program
ON
GLOBAL NAVIGATION SATELLITE SYSTEMS
(7/26/2021– 7/30/2021)
Organized by
Indian Institute of Information Technology, Design and Manufacturing, Kurnool

---

About the FDP:

Global Navigation Satellite Systems (GNSS) are play a key role in day-to-day activities of our life in finding position and navigation in the form of Societal, Personal and Commercial applications. This course will provide the awareness of the Global, Regional and Local Navigation systems and their usage for many applications. This course also provides detailed information related to applications like Health, Transport, Agricultural etc. with demonstration in the form of workshop. This course also explores awareness of IRNSS and GAGAN system and their functioning.

Course Contents:

- **GNSS FUNDAMENTALS, SIGNALS, AND SATELLITES**: Fundamentals of Global Navigation Satellite Navigation, Regional Navigation Systems, GNSS Interoperability: Frequency Compatibility, GNSS Signals, Navigation Data Messages
- **INERTIAL NAVIGATION**: Inertial-Frame Navigation Equations, Earth-Frame Navigation Equations, Local-Navigation-Frame Navigation Equations, Navigation Equations Precision, Platform INS,
- **TERRESTRIAL RADIO NAVIGATION**: Point-Source Systems, Loran, Instrument Landing System, Urban and Indoor Positioning,
- **FEATURE MATCHING**: Terrain-Referenced Navigation, Sequential Processing, Batch Processing, Performance, Laser TRN, Barometric TRN, Sonar TRN, Image Matching, Scene Matching by Area Correlation
- **INS/GNSS Integration**: Integration Architectures, System Model and State Selection, Measurement Models, Advanced INS/GNSS Integration.

Faculty conducting this programme:

The programme will be conducted in online Live mode by the faculty member from IIITDM Kurnool,

Dr.K.Krishna Naik, Assistant Professor, Electronics and Communication Engineering department. Speakers from industries are also expected to deliver as part of the course for applications.

Eligibility:

Faculty members from AICTE approved institutions, Research Scholars, Industry personnel & PG students Participants fromthe Government and Industry

Registration Fee Particulars:

- **No registration fees**

How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the coordinator by email to krishnanaik@iiitk.ac.in as selection will be intimated only through email and Google form link will be provided in the www.iiitk.ac.in website link under "PROGRAMMES/ADMISSIONS".

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 200.

Requirements to get E-Certificate:

1. Smart phone with good internet facility
2. Minimum 80% attendance is required for the whole course
3. Minimum 60% marks should be obtained in the Final test to be conducted online at the end of FDP

Registration:

Participants can sign up and register for the program in AICTE ATAL

Website links:

- https://www.aicte-india.org/atal
- https://atalacademy.aicte-india.org/signup

Important dates:

Duration	7/26/2021– 7/30/2021

Mode of Delivery
Live web sessions through Online Platform

About ATAL:

ATAL Academy: AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies.

About IIITDM Kurnool:

Indian Institute of Information Technology, Design & Manufacturing, Kurnool (IIITDMK) is the youngest among the five centrally funded IIIT's. It is formed in compliance with the provisions of AP reorganization act 2017 and accorded the Institute of National Importance in 2017. The IIITDM Kurnool campus is located far away from the bustling life of the metropolis in the mineral-rich mountain trails of the Rayalaseema region of Andhra Pradesh. The campus is situated atop a hill that oversees Kurnool city. The place offers a perfect environment to nurture a peaceful state of mind required to carry out research and other student activities.

For any further enquiries':

Dr.K.Krishna Naik
Assistant Professor
Department. of ECE,
Indian Institute of Information Technology, Design and Manufacturing, Kurnool, Andhra Pradesh-518007.
Mobile: 91-8275203259