

INSTITUTE VISION

To produce technically competent engineers having innovative skills, positive attitude, leadership and professional ethics, with a focus on developing sustainable and new technology.

INSTITUTE MISSION

- Create a conducive environment for teaching, learning and innovation by providing state of the art infrastructure.
- Learn sustainable and new technologies through industry institute collaborations.
- Produce technically competent engineers with ethics, discipline and social consciousness through holistic education.

ECE DEPARTMENT-VISION

Graduates to be recognized in the field of Electronics & Communication engineering ensuring academic excellence with innovative technical skills and professional ethics.

ECE DEPARTMENT-MISSION

- Imparting quality technical education through innovative teaching learning process.
- Active association with industry to meet the growing challenges in the society.
- Develop overall competency with professional ethics by providing training programs.

PROGRAM EDUCATION OBJECTIVES (PEOs)

- PEO 1:** Develop the engineering design, problem-solving skills and aptitude for innovations in multi-disciplinary areas
- PEO 2:** Manage resources skillfully as members and leaders to solve complicated real world problems.
- PEO 3:** Be receptive to new technologies and attain professional competence through lifelong learning with Advanced degrees and other Professional Activities.

Note: Hard copy Certificates would be provided for regular Attendees.

Chief Patron

Dr.T.Venkat Vardhan, President, GVET
Mr. Rahoul Kengal Vardhan, Vice President, GVET
Mr. Rohahn Vardhan, Vice President, GVET

Patron

Dr. Syed Ariff, Principal, Dr. TTIT, KGF
Dr. Shenoy H.G, Vice Principal, Dr. TTIT, KGF

Organising chair

Prof. Ruckmani Divakaran, Dean (Academics),
Dr. TTIT, KGF

Convener

Dr. Jenitha A, HOD ECE, Dr. TTIT, KGF

Coordinators

Dr. K M Palaniswamy, Professor. Dr. TTIT, KGF
Prof. Jesudas J, Asst. Professor, Dr. TTIT, KGF

Organising committee

- Dr. Vijaya Geetha R , Assoc. Professor
- Dr. T Bhuvanendhiran, Assoc. Professor
- Prof. Tamil Vani R , Asst. Professor
- Prof. Rajesh Kumar Kaushal, Asst. Professor
- Prof. Mohana C, Asst. Professor
- Prof. Nandini G N, Asst. Professor
- Prof. Jeevika Mary A, Asst. Professor
- Prof. Deepa M, Asst. Professor
- Prof. Shankavi K, Asst. Professor
- Prof. Manjunath E, Asst. Professor
- Mr. Rajan R, System Admin

Programme Details

Mode of Conduction: Hybrid Mode

Registration Fee: Nil

Eligibility: Faculty Members from AICTE Affiliated Institutions, Research Scholars and Industry Representatives

Online Registration Form

<https://forms.gle/ewo8CbQTNRnvySyb8>



WhatsApp link

<https://chat.whatsapp.com/EkOMRGicbMJHnfluMpY3Js>



Dr. T THIMMAIAH INSTITUTE OF TECHNOLOGY, KGF

Oorgaum, Kolar Gold Field, Karnataka – 563120 (Affiliated to

VTU, Belgaum, Approved by AICTE - New Delhi

Accredited by NAAC & Accredited by NBA

(CSE, ECE & Mining Engg)

Six Days National Level Hybrid Mode Faculty Development Programme on

6G Futuristic Communication System Design and Implementation

10th to 15th February - 2025

Organized by

Department of Electronics & Communication
Engineering

Dr. T. Thimmaiah Institute of Technology,
Oorgaum (Post), Kolar Gold Field,
Karnataka-563120

Contact Persons

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2. **Prof. Jesudas J**
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About the Institute

Dr. T. Thimmaiah Institute of Technology (Formerly Known as Golden Valley Institute of Technology - GVIT) was started in the year 1986 at Kolar Gold Fields by Dr. T. Thimmaiah, Ph.D (London), IAS (Retired), as the founder President under the aegis of Golden Valley Educational Trust, with the sole purpose of imparting quality technical education.

Dr. T. Thimmaiah Institute of Technology is affiliated to Visvesvaraya Technological University (VTU) - Belagavi, Karnataka and is approved by the All India Council for Technical Education (AICTE) - New Delhi, NAAC Accredited 'A' Grade and at present offers Degree Courses in Engineering as given below. It has under graduate courses in Mechanical Engineering, Electrical & Electronics Engineering, Mining Engineering, Electronics & Communication Engineering, Computer Science & Engineering, Civil Engineering and CSE & AI ML.

