



# Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

DEPARTMENT OF  
ELECTRONICS & COMMUNICATION ENGINEERING

## NEWSLETTER

### ECE-AUTRONICS

2021-2022

Volume-7, Issue-1



**Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY**  
(Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120  
(Affiliated to VTU, Belgaum, Approved by AICTE - New Delhi)

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

## ***AUTRONICS 2021-22***



### ***President's Message***

*Dr.T. Thimmaiah Institute of Technology has been serving many young engineering aspirants for more than three decades. The evolution of the institution for the past three decades has witnessed strong blend of state of the art infrastructure and human resources committed to provide professional education with thrust on creativity and innovation. Special emphasis is given to outcome based education. Our institution provides ample opportunities for the students to acquire both technical and life coping skills which would enable them to empower themselves as useful citizens.*

*We encourage our faculty members to take up research activities, to acquire knowledge, innovation and newer insights that makes teaching more vibrant and scientific.*

*I am extremely happy to release the newsletter of Electronics & Communication Engineering department and also confident that the editorial team has covered all the recent happenings in the campus.*

*I wish all the students to excel in all fields and make their parents, institution and nation proud.*

**-Dr.T. Venkat Vardhan,**  
President, GVET

### ***Principal's Message***

*I congratulate the Department of Electronics & Communication Engineering faculty for their achievements in the current academic year. I also congratulate the editorial team for their constant effort for the outcome of the newsletter.*

Dr. Syed Ariff

Principal

Dr. T. Thimmaiah Institute of Technology, KGF

### ***HOD's Message***

*The newsletter provides an overview of current activities that took place on our campus. The newsletter includes noteworthy accomplishments by the Department of Electronics & Communication Engineering, Dr. T. Thimmaiah Institute of Technology, KGF. I am delighted to publish the achievements of the Department of Electronics & Communication Engineering.*

Prof. Vijaya Bharathi M,

Associate Professor (HoD ECE)

### ***From the Editor's Desk***

*I congratulate the editorial team for release of seventh edition of newsletter. This newsletter brings out all the important achievements of faculty and students and other development activities under taken in the department. On behalf of the editorial committee, I thank our management for the support and encouragement rendered to keep up the standards of this edition of the newsletter.*

### ***Editorial Committee***

**Chief Editors:** 1. Prof. Vijaya Bharathi M, Associate Professor (HoD ECE)  
2. Dr. Jenitha A, Associate Professor

**Editor:** Prof. Mohana C, Assistant Professor

**Students Editors:** 1.1GV18EC007-Dharshini S      2.1GV18EC020-P.Koushik

## ***About the Department***

The Department of Electronics & 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 Electronics & Communication Engineering and promoting research in this area headed by Prof. Vijaya Bharathi M.

ECE department is a dynamic and vibrant department with highly qualified, experienced and dedicated faculty members. The curriculum in Electronics and Communication Engineering lays greater emphasis on design principles and development of Communication models, Signal Processing, Image processing, Embedded Systems and VLSI.

The young, dynamic and dedicated Staff members have succeeded in coaching the students and to equip themselves to face the future with confidence.

The major areas of faculty expertise of the department include Communication Systems, Computer Networks, Signal Processing, Image Processing, RF and Microwaves, and VLSI Systems. The department offers B.E in Electronics & Communication Engineering.

The department has various laboratories such as VLSI Design lab, Digital Signal Processing Lab, Circuits and Simulation Lab, Advanced Communication Lab, Computer Networks Lab, Microprocessor Lab, HDL Lab and Embedded Systems Lab to implement the required curriculum and skills.

The department also nurtures the inclination of the students towards Research and Development, besides giving them the necessary and sufficient backing of practical knowledge that they need. The Department provides access to high end software like Xilinx, Multisim, Code Composer Studio, Network Simulator, Cadence and MATLAB. Technical co-curricular and extra-curricular activities of the students include participation in Paper Presentation, Workshops, Seminars, Quiz, Technical competitions, Project Demonstration and participation in cultural activities and events in the institution.

