



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

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ELECTRONICS AND COMMUNICATION ENGINEERING NEWS LETTER

Frequency: HALF YEARLY

EDITION -2

July-December 2023(VOL.II)



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 TEGGALA KRISHNA REDDY
CHAIRMAN**



**SRI TEGGALA HARINATH REDDY
SECRETARY**



**SRI TEGGALA 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

K.ARUN KUMAR
(21K91A04B1)

G.NANDHINI
(21K91A0479)

5. ABOUT THE DEPARTMENT



**Dr.D Nageshwar Rao
B.Tech., M.Tech., Ph.D.
HOD & Professor**

Electronics & Communications Engineering

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 academician 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



❖ **NPTEL DOMAINS:**

- **Dr.K. Sukanya has successfully completed the Domain Certificate in Data Science at IIT Madras during the period October 2023.**

CONFERENCES ATTENDED BY THE FACULTY

S.NO	NAME OF THE AUTHORS	TITLE OF THE PAPER	NAME OF THE JOURNAL	YEAR OF PUBLISH
1	DR. SUKANYA K	HANDWRITTEN DIGIT RECOGNITION USING CONVOLUTIONAL NEURAL NETWORKS WITH VOICE	1 ST INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTATIONAL INTELLIGENCE (ICACI-2023) (INTERNATIONAL CONFERENCE)	DECEMBER , 2023
2	RNS KALPANA	SURVEY ON ROBUSTNESSES OF DEEP LEARNING TECHNIQUES ON ADVERSARIAL ATTACKS IN WBAN	MVAI(2023)	NOV-23

FDPS ATTENDED BY THE FACULTY

S.NO	NAME OF THE FACULTY	DATE	NO. OF DAYS	PARTICULARS (FDPS/STTPS/WORKSHOPS)	DETAILS OF TITLE
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1	A. HARITHA	31.07.2023 TO 04.08.2023	5	FACULTY DEVELOPMENT PROGRAM	VLSI TO SYSTEM DESIGN - SILICON TO END APPLICATION APPROACH
2	A. HARITHA	21.08.2023 TO 25.08.2023	5	FACULTY DEVELOPMENT PROGRAM	CLOUD INFRASTRUCTU RE
3	CH.DIVYA	21.08.2023 TO 25.08.2023	5	FACULTY DEVELOPMENT PROGRAM	CLOUD INFRASTRUCTU RE
4	CH.DIVYA	31.07.2023 TO 04.08.2023	5	FACULTY DEVELOPMENT PROGRAM	VLSI TO SYSTEM DESIGN - SILICON TO END APPLICATION APPROACH
5	CH.DIVYA	24-7-2023 TO 13-10- 2023	12 WEEKS	NPTEL- FACULTY DEVELOPMENT PROGRAM	INTRODUCTION TO INTERNET OF THINGS
6	A.THEJA	19.12.2023 TO 20.12.2023	2	FACULTY DEVELOPMENT PROGRAM	PAPER WRITING AND PRESENTATION WITH LATEX - HANDS ON TEXTSTUDIO
7	J.SRAVANT HI	31.07.2023 TO 04.08.2023	5	FACULTY DEVELOPMENT PROGRAM	OVERLEAF
8	J.SRAVANT HI	21.08.2023 TO 25.08.2023	5	FACULTY DEVELOPMENT PROGRAM	CLOUD INFRASTRUCTU RE
10	DR. P.VENKATA LAVANYA	24.07.2023 TO 15.09.2023	8 WEEKS	NPTEL-FACULTY DEVELOPMENT PROGRAM	INTRODUCTION TO MACHINE LEARNING
11	DR. P.VENKATA	24.07.2023 TO	12 WEEKS	NPTEL-FACULTY DEVELOPMENT	NATURAL LANGUAGE



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	LAVANYA	13.10.2023		PROGRAM	PROCESSING
12	K.SHALINI	21.08.2023 TO 25.08.2023	5	FACULTY DEVELOPMENT PROGRAM	CLOUD INFRASTRUCTUR E
13	K.SHALINI	09.11.2023 TO 11.11.2023	3	FACULTY DEVELOPMENT PROGRAM	EMERGING TRENDS IN VLSI DEVICE, CIRCUIT & SYSTEM DESIGN - A PRACTICAL APPROACH
14	B.SWAPNA	26/12/2023 TO 30/12/2023	1 WEEK	FACULTY DEVELOPMENT PROGRAM	RFIC DESIGN AND LOW POWER ANALOG CIRCUIT TECHNOLOGIES
15	B.SWAPNA	27/12/2023	1 DAY	WORKSHOP	ADVANCEMENTS IN VLSI INTERCONNECTS AND NANOSCALE DEVICES
16	A.VIKAS	26.12.2023 TO 30.12.2023	1 WEEK	FACULTY DEVELOPMENT PROGRAM	RFIC DESIGN AND LOW POWER ANALOG CIRCUIT TECHNOLOGIES
17	DR.M.GIRISH KUMAR	19.11.2023 TO 22.11.2023	4 DAYS	WORKSHOP	SEMICONDUCTOR S FOR 2030: OPPORTUNITIES & CHALLENGES
18	M.INDIRA	04.12.2023 TO 08.12.2023	5 DAYS	FACULTY DEVELOPMENT PROGRAM	MICROSOFT POWER BI DATA ANALYST ASSOCIATE
19	G.ANITHA CHOWDARY	03.01.2024	1 DAY	WORKSHOP	NPTEL E- AWARENESS WORKSHOP