About ECE Department

The Department of Electronics and Communication Engineering was started in the year 1993 with the idea of equipping young people with the necessary technical Knowledge and professional skills needed to address the challenges in the rapidly growing field of ECE and promoting research in this area headed by Dr. Jenitha A. The department is a dynamic and vibrant department with 15 highly qualified, experienced and dedicated faculty members. The department meets the growing requirement of practical design engineers in the country and abroad. The curriculum lays greater emphasis on design principles and development of communication models, signal processing, image processing, embedded systems and VLSI. The young, dynamic and dedicated faculty members have succeeded in establishing the highest standards of coaching the students and to equip them to face the future with confidence. The department is also successful in achieving VTU ranks.

QUOTE

“Be the change that you wish to see in the world.”

Mahatma Gandhi

About the Faculty Development Program

This FDP on 6G Communication System Design would provide knowledge on 6G's high data rates and low latency will enable real-time virtual reality and augmented reality experiences. The knowledge on low latency could be used for gaming, education, training, Autonomous driving and facilitate the utilization of technology for Remote surgery in future. This FDP would provide awareness on achieving Massive machine-to-machine (M2M) communication which involves millions of devices to operate simultaneously by utilization of 6G on IOT applications. 6G's high capacity will enable massive M2M communication.

FDP Agenda:-

Time	Topics	Resource Person
Day 1 (10/02/2025)		
09.30 AM – 10AM	INAUGURATION	
10AM - 1.00 PM	<ul style="list-style-type: none"> Wireless generation:5G leading to 6G 	Prof.C Murali Distinguished Fellow, IEE,India
Session Incharge:- Prof. Mohana C, Asst. Professor Dr. TTIT, KGF		
2 PM - 4.30 PM	<ul style="list-style-type: none"> 6G Vision Timeline to get 6G What will 6G looks like 	Dr.KM Palaniswamy Professor Dr.TTIT, KGF
Session Incharge:- Prof.Jeevika Mary, Asst. Professor Dr. TTIT, KGF		
Day 2 (11/02/2025)		
10AM - 1.00 PM	Shaping the Future of Communication: 6G Requirements and Cutting-Edge Technologies	Dr. Vinoth Babu Kumaravelu SENSE,VIT, Vellore
Session Incharge:- Dr. Bhuvanendhiran T, Associate. Prof. Dr. TTIT, KGF		
2 PM - 3.15 PM	Key Antenna Challenges in High-Frequency Wireless Systems: mm Wave and THz	Prof. Rajkumar V SENSE,VIT, Vellore
3.30 PM- 4.30 PM	Enhancing Connectivity with Massive MIMO: From 5G to the Future	Prof. Poongundran Selvaprabhu, SENSE,VIT, Vellor
Session Incharge:- Prof.Rajesh Kumar Kaushal, Asst. Professor Dr. TTIT, KGF		

Time	Topics	Resource Person
Day 3 (12/02/2025)		
10 AM - 1.00 PM	<ul style="list-style-type: none"> Network Architecture and Security Concepts lin 6G 	Dr Vijaya Geetha R, Associate Professor, ECE Dept, DrTTIT
Session Incharge:- Prof. Deepa B M , Asst. Professor Dr. TTIT, KGF		
2 PM - 4.30 PM	<ul style="list-style-type: none"> Role of AI in 5G evolution and 6G AI Applications Drivers for 5G and 6G 	Dr. T D Senthil Kumar, Professor, MSRIT, Bangalore
Session Incharge:- Prof. Shankavi K , Asst. Professor Dr. TTIT, KGF		
Day 4 (13/02/2025)		
10 AM - 1.00 PM	<ul style="list-style-type: none"> 4G, 5G/6G Advanced RAN theory Technology Enablers Real time use cases Architecture protocols 3GPP Specification PG Configuration 4G configuration HardwareInstallation 	Mr.Sriram Bugude, CEO, iSignal Research Labs, Bangalore
2 PM - 4.30 PM	<ul style="list-style-type: none"> Hands on session Log analysis-4G,5G Each layers 	
Sessions Incharge:- Prof. Manjunath E , Asst. Professor Dr. TTIT,		
Day 5 (14/02/2025)		
10 AM - 1.00 PM	Advanced full duplex strategies for 6G and Multiple access schemes suitable for 6G	Dr G N Kodanda Ramiah, Director, R &D, & Dr Rasa Durai, Professor, Kuppam Engineering Colleg
Session Incharge:- Prof. Nandini G N , Asst. Professor Dr. TTIT		
2 PM - 4.30 PM	Smart antennas for 6G	Dr. Nandhini V L Asst. Professor,Govt. SKSJTI, Bangalore
Session Incharge:- Prof. Jeevika Mary , Asst. Professor Dr. TTIT		
Day6(15.02.2025)		
10 AM - 12 PM	Roll on towards 7G	Dr Jenitha A, HOD, ECE Dept, DrTTIT, KGF
Session Incharge:- Prof. Mohana C, Asst. Professor Dr. TTIT		
12.00PM	Online Test	
1.00PM	Feedback & Valedictory	
Session Incharge:- Prof. Tamil Vani R , Asst. Professor Dr. TTIT, KGF		