



**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated by JNTUH,
Accredited by NBA & NAAC with 'A+' Grade)



ELECTRONICS AND COMMUNICATION ENGINEERING NEWS LETTER

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Website: <https://tkrcet.ac.in/> Email: info@tkrcet.ac.in



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1. PREFACE

Welcome to a world where electrons weave magic and waves carry wonders! Step into the pages of our newsletter, crafted by the brilliant minds of our Electronics and Communication Engineering family.

These pages pulse with the hum of innovation, the spark of circuits pushing the boundaries of possibility, and the harmony of waves bridging distances and connecting lives. It's a window into a universe where signals transcend barriers, semiconductors build futures, and antennas reach out to uncharted skies.

This newsletter is more than just a collection of words; it's an embodiment of our collective dreams, a testament to our relentless pursuit of knowledge, and our passion for exploration. It bridges the analog legacy of the past with the digital breakthroughs of today, leading us to the futuristic horizons of tomorrow.

From decoding the mysteries of VLSI to navigating the dynamics of communication networks, from celebrating our innovative projects to exploring the cutting-edge advancements in embedded systems, this newsletter reflects our shared journey—a beacon guiding us through the ever-evolving realm of electronics and communication.

We extend our heartfelt gratitude to our contributors, the wisdom of our faculty mentors, and the steadfast support of our peers. Together, we illuminate the path of discovery, fostering a community where ideas thrive and imagination knows no limits.

So, dear readers, fasten your seatbelts as we embark on this electrifying voyage. Let these pages energize your curiosity, spark discussions, and inspire you to be the trailblazers of the connected world.

Welcome aboard! The journey begins now.

2. MESSAGE FROM MANAGEMENT



**SRI TEEGALA KRISHNA REDDY
CHAIRMAN**



**SRI TEEGALA HARINATH REDDY
SECRETARY**



**SRI TEEGALA AMARNATH REDDY
TREASURER**

Unlock the frequency of innovation with our branch of Electronics and Communication Engineering! Our brilliant minds are designing the future, one circuit at a time. Join the journey of discovery, where signals transform into solutions. Embrace the power of knowledge, where tomorrow's tech pioneers in communication and electronics are forged today. Dive into the wave of technological evolution!

3. MESSAGE FROM THE PRINCIPAL



Dr. D.V. RAVI SHANKAR

PRINCIPAL-TKRCET

As the College Principal, I'm thrilled to witness the incredible potential within our Electronics and Communication Engineering domain, where innovation is not just a goal but our identity. Embrace the synergy of technology and creativity to spark groundbreaking advancements, as our community nurtures trailblazers shaping the future of communication and electronics. Let curiosity guide your exploration, perseverance power your progress, and knowledge serve as your foundation. Every circuit you design and signal you decode is a step toward transforming the world. Together, let's amplify our influence, leaving an indelible mark on the technological landscape. Your journey here is not just about acquiring knowledge but about driving innovation and shaping the future—seize every moment, embrace every challenge, and let's thrive together!



4. EDITORIAL

Dear Enthusiasts,

Welcome to the heart of innovation! Within these pages, immerse yourself in the collaborative synergy of our esteemed faculty and visionary student coordinators as we navigate the dynamic world of Electronics and Communication Engineering. Together, we nurture creativity and excellence, applying knowledge to redefine possibilities in areas like wireless communication, VLSI design, embedded systems, and signal processing. From groundbreaking research to impactful projects and vibrant events, our shared passion for shaping the future of technology drives us forward. Join this thriving community where expertise meets enthusiasm, innovation knows no bounds, and the spirit of exploration opens limitless possibilities.

FACULTY COORDINATORS

Dr. PADMAJA DEVI.
(Associate Professor)

Mrs.A.HARITHA
(Assistant Professor)

STUDENT COORDINATORS

ERETI PRIYANKA
(22K91A0446)

R.PRANEETH
(22K91A04K8)

5. ABOUT THE DEPARTMENT



DR.M. MAHESH

HEAD OF DEPARTMENT- ECE

Welcome to the vibrant hub of technological innovation at TKR College of Engineering and Technology! Established in 2002, our Electronics and Communication Engineering Department, under the visionary leadership of Dr. M. Mahesh—a distinguished academician with 22 years of teaching experience, a Master's degree from JNTU Hyderabad, and a Ph.D. in Image Processing from JNTUA, Anantapur—stands as a beacon of excellence. Nestled at the crossroads of tradition and advanced technology, the department thrives on pioneering research, innovative teaching methodologies, and a steadfast commitment to shaping future leaders in ECE. With state-of-the-art labs and a dynamic curriculum, we foster creativity, innovation, and problem-solving, empowering students to excel in areas such as signal processing, VLSI design, embedded systems, and wireless communication.



6. ACADEMIC EXCELLENCIA

"Embarking on the journey of academic excellence, our stellar achievers have illuminated the path to success with their unwavering dedication and brilliance. Join us in celebrating the remarkable achievements of our top scholars, whose relentless pursuit of knowledge has set a soaring standard in our academic community."

BACHELOR OF TECHNOLOGY

7. NEWS AND ACHEIVEMENTS

FACULTY BULLETIN

Highlights:

- ❖ The department of ECE is enriched with two more doctorates, Mr. A. Vikas & Mr. A. Teja who are the senior faculty, awarded with the Ph.D with the specialization “Micro Electronics and VLSI Design” from NIT Patna in August 2024.
- ❖ With this the department is now having a hand full of 10 doctorates, having 10+ years of experience in the same college.