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20	G.ANITHA CHOWDARY	18.12.2023 TO 22.12.2023	1 WEEK	FACULTY DEVELOPMENT PROGRAM	MACHINE LEARNING ESSENTIALS :APP PLICATION AND USE CASES
21	K.SUSHMA	31-07-2023 TO 04-08- 2023	5	FACULTY DEVELOPMENT PROGRAM	VLSI TO SYSYTEM DESIGN:SILICON TO END APPLICATION
22	K.SUSHMA	10-07-2023- 18-07-2023	18	FACULTY DEVELOPMENT PROGRAM	DEEP LEARNING FOR NLP AND COMPUTER VISION
23	G VENKATA SUBBA RAO	4/12/2023- 8/12/2023	1 WEEK	MICROSOFT POWER BI DATA ANALYST ASSOCIATE	DATA VISUALIZATION
24	A.LAVANYA	31.07.2023 TO 04.08.2023	5	FACULTY DEVELOPMENT PROGRAM	VLSI TO SYSTEM DESIGN - SILICON TO END APPLICATION APPROACH
25	K.SANTOSHI	31-07-2023 TO 04-08- 2023	5	FACULTY DEVELOPMENT PROGRAM	VLSI TO SYSYTEM DESIGN:SILICON TO END APPLICATION
26	K.SANTOSHI	10-07-2023 TO 28-07- 2023	18	FACULTY DEVELOPMENT PROGRAM	DEEP LEARNING FOR NLP AND COMPUTER VISION
27	B.SWAPNA	4/12/2023 TO 8/12/2023	1 WEEK	FACULTY DEVELOPMENT PROGRAM	MICROSOFT POWER BI DATA ANALYST ASSOCIATE
28	S.ANUSHA	18.12.2023 TO	1 WEEK	FACULTY DEVELOPMENT	MACHINE LEARNING



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		22.12.2023		PROGRAM	ESSENTIALS : APPLICATIONS AND USE CASES
29	DR .P.GAYAT HRI	10.07.2023 TO 28.07.2023	15 DAYS	INTERNATIONAL FACULTY DEVELOPMENT PROGRAM	DEEP LEARNING FOR NLP AND COMPUTER VISION
30	DR.K.PADMA JA DEVI	10.07.2023 TO 28.07.2023	15 DAYS	INTERNATIONAL FACULTY DEVELOPMENT PROGRAM	DEEP LEARNING FOR NLP AND COMPUTER VISION
31	DR.B.SWAPN A RANI	10.07.2023 TO 28.07.2023	15 DAYS	INTERNATIONAL FACULTY DEVELOPMENT PROGRAM	DEEP LEARNING FOR NLP AND COMPUTER VISION
32	K SUDHA RANI	10.07.2023 TO 28.07.2023	15 DAYS	INTERNATIONAL FACULTY DEVELOPMENT PROGRAM	DEEP LEARNING FOR NLP AND COMPUTER VISION
33	M CHAITANYA	31-8-23 TO 4- 8-23	5 DAYS	WORKSHOP	VLSI TO SYSTEM DESIGN : SILICON TO END APPLICATION APPROACH
34	M CHAITANYA	24.07.2023 TO 13.10.2023	1 WEEKS	NPTEL FACULTY DEVELOPMENT PROGRAMME	INTRODUCTION TO IOT
35	DR. SUKANYA K	18.12.2023 TO 22.12.2023	1 WEEK	FACULTY DEVELOPMENT PROGRAM	MACHINE LEARNING ESSENTIALS: APPLICATION AND USE CASES
36	DR. SUKANYA K	24.07.2023 TO 13.10.2023	12 WEEKS (10 DAYS)	NPTEL-FACULTY DEVELOPMENT PROGRAM	DEEP LEARNING - IIT ROPAR



37	DR. SUKANYA K	24.07.2023 TO 13.10.2023	12 WEEKS (10 DAYS)	NPTEL-FACULTY DEVELOPMENT PROGRAM	NATURAL LANGUAGE PROCESSING
38	DR. J. SUNITHA KUMARI	18.12.2023 TO 22.12.2023	1 WEEK	FACULTY DEVELOPMENT PROGRAM	MACHINE LEARNING ESSENTIALS: APPLICATION AND USE CASES
39	DR.P GAYATHRI	10/07/2023 TO 28/07/2023	2 WEEKS	FACULTY DEVELOPMENT PROGRAMME	DEEP LEARNING FOR NLP AND COMPUTER VISION
40	DR.K.PADMA JA DEVI	10/07/2023 TO 28/07/2023	2 WEEKS	FACULTY DEVELOPMENT PROGRAMME	DEEP LEARNING FOR NLP AND COMPUTER VISION
41	DR.B.SWAPN A RANI	10/07/2023 TO 28/07/2023	2 WEEKS	FACULTY DEVELOPMENT PROGRAMME	DEEP LEARNING FOR NLP AND COMPUTER VISION