## DR. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

### VISION

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

### 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.

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### VISION

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

### 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.

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AUTRONICS

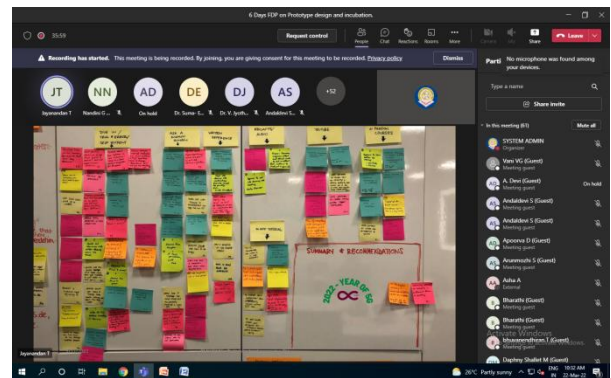
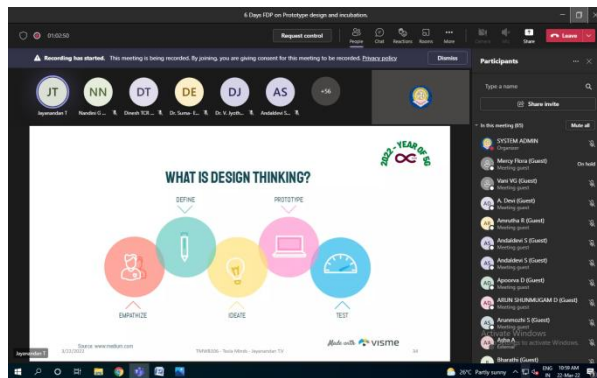


## DEPARTMENT ACTIVITIES

The department conducted various achievements like Faculty Development Program, Guest Lecture, seminar and webinar.

### FACULTY DEVELOPMENT PROGRAM (FDP)

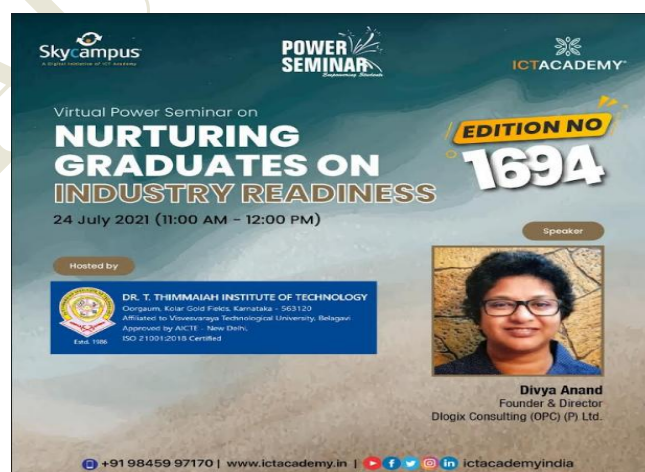
The department organized 6 days Virtual FDP on ‘**Prototype Designing and Incubation**’ from 21st to 26th March 2022.



### Online session on Prototype Designing and Incubation

### GUEST LECTURES/ WEBINARS /SEMINARS

- Online seminar on “Nurturing Graduates on Industry readiness” was delivered by Ms. Divya Anand, Founder & Director, Diogix Consulting (OPC) Pvt Ltd on 24.07.2021 the students of 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> semester students.



### Seminar on “Nurturing Graduates on Industry readiness”

- Webinar on “Digitalization and Application of AI in Industry” was presented by Mr.Naveen Sonkar, DGM, BEML LTD, KGF on 24.12.2021.

DR. T. THIMMAIAH INSTITUTE OF TECHNOLOGY  
OORGAUM, KOLAR GOLD FIELDS, KARNATAKA - 563120  
APPROVED BY AICTE, AFFILIATED TO VTU, BELGAUM

Department of Electronics & Communication Engineering  
**One day Webinar**

**"Digitalization and Application of AI in Earth moving Industry"**

On Friday 24.12.2021,  
Time 10.00AM -12.00PM

QR Code

Registration Link  
<https://forms.gle/GCECVdYATYoeYcB9>

Mr. Naveen Sonkar,  
DGM-R & D,  
Product Engineering  
Department,  
BEML Ltd, KGF  
Mobile No:94484 30606  
Email-ID- gep@beml.co.in

### Webinar on "Digitalization and Application of AI in Industry"

- A Webinar on "Learning Techniques and Memory Skills" was presented by Dr.Rajasekhar patil, Principal, Brindhavan Engineering College, and Bangalore on 05.01.2022.
- Online Webinar was presented by Dr.R.Gandhi, Vice Principal, Gnanamani College of Technology, Namakkal, Tamilnadu. "Prototype Validation Converting Prototype into a Start-up" on 23.08.2022.

Dr. T. Thimmaiah Institute of Technology  
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Institution Innovation Cell  
& Research and Development Cell(ECE)  
Jointly organizes  
National Level

**Session on Prototype Validation  
(Converting Prototype into a Start-up)**

Designer & Architect  
Dr.R.Gandhi, Vice Principal,  
Gnanamani College of Technology,  
Namakkal,Tamilnadu

Coordinator  
Prof.A.Jenitha,  
Project Coordinator,  
Dept of ECE, Dr.TTIT,  
KGF

Organiser  
Prof.M.Vijaya Bharathi,  
HOD/ECE,Dr.TTIT, KGF

ON  
**23.08.2021,  
3.00PM-4.30PM**

Registration Link: <https://forms.gle/H7oKBH9NnpVw97vv8>

### Webinar on "Prototype Validation Converting Prototype into a Start-up"

- One day webinar was presented by Dr. A K Varma (2008 Batch Alumnus) Assistant Professor, Department of ECE, KL University, Hyderabad organised on the title "Technology beyond LTE" on 18.06.2022.

