

GOLDEN VALLEY EDUCATIONAL TRUST

Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

Oorgaum, KGF - 563 120.



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

TRICAL

NEWSLETTER 2023

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PRESIDENT MESSAGE

Dr.T. Thimmaiah Institute of Technology, a prestigious institution that has been shaping the future of engineering for over three decades, continues its journey towards excellence. Over the years, we have meticulously built a strong foundation of state-of-the-art infrastructure, coupled with an unwavering commitment to fostering creativity, innovation, and outcome-based education.

At Dr. TTIT, we believe in providing our students with holistic development opportunities-empowering them not only with technical knowledge but also with essential life skills that will help them become responsible and capable citizens. We also encourage our faculty members to actively engage in research, ensuring that our teaching methods remain dynamic, scientific, and relevant in today's ever-evolving world.

As I proudly present this edition of the Electrical & Electronics Engineering Department newsletter, TRICAL, I am confident that the newsletter will offer insightful reflections of the vibrant academic life at our institution.

I extend my best wishes to all our students as they continue their journey towards excellence. May they not only make their families and our institution proud but also contribute meaningfully to the development of our nation.



DR. T. VENKAT VARDHAN
PRESIDENT, GVET



Principal's Message

I extend my heartfelt congratulations to the faculty of the Department of Electrical & Electronics Engineering for their remarkable achievements in the current academic year. Their dedication and commitment to excellence continue to inspire students and contribute to the department's success.

I also commend the editorial team for their unwavering efforts in bringing out this newsletter, which serves as a testament to the department's progress and accomplishments. Wishing everyone continued success in all future endeavors.



Dr. Syed Ariff
Principal
Dr.T.T.I.T, KGF

HOD's Message

It is with great pride that we present the Electrical & Electronics Engineering Department Newsletter TRICAL for 2023-24. This edition showcases the remarkable achievements, events, and initiatives undertaken by our students and faculty.

We extend our gratitude to the faculty, students, and industry experts who have contributed to organizing many events successfully. The department has continued to foster an environment of learning and growth.

We hope this newsletter serves as an inspiration for continued excellence and innovation in the field of Electrical & Electronics Engineering.



Dr. N. Lakshmi pathy
HOD of EEE

From the Editors Desk

2023 brought with it a renewed sense of purpose and momentum, as engineering students embraced the post-pandemic academic environment. This year was marked by a growing interest in emerging technologies such as quantum computing, robotics, and electric vehicles. The technical achievements and various programs that are brought out in this edition of TRICAL have been a testament to the incredible talent and hard work of our students and staff. We thank our Management and administrators for their constant support and encouragement in all the initiatives in the department.



Prof. Ronald Lawrence. J
Assistant Professor

ABOUT THE DEPARTMENT

Electrical & Electronics department was established in 1986 and consists of 9 Faculty members who have done their UG & PG degrees from the top universities. The faculty members of this department are consistently doing well in teaching and research.

The department grew with time reflecting the needs of changing society and establishing new areas of teaching and research in Electrical Engineering .

VISION OF THE DEPARTMENT

To produce competent engineers having technical skills oriented towards sustainable development, human values, and professional ethics through comprehensive education in electrical engineering.

MISSION OF THE DEPARTMENT

M1 : To provide a conducive environment in which students can think, learn, and apply.

M2 : To provide technical expertise through hands-on experience on real world projects with a focus on sustainable development and professional ethics.

M3 : To inculcate a positive attitude and leadership qualities in students through co-curricular activities.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

PEO-1: Graduates will be successful in Electrical Engineering and trans-disciplinary areas by pursuing a career in industry and higher education.

PEO-2: Graduates will have the ability to solve societal and industrial problems with cutting-edge technologies in Electrical Engineering to achieve sustainable development in their professional careers.

PEO-3: Graduates will have the ability to apply technical, analytical, communication and ethical skills to ensure technological progress in their careers.

PROGRAM SPECIFIC OBJECTIVES (PSO)

PSO1: Ability to model, simulate, and analyze electrical and electronic components and systems using logical, technical, and programming skills.

