



**AICTE Training and Learning
(ATAL) Academy Sponsored
One Week Online
Faculty Development Program
(FDP)
On**

**"Devices for Modern Wireless
Communication Systems"**

**From
20th to 24th September 2021**

Organized By :

**Department of Electronics & Communication Engineering,
School of Studies (Engineering & Technology)
Guru Ghasidas Vishwavidyalaya (A Central University),
Bilaspur, C.G., India**

CHIEF PATRON



Prof. Alok Kumar Chakrawal
Honorable Vice Chancellor,
GGV Bilaspur

PATRON



Prof. Shailendra Kumar
Registrar, GGV Bilaspur

CONVENER



Prof. T.V. Arjunan
Dean, SoS (E & T),
GGV Bilaspur



Mrs. Anita Khanna
Head. Deptt. of ECE, GGV
Bilaspur

CO-ORDINATOR



Dr. Nipun Kumar Mishra
Asstt. Prof. (ECE)
GGV Bilaspur

CO-COORDINATOR



Mr. Chandan Tamrakar
Asstt. Prof. (ECE)
GGV Bilaspur

Registration Process

1. No registration fee will be charged from faculties and students.
2. Registrations can be done online using the link:
www.aicte-india.org/atal
3. Last date of registration is 15th September 2021.
4. Joining link for the online session will be shared to the registered participant on their Email.

About GGV Bilaspur

Guru Ghasidas Vishwavidyalaya is a Central University of India, located in Bilaspur C.G. State, established under Central Universities Act 2009, No. 25 of 2009. Formerly called Guru Ghasidas University (GGU), established by an Act of the State Legislative Assembly, was formally inaugurated on June 16, 1983. GGU is an active member of the Association of Indian Universities and Association of Commonwealth Universities. Situated in a socially and economically challenged area, the university is appropriately named to honor the great Satnami Saint Guru Ghasidas (born in 17th century), who championed the cause of the downtrodden and waged a relentless struggle against all forms of social evils and injustice prevailing in the society.

About ATAL Academy

All India Council for Technical Education (AICTE) through its newly established AICTE Training And Learning (ATAL) Academy have started unique faculty development programs in various thrust areas of modern technology. ATAL Academy successfully conducted 5 days face to face 190 FDP (Faculty Development programs) in nine thrust areas for A/Y 2019-20 and approximate 10000 faculty members. In 2020-21, 1000 online FDP are being conducted and more than one lakh participants have already participated including faculty, Research Scholar, PG students, CBSE teachers and Industry persons. The online FDP of 20-21 has been recognized as a world record by World Book of Record, London. This is also important that FDP sessions are recorded and available on portal so that anyone can learn in the future. ATAL Academy have also included 15 FDPs on blended learning and flipped classroom which is very important in post covid-19 scenario as to teach participants how to conduct classes in virtual mode and make them comfortable taking online exams and assignments. In the backdrop of announcement of National Education Policy (NEP) 2020, ATAL Academy is working in the direction of NEP, keeping in view the values and morals of Indian Education System. This is the largest online FDP program of the world where more than 40% female participants have joined.

About the ECE Department

Since its inception in 1998, the Department of Electronics & Communication Engineering has been imparting quality education towards B. Tech degree in the discipline of Electronics & Communication Engineering. The Department initially started with an intake of 40 students which grew to intake of 60 students but now with an annual intake of 75 students, as looking into the social needs and job opportunities available in the market. Department has created suitable laboratories and other instructional facilities to cater the need of academics. Department has been regularly upgrading the curriculum looking into the rapid changes in technology and industrial requirement. The department has well qualified and well-motivated staff. The research interests of the faculty members of the department encompass the wide area of applied and fundamental aspects of Electronics and Communication Engineering. The Department has strong research programme leading to Ph.D. degree in different fields of Electronics and Communication Engineering.

Objectives of FDP

1. To explore knowledge in the field of RF and Antenna
2. To explore the devices for modern wireless communication system
3. To share the knowledge of various expert in the field of modern Antenna and Communication technologies

Who can participate?

The program is open to all members of AICTE/UGC affiliated Institutes/Universities i.e. faculty Members/ Research Scholars/PG Scholars/ Government Employees /Industry Persons

Selection and Certification Criteria

Selection will be done based on first-cum first-serve basis and the confirmed candidate will be notified on receipt of registration form latest by 15th September 2021. The certificates shall be issued to those participants who are registered on ATAL portal www.aicte-india.org/atal and attend the program with minimum 80% attendance and score minimum 60% marks in the test.

