

Registration Form

AICTE Training and Learning (ATAL) Faculty Development Programme on

**“A Pedagogy for Effective use of 5G
Communication Networks for Cloud Applications”**
13th – 17th July 2021.

1. Name.
2. Designation.
3. Department
4. Email-ID
5. Mobile No

The information provided by me is true to the best of my knowledge. I agree to abide by the rules and regulations governing the AICTE sponsored FDP on “A Pedagogy for Effective use of 5G Communication Network for Cloud Applications” Program. If selected, I shall attend the program for the entire duration.

Date:

Place:

Signature of the Applicant

Mr. /Ms. /Dr. _____ is an
Employee of our Institute and is hereby permitted
for the above One Week AICTE sponsored FDP

Date:

Place:

Head of the Institution

Chief Patrons

Sri A S Vishwanatha, President, NES, Shimoga
Sri T R Ashwathnarayana Setty, Vice President, NES,
Shimoga
Sri S N Nagaraja, Secretary, NES, Shimoga
Sri Amarendra Kireeti, Joint Secretary, NES, Shimoga
Sri C R Nagaraj, Treasurer, NES, Shimoga

Patrons

Dr. P. Manjunatha, Principal, JNNCE, Shimoga

Organizing Chair

Dr. Ushadevi M B, HOD, Dept. of ETE, JNNCE, Shimoga

Coordinators

Dr. Ushadevi M B, HOD, Dept. of ETE, JNNCE, Shimoga
Mr. Madhusudhan G, Asst. Prof., Dept. of ETE,
Mrs. Rashmi M Hullamani, Asst. Prof., Dept. of ETE

Organizing Committee

All Teaching and Non-Teaching staff of Electronics
and Telecommunication Engineering Department

Resource Persons

From eminent institutions like IISc, IIT's and
industry.

Address for Communication:

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National Education Society ®

J N N College of Engineering Shimoga – 577 204

[Affiliated to VTU Belagavi, Recognized by Govt. of
Karnataka, Accredited by NBA (All 7 UG Branches),
Accredited by NAAC and Approved by AICTE, New
Delhi]

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AICTE Training and Learning (ATAL) Faculty Development Programme

On

**“A Pedagogy for Effective use of 5G
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13th – 17th July 2021.

Organized by



Department of
Electronics and Telecommunication Engineering
Jawaharlal Nehru National College of Engineering,
Shimoga – 577 204

About The JNNCE

JNNCE was established in the year 1980 by the National Education Society. The college is affiliated to Visvesvaraya Technological University (VTU), Belagavi and recognized by AICTE, New Delhi and Government of Karnataka. JNNCE offers B.E., M.Tech., MBA and MCA programmes, as well as M.Sc. (Engg. by Research) and Ph.D. programmes. JNNCE has emerged as one of the most sought- after education destinations for technical and management education by students and parents from all over India. JNNCE is accredited with NAAC – B grade also All 7 UG programmes are Accredited by NBA and is now declared fit to receive central assistance in terms of rules framed under section 2(f) and 12(B) of the UGC act, 1956 under the head 'Non-Government Self- Financed colleges up to Master's degree. JNNCE has emerged as one of the institutions espoused to the cause of professional education, training and research. A New Initiative "Transformation for Excellence 2.0" has been launched for making JNNCE as one of the top engineering, research, innovation and enterprising institutes in next few years.

About the Department

The Department of Electronics and Telecommunication Engineering was started in the year 2000. The Department is accredited by National Board of Accreditation (NBA) for the period 2019 to 2022. The department has well qualified, experienced and dedicated faculty to provide quality industry tuned education to the students. The Department infrastructure fulfils the requirements of academics, supports research and learning skills on the latest technology in the industry. Many research related activities such as conferences, workshops and training programs are organized by

the department for both faculty and students. The department has IETE and ISF forums. The Institute of Electronics and Telecommunication Engineers (IETE) center is the national apex body of professional engineers devoted to the advancements of Electronics, Telecommunications, IT and allied areas.

Department Vision

To emerge as a center of academic excellence in the field of Telecommunication Engineering to impart quality education by keeping pace with rapidly changing technologies and industry requirements to create technical manpower of global standard for the betterment of industry and society.

Department Mission

- Impart knowledge and skills required for the latest and advanced engineering & technological processes in the field of Telecommunication.
- Instill creative thinking through innovative and team-based methods to develop employability, entrepreneurial traits and research capability among the students.
- Provide value-based technical education empowering the students with ethical and humane values addressing the needs of industries and the society.

About the FDP

This workshop aim to cover the design, analysis, implementation and optimization of 5G wireless systems based on the cutting edge mmWave MIMO, Massive MIMO and IoT technologies. These revolutionary technologies have enabled the realization of three key goals of 5G - data rates in excess of 10 Gbps, connectivity to support 1 million per square kilometre device density and sub millisecond latencies. In particular, mmWave MIMO will enable extreme

capacity and speeds by exploiting high frequency bands, while Massive MIMO can deploy a large number of antennas (250 – 500) to achieve a 10X increase in the number of multiplexed users. This enables participants to learn/enhance their knowledge about the basic concepts of 5G technologies and applications involved in Cloud. Domain experts will demonstrate the 5G tools/software and provide hands-on experience that are currently used in many practical applications for better understanding of 5G technologies.

Tentative Topics to be Covered (but not limited):

- Introduction to 5G
- Hands-on experience on 5G tools/ Software
- RF Design Considerations
- 5G Radio Access Technology
- Massive & mmWave MIMO
- Drivers for 5G
- Cloud API in 5G mobile technologies
- Cloud API wireless spectrum sharing in device positioning applications
- CR and SDR for 5G communication
- D2D communication for 5G Standards

Who can attend?

Faculty members/ research scholars/ PG scholar from academic institutes approved by the AICTE/ UGC/ MHRD working in Private/ Public/ Government organizations can attend the course.

Registration

No registration fee. The number of participants is limited to 200 on first come first serve basis.

Important Dates

Last Date for Registration: 12/07/2021