PSO2: Ability to identify optimal solutions for industrial and domestic energy requirements using specific design and control strategies.

ICRTTEAS 2023

Papers presented in the 5th International Conference - ICRTTEAS 2023 held on May 19-20, 2023

1. Prof. Somashekar.B, along with Ms. Monal Yadav A, Ms. Sangeetha KR, Ms. Shreya Yadav MS, and Ms. Lavanya N presented a paper on Slam Robot Using Lidar Technology
2. Prof. Ronald Lawrence. J along with Mr. G Yashwanth kumar, Ms. Haritha S, and Ms. Vyshnavi K presented a paper on EV BMS With Charge Monitor and Fire Protection
3. Dr N Lakshmipathy. N along with Mr. Adarsh S Gowda, and Mr. Afreed Khan A presented a paper on Design And Development of Battery Charger
4. Dr N Lakshmipathy. N along with Mr. Dinesh C, Mr. Firose pasha R and Mr.Shiva Kumar K presented a paper on Design and Development of Wind Turbine

INDUSTRIAL VISIT

- On August 12th, 2023, an industrial visit was organized for the 4th semester students of Electrical & Electronics Engineering and Mechanical Engineering to Deccan Hydraulics Pvt Ltd.
- Approximately 50 students had the opportunity to participate in this enriching experience.
- During the visit, the students were guided through different departments of the company, providing them with a firsthand exposure to practical aspects and real-world applications. This visit aimed to bridge the gap between theoretical knowledge and practical implementation.
- Prof. Subhashini S, Asst. Prof., EEE and Dr. Manjunatha Babu N S, HoD, Mechanical Engineering Coordinated.

Project Expo 2023

Dr. TTIT Project Expo 2023 was held on 20.05.2023.

All final Year students participated and Ms. Monal Yadav and team won the 1st Prize for their project Slam Robot using LIDAR Technology, guided by Prof. Somashekar. B

PROGRAMMES

The Dr.TTIT IEEE Students Branch was inaugurated by Dr. T. Srinivas, Professor, IISC, Bangalore, on October 18, 2023. Chief Guest emphasized the importance of enhancing students' technical skills through the IEEE platform and also conducted a seminar on Quantum Information Technology, focusing on the emergence of Quantum Computing.



Chief Guest, Dr. T. Srinivas inaugurating IEEE Student Chapter

Farmers Awareness Programme

Farmers Awareness Programme was held in Gattakamedenahalli Gram Panchayat, K.G.F-563121 on 17.02.2023. The NSS Unit of Dr.TTIT, K.G.F in association with Ghattakamadenahalli Gram Panchayat, K.G.F Mr.Suresh Babu.S Chairman, Mrs. Bhagyamma.J Vice-chairman, Mr. Sreeram Reddy Panchayath Development Officer (PDO), Mr. Ashwath Narayan Secretary and all the panchayat members, K.G.F jointly conducted the programme.

The resource person for the programme was Dr. V.S Ravi Kumar, Asst. Director, Veterinary hospital, K.G.F has delivered an informative talk on Farmers Awareness Programme on Clean Milk Production and One Calf a Year under Unnat Bharat Abhiyan(UBA) Program at 11.00 am.

All the panchayat members, their staff members, student volunteers of 42 Nos. and villagers and farmers 23 members have attended have gathered for the programme



Dr. N. Lakshmi pathy, HOD, EEE giving awareness session to the farmers

Events on AIDS awareness

The NSS Unit of Dr. T.T.I.T in Association with Red Ribbon Club {Karnataka State AIDS Prevention Society (KSAPS)/ District AIDS Prevention and Control Unit (DAPCU)} invited all our students to participate on in the events such as i) Poster Design ii) Painting /Sketching iii) Power Point Presentation and iv) Pick and Speak were conducted on AIDS/HIV Prevention and Control. The Events were conducted on 09.03.2023.

21 students won in various competitions and received participation certificate with cash prizes: 1st Prize-Rs.300/-, 2nd Prize-Rs.200/- and 3rd Prize-Rs.100/-.

