TARGET AUDIENCE

The faculty members of AICTE approved Institutions, Universities, Research scholars, participants from Industry professionals.

REGISTRATION

Registration is mandatory for all the participants of the FDP. Number of participants is limited to 50. No registration fee for all the participants. The participants are requested to register in following ATAL link https://atalacademy.aicte-india.org/signup

CERTIFICATE OF PARTICIPATION

Minimum 80% attendance and securing minimum 70% mark in assessment and other research activities is mandatory to get the participation certificate. The participation certificate will be issued online through ATAL Academy portal to the eligible participants only.

IMPORTANT DATES

Last Date for submission : 21.07.2025
Intimation of Selection : 22.07.2025
Confirmation by Participants :25.07.2025

For further clarifications contact:
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ORGANIZING COMMITTEE

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. **COORDINATOR**

Dr. S . YUVARAJ

Associate Professor

Biomedical Engineering

CO COORDINATOR

Ms. J.VASANTHI

Associate Professor/Mathematics

AICTE Training and Learning (ATAL) Academy Sponsored Faculty Development Programme on

FUTURE OF CONNECTIVITY: EXPLORING THE NEXT GEN COMMUNICATION TECHNOLOGIES

28.07.2025 - 02.08.2025

ORGANIZED BY
CENTRE OF RESEARCH
PRINCE Dr. K VASUDEVEN COLLEGE OF ENGINEERING AND TECHNOLOGY

(AN AUTONOMOUS INSTITUTION
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ABOUT THE INSTITUTION

Prince Dr. K Vasudevan College of Engineering and Technology, promoted by the Prince Educational Society, was started in 2009. This College is affiliated to Anna University, Chennai and is approved by the All-India Council for Technical Education (AICTE), New Delhi and has been accredited with A+ grade by NAAC. Its vision is to make every student a success. Our College that is located on a sprawling and environment friendly area with very calm atmosphere, on the outskirts of Chennai provides conducive ambience for learning. Its about life-in all its dimensions: Educate Practice and Preach through the core values of "Truth, Love and Discipline". The Institute has an excellent infrastructure with a built- up area of 12102 sq. Meters. The laboratories are spacious and well equipped. They provide the best experimental learning facility to our students. The college maintains a strong placement record with a dedicated Training and Placement cell and promotes holistic development through various extracurricular activities fostering student growth beyond dynamics.

ABOUT THE DEPARTMENT

The Research Department at Prince Dr. K. Vasudevan College of Engineering and Technology fosters innovation and academic excellence. It encourages students and faculty to engage in groundbreaking research across various engineering disciplines, promoting interdisciplinary collaboration. The department aims to contribute to technological advancements and enhance the quality of education.

FDP CONTENTS

The FDP aims to provide in depth knowledge on the evolving landscape of cooperative communication. It covers key areas such as the rise of IoT, 6G, smart cities and the integration of AI and machine learning in communication systems. Participants will gain insights into privacy and security concerns, the role of SDN and VFN in network architecture and cutting edge research in underwater communication. The program also includes hands on training on 5G core connectivity, nano electronics, fiber optics, satellite networks and image processing techniques, fostering innovation and investment in future communication technologies.

OBJECTIVES OF THE FDP

- To explore the impact of next gen communication technologies such as IoT, transition from 5G to 6G, and SDN on global connectivity.
- To understand the role of cooperative communication ,AI and machine learning in shaping future systems.
- To gain practical experience in hands-on training, including 5G core and UERAN connectivity.
- To address key privacy and security challenges in the evolving communication landscape.
- To learn about the role of IPR in fostering innovation and investment in communication technologies.

OUTCOMES OF THE FDP

- A deep understanding of next generation communication technologies and their impact on connectivity is gained.
- A practical knowledge of IoT, SDN, and NFV in modern communication networks is developed.
- Hands on experience in advanced topics such as connectivity between 5G core and UERAN is acquired.
- Leveraging AI and machine learning for enhanced user experience is understood.
- Cooperative communication systems is understood in the transition of 5G to 6G.
- Gain insights into underwater communication and satellite networks.
- Understand the infrastructure changes from fiber optics to satellite communication.
- Learn techniques in image processing for enhancing real time connectivity.
- Develop skills in nanoelectronics and their application in next gen communication devices.