Areas to be Covered

- Fundamentals of communication and Electromagnetics
- Advanced communication Technologies
- 5G Communication
- Internet of Things
- Planar Antennas
- Dielectric Resonator Antenna
- Metamaterials and its applications
- Antennas for Space Applications
- RADAR
- Photonics
- Planar Filters

Advisory Committee Members

Dr. Soma Das (Associate Professor, ECE)
Mrs. Bhawna Shukla (Assistant Professor, ECE)
Dr. P. S. Shrivastava (Assistant Professor, ECE)
Mrs. Beaulah Nath (Assistant Professor, ECE)
Mrs. Pragati Patharia (Assistant Professor, ECE)
Mr. Deepak Ku. Rathore (Assistant Professor, ECE)
Dr. Nikita Kashyap (Assistant Professor, ECE)

Organizing Committee Members

Mr. Shrawan Ku. Patel (Assistant Professor, ECE)
Mr. Sumit Kumar Gupta (Assistant Professor, ECE)
Mr. Jitendra Bhardwaj (Assistant Professor, ECE)
Mrs. Praveena Rajput (Assistant Professor, ECE)
Dr. Anil Kumar Soni (Assistant Professor, ECE)

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« Eminent Speakers »»



Prof K. V. Srivastava
IIT Kanpur



Prof Brahmjit Singh
NIT Kurukshetra



Dr Chinmoy Saha
IIST Thiruvananthapuram



Dr R K Gangwar
IIT (ISM) Dhanbad



Dr D K Vishwakarma
IIITDM Jabalpur



Dr Balwinder Singh
NITTTR Chandigarh



DR. Dr Pragnan Chakravorty
Principal Director , CARET



Dr Biswajeet Mukerjee
IIITDM Jabalpur



Dr Shrivishal Tripathi
IIIT Naya Raipur



Dr Prakash Ranjan
IIIT Bhagalpur



Dr Saurabh Kumar
NIT Hamirpur



Mr Sambhav Jain
DRDO



Mr Puneet Kumar Mishra
ISRO



Dr Agam Goswami
VIT A.P.



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Course Schedule

Date	10.00 AM to 12:00 Noon	12:00 Noon to 12:15 PM	12:15 PM to 2:15 PM	2:15 PM to 3:00PM	3:00 PM to 5:00PM
Monday 20/09/21	Inauguration & Session-01 Modern Devices and Techniques for Next Generation Wireless Communication Dr Pragnan Chakravorty Principal Director , CARET	Tea Break	Session-2 Metamaterial Inspired Antennas for Modern Wireless Applications: Concepts and State of the Art Techniques Dr Chinmoy Saha IIST Thiruvananthapuram	Lunch Break	Session-03 Antennas for 5G and IoT Dr Shrivishal Tripathi IIIT Naya Raipur
Tuesday 21/09/21	Session-04 Isolation Improvement in MIMO Antenna System Dr R K Gangwar IIT (ISM) Dhanbad	Tea Break	Session-05 Tetra band Planar Filter Dr Biswajeet Mukerjee IIITDM Jabalpur	Lunch Break	Session-06 Antenna Miniaturization: Techniques and Challenges Dr Saurabh Kumar NIT Hamirpur
Wednesday 22/09/21	Session -07 Nano Photonics Dr D K Vishwakarma IIITDM Jabalpur	Tea Break	Session-08 Synthesis of Metasurface : A Soft Computing Approach Dr Prakash Ranjan IIIT Bhagalpur	Lunch Break	Session 09 Flexible and Wearable Antenna Dr Balwinder Singh NITTTR Chandigarh
Thursday 23/09/21	Session-10 Broadband Metamaterial Absorber for Stealth Applications Prof K. V. Srivastava IIT Kanpur	Tea Break	Session-11 Next Generation Space Antenna System Mr Puneet Kumar Mishra ISRO Bengaluru	Lunch Break	Session-12 Stress Management & Wellness Dr Agam Goswami VIT A.P.
Friday 24/09/21	Session-13 Machine Learning in Wireless Communication Prof Brahmjit Singh NIT Kurukshetra	Tea Break	Session -14 Design & Measurements of RADAR Cross Section of Aerial Targets for Different Bands of RADAR Mr Sambhav Jain DRDO Hyderabad	Lunch Break	Interaction, Feedback and Valedictory session