



# ATAL Academy Sponsored Online Faculty Development Program on

## Modern Antenna Technologies for Futuristic Wireless Communication Systems

20<sup>th</sup> Aug - 24<sup>th</sup> Aug, 2021



Organized by :

Dept. of Electronics & Communication  
Engineering

Guru Jambheshwar University of Science &  
Technology, Hisar, Haryana -125001

### PATRON

Prof. Tankeshwar Kumar  
Hon'ble Vice Chancellor  
GJUS&T Hisar

### CONVENOR

Prof. Deepak Kedia  
Chairperson, Dept. of ECE  
GJUS&T Hisar

### COORDINATOR

Ms. Priyanka Dalal  
Assistant Professor, Dept. of ECE  
GJUS&T Hisar

### Contact

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### Eligibility

The faculty members of AICTE approved Institutions, Universities, research scholars; participants from Government, Industry (Bureaucrats/ Technicians/Industry experts etc.) and professionals from R&D labs.

### Registration Guidelines

There is **NO REGISTRATION FEE** for the program.

Registration Link : <https://atalacademy.aicte-india.org/>

#### Registration Process :

- Step 1: Sign up yourself with email id on ATAL portal.
- Step 2: Click on Workshops.
- Step 3: Filter the Workshop (Select state "Haryana", Month "August", Thrust Area "Engineering")
- Step 4: Click the plus sign button to register for the FDP on "Modern Antenna Technologies for Futuristic Wireless Communication Systems".

Last date of Registration : 16th August 2021

Maximum no. of participants : 200 (on first come first serve basis)

Award of E-Certificate : By ATAL Academy

Compulsory requirements for Certification : Minimum 80% attendance and 60% marks in the quiz at the end of the FDP

### About the University

Guru Jambheshwar University of Science and Technology, Hisar, Haryana started its journey on October 20, 1995 under Haryana State Legislative Act No. 17 of 1995. The University has been recognized by the University Grants Commission (UGC) under Section 2(f) for recognition of degrees since 11.1.1996 and under section 12(B) of the UGC Act to be eligible for central assistance since 7.2.1997. The university aims to impart education on the frontiers of Engineering and Technology, Pharmacy, Environmental Studies, Non-conventional Energy Sources, Mass Media and Management Studies. Today the university is rock standing on 372 acres of lush green land with 23 Teaching Departments classified in 10 Faculties for coordinated teaching in particular and effective governance in general. The University at present offers 55 Regular Programmes on campus including B.Tech, M.Tech, B.Pharm, M.Pharm, B.Physiotherapy, M.Physiotherapy, M.Sc, M.B.A, M.Com and M.C.A. etc. with Ph.D. degree programme in all the Departments. The University is 'A' Grade accredited by National Assessment and Accreditation Council (NAAC), since 2002. The University has been ranked 94th among the Universities/ Institutes in India as per National Institute Ranking Framework (NIRF). It has also been ranked between 6-25 in Atal Ranking of Institution of Innovation and Achievement (ARIIA) 2020 and in between 801-1000 in World University Ranking 2021 by Times Higher Education, UK. The university has also secured rank between 251-300 in the globally renowned Times Higher Education Young University Rankings 2021. The h-index (Scopus) of the university has gone upto 92 at present. For more detail please visit: <http://www.gjust.ac.in>

### About the Department

The Department of Electronics and Communication Engineering was established in year 2001 duly approved by AICTE. The department is committed to impart technical education in the most efficient manner to its students. Within a short span of its existence the department has equipped itself with most of modern facilities required for achieving excellence such as well-established library, ultra-modern laboratory supported by rich core faculty. During few years of existence only, the department has established itself as well-known entity in field of Electronics and communication engineering. The department offers B.Tech in ECE with an intake of 60 students/year, M.Tech with an intake of 20 students/year and Ph.D. The B.Tech program of department is also accredited by NBA.

## About the FDP

The main target of the FDP is to emphasize on present research developments in the areas of Microstrip patch antennas, SIW antennas, Dielectric resonator antennas, MIMO antennas, Antenna Technologies for 21st century satellite and ground communication, Multi-functional Active Antenna design, antennas for automotive applications, Millimeter-wave communication, etc. This FDP will provide ample opportunity to the participants to learn the fundamentals and recent developments in the above-mentioned domains. The eminent resource persons from premium organizations such as IITs and NITs and industry will be sharing their expertise to enrich the knowledge and skills of the participants.

## Distinguished Resource Persons

Dr. Sudhakar Rao, IEEE Life Fellow, Northrop Grumman Space Systems, USA.

