

Organised by:

Department of Physics
The University of Burdwan
Burdwan 713 104
West Bengal

Date: 21-25 September, 2021

Application Last Date:

13 September, 2021

Application Link:

<https://atalacademy.aicte-india.org/login>

Platform: Google Meet

Link will be shared with
selected candidates only

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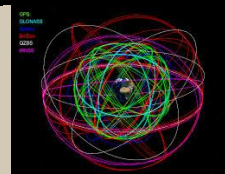
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5 Day Faculty Development Program (FDP) AICTE Training and Learning (ATAL) Academy GNSS/ NavIC and Applications



Global Navigation satellite system (GNSS) has become popular for myriads of applications due to the advantages of reliability, precision, availability and cost-effectiveness. Using satellite signals, GNSS provides accurate position, timing and velocity (PVT) information. As a result, multiple global (GPS from USA, GLONASS from Russia, Galileo from the European Union and Beidou from China) and regional (QZSS from Japan and IRNSS/ NavIC from India) systems are now operational. As per the GNSS Market Report (2019), the expected total GNSS business volume would be 2,525 billion Euros with applications sectors of consumer electronics, rail, road, aviation, maritime, surveying, logistics, agriculture, geomatics, timing and academic research. To maximize the use of multi-GNSS and to exploit the potential of NavIC, manpower training is required, that is aimed in this FDP.

The broad topics covered (not limited to) will be:

Basics of GNSS	Current Multi-GNSS situation
GNSS Positioning Methods	GNSS error sources
GNSS Positioning Applications	GNSS Timing Applications
GNSS and Atmospheric research	IRNSS/ NavIC: the Indian advantage
GNSS Business	GNSS data processing hands on.

Organizing Institution and Department:

The FDP is being organized by GNSS Laboratory, Burdwan (GLB) (<http://bugnss.in>), in the Department of Physics, The University of Burdwan. The laboratory has been developed with financial support from SAC-ISRO, DRDO, AICTE, ITR-DRDO, SERB-DST and is engaged in theory and application of GNSS and NavIC.

Speakers:

Swami Suparnanandaji Maharaj, Ramakrishna Mission Instt of Culture, Kolkata

Sh Atul P Sukla, Former SAC-ISRO

Dr Sweta Shah, SVNIT, Surat

Dr P Banerjee, Former NPL, New Delhi

Dr Ivan Petrovski, iP Solutions, Japan

Prof Andrei Kupriyanov, MIIGaiK, Russia

Dr Dinesh Manandhar, Tokyo Univ, Japan

Dr Saurabh Das, IIT, Indore

Mr Rainer Horn, SpaceTech Partners, Belgium

Dr Nirvikar Dashora, NARL, ISRO

Mr Varadarajan Krish, IIRA

Col V S Velan, Elena Geosystems

Dr Anindya Bose, BU

Industry Representatives (NTLab, Alberding, Trimble, Leica, more to confirm)

- Faculty members of the AICTE approved institutions, Research Scholars, PG Scholars, participants from Government, Industry from India can apply
- No registration fees. Completely online during 21-25 Sept 2021
- Maximum Participants: 200. For more details: <https://www.aicte-india.org/atal>
- To apply, go to: <https://atalacademy.aicte-india.org/login>, create your credentials/ login, select "Workshops", select "West Bengal" under state, select "September" under Month, scroll down and click on the + sign for the GNSS/ NavIC and Applications Course



Tentative Program Schedule

(21 - 25 September 2021)

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Date/ Day	11:00-11:45	12:00- 14:00	14:00-14:45	14:45-16:45
21/09/2021	Inauguration and Introduction	Introduction to GNSS (Session #1)	B R E A K	Current GNSS Constellations, NavIC and Indian Advantages (Session #2)
	10:00-12:00	12:00- 14:00		14:45-16:45
22/09/2021	GNSS Positioning Methods and QSSS (Session #3)	Galileo and Potentials (Session #4)		GLONASS and future (Session #5)
23/09/2021	GNSS Software Receivers (Session #6)	GNSS Error Sources, Interference and Multipath Issues (Session #7)		GNSS Applications for Time Transfer (Session #8)
24/09/2021	Value Education (Session #9)	GNSS Industry: Global and India (Session #10)		GNSS Industry: Product Showcasing by manufacturers (Session #11)
	10:00-12:00	12:00- 14:00		14:30-16:30
25/09/2021	GNSS for Atmospheric Research (Session #12)	GNSS for Atmospheric Research (Session #13)	GNSS Hands On (Session #14)	Evaluation and Valediction

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Department of Physics, The University of Burdwan: <http://phys.buruniv.ac.in>

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