STUDENT BULLETIN

- Nenavath Suresh, Bingi Pradeep, Trina Xavier, Vellanki Sridatta Murthy, Gajula Vasanth Kumar, and Kakkula Harsha Vardhan Sagar participated in the Artificial Intelligence event at Vaagdevi Institute of Technology and Sciences, on 08/11/2023.

STUDENTS ATTENDED TECHNICAL EVENTS OUTSIDE OF THE COLLEGE

S.NO	STUDENT NAME	NAME OF THE EVENT	INSTITUTE NAME & ADDRESS	DURATION
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1	MIRIDODDI VARSHITHA	VLSI	ANURADHA ENGINEERING COLLEGE,AMRAVATI	11/08/2023
	MUDRAKOLA DIVYASREE			
	NAKKA NIKHIL TEJA			
	NEMMADI SHIVA			
	PAIRALA SANJAY			
	VADDE GANESH			
2	AMBATI SURYA VAMSHI	DISTRIBUTED AMPLIFICATION	B V RAJU INSTITUTE OF TECHNOLOGY,NARSAPUR	Nov/23
	BALINA NEHA			
3	GANGARAPU RAKESH	ELECTRONIC WATCHDOG	ARMY INSTITUTE OF TECHNOLOGY	Oct/23
	SAI KUMAR REDDY U			
	GATTU SAHITH REDDY			
	HANCHATE DIVYA			
	K MUNEESHWAR REDDY			
	NALLAGONI SAI TEJA			
	M PAVANI			



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	MUSINI SAI CHARAN			
4	RAMYA MITTAPELLY	OPERATIONAL AMPLIFIER	JNTUA COLLEGE OF ENGINEERING,PULIVENDULA	Nov/23
	SETTI VASUDHA			
	SREEDHAR			
	THAMBAKU CHANDHU			
	VELIDANDI SRILEKHA			
5	YALLA SAMEERA REDDY	ADVANCED SIGNAL PROCESSING & COMMUNICATION	ETHIRAJ COLLEGE FOR WOMEN,CHENNAI	Dec/23
	VISAVARAM SREEJA			
	P LOKESH			
	T HARSHIKA			
	AKULA NIKITHA			
16	B UDAY KUMAR REDDY	MICRO CONTROLLER BASED MISSILE DETECTION & DESTROYING	RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS,ONGOLE	Nov/23
	BAYYAPU SAI PAVAN REDDY			
	CHANDANAGIRI SAI TEJA			
	DUGGE AJITH KUMAR			



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	GADUDAS SANDEEP			
7	BODDUPALLY KRISHNA SAI	INDUSTRIAL INTERNET OF THINGS	RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS,ONGOLE	Nov/23
	GOSKE BALA KISHORE			
	GUDEPU VAMSHI GOUD			
	BODA SRAVANI			
	DODDAPANENI MANASWINI			
8	JARUPLA DINESH	EMBEDDED SYSTEM FUNDAMENTAL & ADVANCES	ETHIRAJ COLLEGE FOR WOMEN,CHENNAI	Dec/23
	JUPAKA SWAYAM PRAKASH			
	KADARI KRUPA			
	KESHAMONI HARISH GOUD			
	LUNAVATH SRI RAM			
9	MIRIDODDI VARSHITHA	VLSI DEVICES & CIRCUITS FOR AI	ARMY INSTITUTE OF TECHNOLOGY	5-10-2023 to 6-10- 2023
	NAGIREDDY NITHIN REDDY			
	NALAMASA HARI RAJ			



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	GOUD			
	PAGADALA RADHIKA			
	KALAGONI RAGHU			
10	ARE RAHUL	DATA LOGGER	B V RAJU INSTITUTE OF TECHNOLOGY,NARSAPUR	Nov/23
	BANDARU ANVESH			
	CHANDANAGIRI SAI TEJA			
	GANGARAPU RAKESH			
	B AKHIL YADAV			
11	RAMYA MITTAPELLY	INTELLIGENT WIRELESS VIDEO CAMERA	COLLEGEG OF MANAGEMENT AND COMPUTERE SCIENCE, YAVATMAL	09/09/2023
	SHAIK SHAHEER			
	VEERAMALLA THRIVENI			
	GUNDEMONI ANIL			
	V SHIVA KUMAR			

S.NO	ROLL.NO	NAME OF THE STUDENT	CGPA
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1	20K91A0415	BALINA NEHA	9.17
2	20K91A0482	KARNATI KEERTHI	8.89
3	20K91A0460	HANCHATE DIVYA	8.84

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