BLOOD DONATION CAMP

NSS unit of Dr. T.T.I.T in association with Unnat Bharat Abhiyan (UBA), Red Ribbon Club and Indian Red Cross Society, Kolar organized Blood donations Camp by Blood Bank of Government General Hospital, K.G.F on 16.06.2023. 43 Units of blood were collected.



EEE Students coordinating NSS Blood Donation Camp

ALUMNI INTERACTION

We are happy that our Alumnus Mr. Anil Kumar, Batch of 2000, Electrical & Electronics Engineering, working as the Head, Technical Services, TATA power, New Delhi, visited our college on 27th June 2023, met his teachers, reminisced his college days and interacted with the First-Year Electrical students. Dr. TTIT Alumni Association appreciates and thanks him for his time and efforts.



Mr. Anil Kumar along with Prof. Ronald Lawrence, J, EEE Alumni Coordinator and students

FDPs

Prof. Ronald Lawrence, J and Prof. Dhanalakshmi V completed 6 days online UHV-II- FDP organized by AICTE from 6th to 21st October 2023.

Prof. Sridevi, A completed Five days faculty development program on “Artificial Intelligence with Real Time Applications” Conducted from 16.10.2023 to 20.10.2023 by Nitte Meenakshi Institute of Technology.

One Day Workshop

The Department of Electrical and Electronics Engineering organized a One-Day Workshop on 'How to Plan for a Startup' on 14th July 2023 at the Mechanical Seminar Hall. Coordinated by Prof. Daphny Shallet M, the session featured Dr. Nijaguna Gurumurthy, Professor, MBA, Acharya Institute of Technology, Bangalore, who shared valuable insights on startup methodologies, business models, and entrepreneurial challenges. The workshop began with an inaugural session, followed by an interactive presentation covering key aspects of business ideation, market analysis, funding sources, and legal requirements. Students actively engaged in discussions and Q&A sessions, making the event highly informative and enriching.



Dr. Nijaguna Gurumurthy conducting the workshop

SKILL DEVELOPMENT COURSE

From 20th to 22nd July 2023, a comprehensive "Deep Drive into Python Libraries with Application Projects" skill development course took place at Dr TTIT Students Centre. The course was organized in collaboration with The Institution of Engineers (India) Kolar Local Centre, IETE, IQAC, and Institution Innovation Council.

The course aimed to equip students with practical knowledge and applications of Python libraries. Mr. Md Azhar Hussain, the CEO, and Mr. Vijay Kumar, Assistant Instructor, both from Indoskill (Aqmenz Automation Pvt Ltd.) in Bangalore, served as the expert instructors for the program. Dr. Manjunatha Babu N S, the HOD of Mechanical Engineering, coordinated.

The hands-on sessions during the course proved to be highly beneficial for the students, as they provided a deeper understanding of the concepts through practical experience.

The students of Electrical & Electronics Engineering and Mechanical Engineering streams participated.



Skill Development course on Deep Drive into Python Libraries with Application Projects

SOCIAL CONNECT AND RESPONSIBILITY

As part of the Social Connect and Responsibility course tree plantation activity was held in our campus on 09.12.2023 for the 2nd year students of the department of Electrical & Electronics Engineering



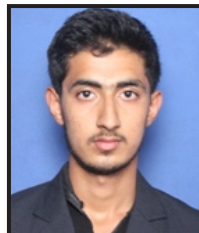
Students of EEE department along with the HOD Dr. N. Lakshmi pathy, during the tree plantation event

STUDENT'S ACHIEVEMENTS

Jayashree R of 3rd year has completed NPTEL course on Advanced Power Electronics and Control.

Thanushree S of 3rd year has completed NPTEL course on Data Analytics with Python.

CONGRATULATIONS TO THE PLACEMENT HOLDERS



FIROSE PASHA
1GV19EE004
WISTRON



SHIVA KUMAR K
1GV19EE011
WISTRON

BRANCH TOPPER 2022 - 23



Congratulations to Ms. Shamseena S (1GV19EE010), the Batch Topper of the Electrical & Electronics Engineering Department for 2022-23, with an outstanding CGPA of 8.74

Wishing you all the best in her future endeavors