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Department of ECE  
Research & Development Cell  
Organises  
**One Day Online Webinar**  
On

**Technology behind LTE**

Guest Speaker  
Dr.A K VARMA  
(2008 Batch Alumnus)  
Assistant Professor,  
Department of ECE,  
KL University,  
Hyderabad

Date:18.06.2022  
Time:11.00AM-12.30PM

### Webinar on "Technology beyond LTE"



- Online Webinar on “Awareness Programme on IPR” was presented by Mr. Abhishek Singh, Examiner of Patents and Design on 25.01.2022.
- One day webinar was presented by Mr. Rahul Bhanu Bhai, Asst Prof. Dept. of management Parul University Barada Gujarat on the title “How to write Research Paper and publication of papers” on 26-06-2022.

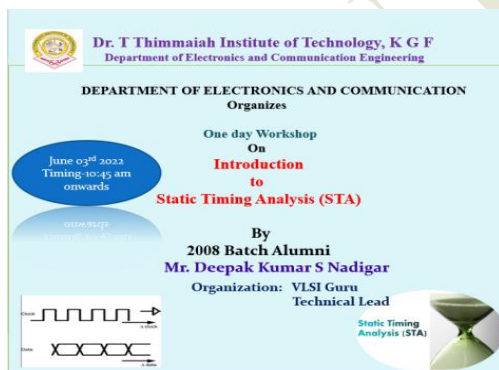
### WORKSHOP ORGANISED

- The department organized 5 days workshop on “IoT: Connecting Things, ML & its Applications, and Documentation using Latex” the presenters for the workshop were Dr. Jenitha A, Prof. Vijaya Geetha R, Prof. Rajesh Kumar Kaushal, Prof. Srinivas Babu N and Prof. Shashi kiran S, the event was conducted from 19 to 23-Apr-22.



### IOT: Connecting Things, ML & its Applications and Documentation using Latex.

- The department organised one day workshop on the title “Static Timing Analysis (STA)” 2008 batch alumni Deepak Kumar Nadigar, Technical Lead, VLSI Guru explained the importance of STA to the students on 03.06.2022.



Workshop on Static Timing Analysis (STA)

## INDUSTRIAL VISIT

- Industrial Visit was organised to BEML LTD, KGF on 26.11.2021 where Mr. D.Dominic Pishard, Asst manager-HR, BEML guided the 3<sup>rd</sup> Semester students during the visit.



*Industrial visit to BEML*

- Defence Exhibition was organized by BEML from 12/12/2021 to 13/12/2021 where 3<sup>rd</sup>, 5<sup>th</sup> & 7<sup>th</sup> Semester students visited the exhibition along with the faculty members.



**BEML Visit during Defence Exhibition**

- Industrial Visit was organised to “All India Radio Bangalore”, on 29.04.2022 where Mr.Metri, HR Manager, AIR, Bangalore guided the Semester students during the visit.



*Students and faculty during the visit to AIR*



## ALUMNI ACTIVITIES

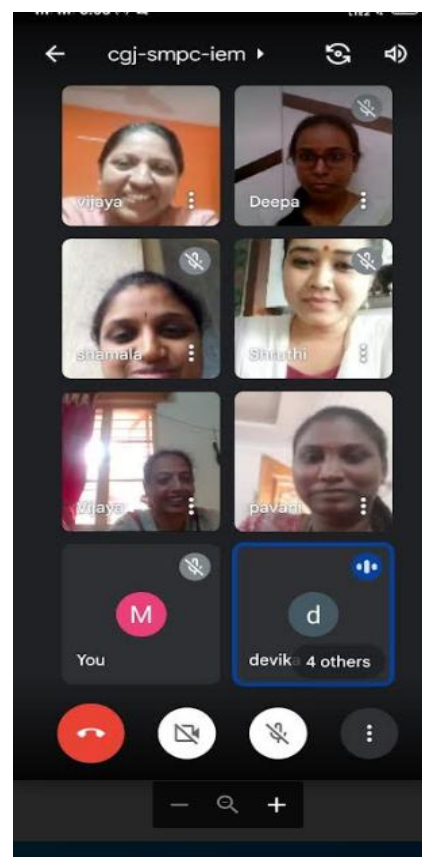
- Ms. Mary Stephina J, (2012-16 Batch ECE) and Ms. Suzan J (2014-18 Batch EEE) donated books to the department library. The books were received by Dr. N. Lakshmipathy, HOD, EEE alongside Dr. Manjunatha Babu N S, Secretary, Dr.TTIT Alumni Association, on 29th Jan 2022.