Dr. Nacer Chahat, NASA JPL, USA

Dr. Ravi Kumar Gangwar, IIT Dhanbad

Dr. Raghvendra Chaudhary, IIT Dhanbad

Dr. Debdeep Sarkar, IISc Bangalore

Dr. Akhilesh Mohan, IIT Roorkee

Dr. Ashwani Sharma, IIT Ropar

Dr. Amit Kumar Singh, IIT Jammu

Dr. A. K. Gautam, GBPEC, Pauri Garhwal, Uttarakhand

Dr. Anupma Marwaha, SLIET Longowal, Punjab

Dr. Mukesh Khandelwal, JNU Delhi

Dr. Deepak Sood, UIET Kurukshetra

Dr. Naveen Jaglan, JUIT Wagnaghat, H.P

Dr. Umesh Arya, GJUS&T, Hisar

## Schedule of the FDP

Time Date	Session - I (9:15-11:15)	Session - II (11:30-1:30)	Session - III (2:30-4:30)
Day - 1 20 <sup>th</sup> August (Friday)	Key note address on Antenna Technologies for 21 <sup>st</sup> Century Satellite and Ground Communications <b>Dr. Sudhakar Rao</b> (Northrop Grumman Space systems, USA)	Advanced Antennas for Deep-Space Communications <b>Dr. Nacer Chahat</b> (NASA JPL, USA )	Performance Enhancement of MIMO Antennas using Frequency Selective Surfaces <b>Dr. Deepak Sood</b> (UIET, KUK)
Day - 2 21 <sup>st</sup> August (Saturday)	Dielectric Resonator Antenna: A Potential Radiator for Multiband/Wideband Antenna System <b>Dr. Ravi Kumar Gangwar</b> (IIT Dhanbad)	Circularly Polarised antennas for Automotive Applications <b>Dr. A.K. Gautam</b> (GBPIET, Pauri)	Physical, Emotional, Spiritual wellbeing - A Fundamental Right <b>Dr. Umesh Arya</b> (GJUS&T, Hisar)
Day - 3 22 <sup>nd</sup> August (Sunday)	MIMO Radar Antenna Technology: An Electromagnetic Perspective <b>Dr. Debdeep Sarkar</b> (IISc Bangalore)	Multi-functional Active Antenna Design <b>Dr. Raghvendra Chaudhary</b> (IIT Dhanbad)	Future trends and recent developments in Patch antenna design <b>Dr. Naveen Jaglan</b> (JUIT, Wagnaghat)
Day - 4 23 <sup>rd</sup> August (Monday)	Fifth Generation Millimeter-wave communication and Antenna Technology <b>Dr. Amit Kumar Singh</b> (IIT Jammu)	Some Modalities on Computational Electromagnetics for Complex Design <b>Dr. Anupma Marwaha</b> (SLIET, Longowal)	Antenna technology to wirelessly power the next-generation communication devices <b>Dr. Ashwani Sharma</b> (IIT Ropar)
Day - 5 24 <sup>th</sup> August (Tuesday)	SIW Antennas for Wireless Communication Systems <b>Dr. Akhilesh Mohan</b> (IIT Roorkee)	Antenna Fabrication and Measurement Techniques <b>Dr. Mukesh Khandelwal</b> (JNU, Delhi)	Valedictory Function, Online assessment and Feedback from attendees



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FUTURISTIC WIRELESS  
COMMUNICATION SYSTEMS**  
(20<sup>th</sup> August, 2021 - 24<sup>th</sup> August, 2021)

Eminent Experts of the FDP are :



Dr. Sudhakar Rao  
IEEE Life Fellow, Fellow IETE  
Senior Technical Fellow  
Northrop Grumman Space Systems, USA



Dr. Nacer Chahat  
Payload System Engineer  
NASA JPL  
California, USA



Dr. Ravi Kumar Gangwar  
IIT Dhanbad



Dr. Raghendra Chaudhary  
IIT Dhanbad



Dr. Debdeep Sarkar  
IISc Bangalore



Dr. Akhilesh Mohan  
IIT Roorkee



Dr. Ashwani Sharma  
IIT Ropar



Dr. Amit Kumar Singh  
IIT Jammu



Dr. A.K. Gautam  
GBPEC Pauri Garhwal



Dr. Anupma Marwaha  
SLIET Longowal



Dr. Mukesh Khandelwal  
JNU Delhi



Dr. Deepak Sood  
UIET Kurukshetra



Dr. Naveen Jaglan  
JUIT Wagnaghat



Dr. Umesh Arya  
GJUS&T Hisar

**Course Coordinator :**



Ms. Priyanka Dalal  
Dept. of ECE  
Assistant Professor  
GJUS&T, Hisar

**No Registration Fee**

Registration Link :  
<https://atalacademy.aicte-india.org/>  
For any query contact :  
Email : priyanka.dalal17@gmail.com  
Mobile No. : +91- 9467443934

**Course Convenor :**



Dr. Deepak Kedia  
Chairperson  
Dept. of ECE  
GJUS&T, Hisar