



**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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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

BOREDDY PRASHANTH
(19K91A0425)

KOTTHA HARSHITHA REDDY
(19K91A0493)

5. ABOUT THE DEPARTMENT



**Dr.D Nageshwar Rao
HOD &Professor**

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 a distinguished academican with 20 years of teaching experience, stands as a beacon of excellence. With a Master's from JNTU Hyderabad and a Ph.D. in VLSI from GITAM University, Vishakhapatnam, he has published numerous research papers in national and international journals and has guided several graduate and postgraduate projects, including two ongoing research scholars. His expertise extends beyond academics, having attended and organized various workshops and seminars, and he is frequently invited as a guest lecturer and resource person by reputed institutions. Notably, he was awarded the "Certificate of Merit" at NIET for two consecutive years, 2007 and 2008. 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, while fostering creativity, innovation, and problem-solving through state-of-the-art labs and a dynamic curriculum that empowers students 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

S.NO	NAME OF THE AUTHORS	TITLE OF THE PAPER	NAME OF THE JOURNAL	YEAR OF PUBLISH
1	A.LAVANYA	DOOR LOCKING AND UNLOCKING WITH ESP32 CAM AND BLYNK APP USING IOT	IJCRT(UGC CARE JOURNAL)	JUN-21
2	A.LAVANYA	IOT BASED WEARABLE PHYSIOLOGICAL PARAMETERS MONITORING SYSTEM	IJCRT(UGC CARE JOURNAL)	JUN-21

❖ FDP S ATTENDED BY FACULTY

S.N O	NAME OF THE FACULTY	FROM DATE	TO DATE	NO. OF DAY S	PARTICULARS	DETAILS OF TITLE
1	K SUDHA RANI	21.06.2021	26.06.2021	6	FDP AICTE SPONSORED	RESERACH AREAS IN BIOMEDICAL SIGNAL PROCCSSING
2	A.VIKAS	28.06.2021	02.07.2021	30	5 WEEK ONLINE EMPLOYABILITY ENHANCEMENT SUMMER SCHOOL ON VLSI	COMPUTER ARCHITECTURE AND SOC



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3	A.THEJA	28.06.2021	02.07.2021	6	5 WEEK ONLINE EMPLOYABILITY ENHANCEMENT SUMMER SCHOOL ON VLSI	COMPUTER ARCHITECTURE AND SOC
4	P MANGA RAO	01-02- 2021	06-02- 2021	6	STTP	MIXED SIGNAL DESIGN APPROACHES FOR ARTIFICIAL INTELLIGENCE PROCESSORS
5	P MANGA RAO	12-03- 2021	18-03- 2021	7	FDP	OPPORTUNITY,CHALLENGES AND RESEARCH TRENDS IN WIRELESS COMMUNICATION
6	P MANGA RAO	22-02- 2021	27-02- 2021	6	STTP	PYTHON BASED MACHINE LEARNING, FUNDAMENTALS TO APPLICATION