Fig: Open Ph.D Viva-Voce of Mr.A.Theja & Mr.A.Vikas

❖ Patents (Granted)

- Dr. A Theja, Assoc. Professor of ECE, got a patent on the “*Heterojunction Vertical TFET Based Electrolyte pH Senso*” has been officially granted.

❖ Patents (Published)

- Dr. K. Padmaja Devi, Assoc. Professor, published a patent on “*A System and Method for AI-Enabled Analysis of Ocean Remote Sensing Imagery for Effective Navigation*” on 30.08.2024.
- Dr.P. Gayathri, Assoc. Professor, along with Dr. B. Swapna Rani, Assoc. Professor, published a patent on “*A System and Method Based on IoT and AI for Detecting Animals Alerting Drivers in Forest Highways*” on 5th September, 2024.



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▪ NPTEL STARS:

S.NO.	Name of the Institution / Teacher / Student	Name of the Award/ Recognition	Name of the Awarding Body/Agency (Government/Government-recognised agencies/bodies)	Month and Year of award
1	Dr.K.SUKANYA	NPTEL BELIEVER	IIT MADRAS	JUL-DEC-2024
2	Dr.K.SUKANYA	NPTEL ENTHUSIAST	IIT MADRAS	JUL-DEC-2024
3	GADIPARTHI ANITHA CHOWDARY	NPTEL DICIPLINE STAR	IIT MADRAS	JUL-DEC-2024
4	GADIPARTHI ANITHA CHOWDARY	NPTEL BELIEVER	IIT MADRAS	JUL-DEC-2024

❖ FDP s/Workshops/Conferences/ Attended by Faculty

S.No	Name of the Institution / Teacher / Student	Name of the Award/ Recognition	Name of the Awarding Body/Agency (Government/Go vernment-recognized agencies/bodies)	Month and Year of award
1	Dr.SUKANYA KURAPATI (PROGRAMMING, DATA STRUCTURES AND ALGORITHMS USING PYTHON)	ELITE+SILVER	IIT MADRAS	JULY-SEP 2024
2	Dr.SUKANYA KURAPATI (COMPUTER ARCHITECTURE)	ELITE+SILVER	IIT MADRAS	JULY-OCT 2024



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3	Dr. P. VENKATA LAVANYA (LEARNING ANALYTICAL TOOLS)	ELITE+SILVER	NPTEL, IIT BOMBAY	JULY-OCT 2024
4	G. ANITHA CHOWDARY (PROGRAMMING, DATA STRUCTURES AND ALGORITHMS USING PYTHON)	ELITE	IIT MADRAS	JULY-SEP 2024
5	G. ANITHA CHOWDARY (COMPUTER ARCHITECTURE)	ELITE	IIT MADRAS	JULY-OCT 2024
6	S.SWATHI (INTRODUCTION TO MACHINE LEARNING)	ELITE+SILVER	NPTEL, IIT KHARAGPUR	JULY-SEP 2024
7	ANNEPREDDY SNEHA (INTRODUCTION TO INTERNET OF THINGS)	ELITE	NPTEL, IIT KHARAGPUR	JULY-OCT 2024
8	M. INDIRA (INTRODUCTION TO INTERNET OF THINGS)	ELITE+SILVER	NPTEL, IIT KHARAGPUR	JULY-OCT 2024
9	SATYANARAYANA M (INTRODUCTION TO MACHINE LEARNING)	ELITE+SILVER	NPTEL, IIT KHARAGPUR	JULY-SEP 2024
10	PRABHAKAR ELE (INTRODUCTION TO INTERNET OF THINGS)	ELITE+SILVER	NPTEL, IIT KHARAGPUR	JULY-OCT 2024
11	PRABHAKAR ELE (PROGRAMMING, DATA STRUCTURES AND AGORITHMS USING PYTHON)	ELITE+SILVER	IIT MADRAS	JULY-SEP 2024
12	KANCHU SANTOSHI (FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE)	ELITE	IIT GUWAHATI	JULY-OCT 2024
13	ANNEPREDDY SNEHA (CLOUD	ELITE	NPTEL, IIT KHARAGPUR	JULY-OCT

	COMPUTING)			2024
14	M. INDIRA (CLOUD COMPUTING)	ELITE	NPTEL, IIT KHARAGPUR	JULY- OCT 2024
15	KANCHU SANTOSHI (FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE)	FDP	IIT GUWAHATI	JULY- OCT 2024

STUDENT BULLETIN

- Kondoju Ashwitha has successfully completed a 21 Days Master class on VLSI at Pantech e-Learning Pvt., Ltd, Chennai, from 02.07.2024 to 15.08.2024.
- Ereti Priyanka has successfully completed a 4 weeks of a virtual internship program in Web Development with wonderful remarks at CODSOFT from 15.08.2024 to 15.09.2024.

❖ Sports

- P.SANJAY, student of III year, ECE stood in 2nd top position in National Level Inter Engineering SPORTS FEST.



❖ Guest Lectures

- A Guest Lecture on Python programming was given by Mr. Sravan Kumar Reddy, Associate Professor, was organized for II Year students Aurora's Technological and Research Institute on 30th AUG, 2024.



❖ Industrial Visit:

- On 16-10-2024 14 students of ECE department were taken on an industrial visit to Capgemini by ICT (Information and Communication Technology) Academy.