- The department organized online Alumni meet on 26-01-2022 for the 2006 batch Alumni.

Sl No.	Details
1	AshokReddy - <a href="mailto:ashokajayaram@outlook.com">ashokajayaram@outlook.com</a> - 7975789196
2	AfshiyaAriff - <a href="mailto:afshiyashariff@gmail.com">afshiyashariff@gmail.com</a> - 9900578035
3	PavaniHebbani - <a href="mailto:Pavanihs05@gmail.com">Pavanihs05@gmail.com</a> - 9742008999
4	PrashanthLingaiah - <a href="mailto:lingaiah.prashanth@gmail.com">lingaiah.prashanth@gmail.com</a> - 9886482209
5	Shyamala Joshi - <a href="mailto:shamalabjoshi@gmail.com">shamalabjoshi@gmail.com</a> - 8861836789
6	ShruthiC - <a href="mailto:shru_c@yahoo.com">shru_c@yahoo.com</a> - 9108549161
7	Deepa P R - <a href="mailto:dhriti08@gmail.com">dhriti08@gmail.com</a> - 9591002629
8	Devika - <a href="mailto:devikad61@gmail.com">devikad61@gmail.com</a> - 9900815632

Details of the alumni's who attended the meet



Screenshot Online Google meet for 2006 batch Alumni

- **Career Counseling by Alumni:** Mr.Revansidda & Ms.Sneha S (2017 batch Alumni) Counseled 6<sup>th</sup>sem students for career opportunities in **VLSI**.



*Mr.Revansidda & Ms. Sneha S (2017 batch Alumni) counselling the students*

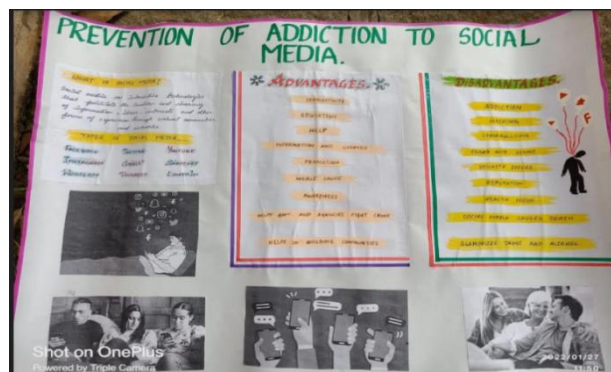
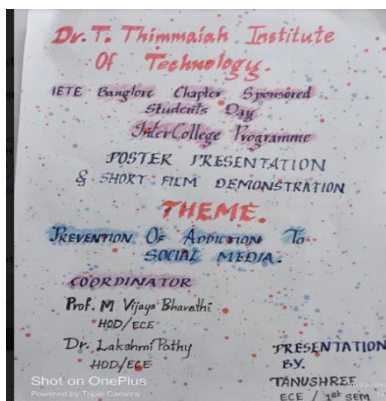
## EVENTS UNDER COLLEGE LEVEL

- Dr. T.T.T.I.T Organized National Virtual Project Exhibition “Dr.TTIT Project Expo-2022” in association with Institution’s Innovation Council on 29th June 2022. The students of the department participated in the event at college level and secured award for best project.



**Guide and students receiving the certificates for best project award during project Expo-2022**

- The department organized poster presentation in association with IETE on behalf of IETE student’s day celebration on 5.02.2022



*Poster presentation on IETE student’s day celebration*

## *Program Educational Objectives (PEOs)*

Graduates shall have the ability to

- PEO 1 :** Develop the engineering design, problem-solving skills and aptitude for innovations in multi-disciplinary areas.
- PEO 2 :** Manage resources skilfully 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, innovation and other Professional Activities.

## *Program Specific Outcomes (PSOs)*

Graduates will have the ability to

- PSO 1:** Apply the principles of Electronics in the field of VLSI and Embedded systems.
- PSO 2:** Apply the domain knowledge to design, analyze and develop optimal solutions in the field of Signal Processing and Communication with social concern.
- PSO 3:** Utilize acquired technical knowledge in Applied Electronics and multidisciplinary domains.


## *Program Outcomes (POs)*

At the end of the B.E program, students are expected to have developed the following outcomes:

Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation to the solution of complex engineering problems.

1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change





If any suggestions contact us  
[hod.ece@drttit.edu.in](mailto:hod.ece@drttit.edu.in)