



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

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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 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

BOREDDY PRASHANTH
(19K91A0425)

KOTTHA HARSHITHA REDDY
(19K91A0493)

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

- Dr. SUKANYA K was recognized as an NPTEL DISCIPLINE STAR for the July–December 2021 session.

FACULTY PUBLICATIONS

S.NO	NAME OF THE AUTHORS	TITLE OF THE PAPER	NAME OF THE JOURNAL	YEAR OF PUBLISH
1	M GIRISH KUMAR	IMPACT OF TEMPERATURE ON STRUCTURE DEFORMATION FOR MONOLITHIC INTER-TIER VIAS IN MONOLITHIC 3D IC PACKAGING SYSTEM	ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY (SCI)	NOV, 2021
2	M GIRISH KUMAR	A PROMINENT UNIFIED CROSSTALK MODEL FOR LINEAR AND SUB-THRESHOLD REGIONS IN MIXED CNT BUNDLE INTERCONNECTS	MICROELECTRONICS JOURNAL(SCI)	DEC, 2021
3	R.SAHITHI	A QUALITATIVE REVIEW OF RESEARCH METHODOLOGY:AN OVERVIEW	IJRASET(UGC CARE JOURNAL)	AUGUST, 2021



4	A.DEEPIKA	CREATING ARTIFICIAL ENVIRONMENT FOR HIGH PRODUCTIVITY OF PLANTS AND MONITOR USING IOT	IRJET(UGC CARE JOURNAL)	21-AUG
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CONFERENCES ATTENDED BY THE FACULTY

S.NO	NAME OF THE AUTHOR	TITLE OF THE PAPER	NAME OF THE CONFERENCE	YEAR OF PUBLISH
1	P.VENKATA LAVANYA	IMAGE DENOISING USING AN ARTIFICIAL NEURAL NETWORK AND GENETIC OPTIMIZATION ALGORITHM BASED DUAL-TREE COMPLEX WAVELET TRANSFORM	ICSCSP CONFERENCE	JUL-21

FDPS ATTENDED BY THE FACULTY

S.N O	NAME OF THE FACULTY	FROM DATE	TO DATE	NO. OF DAY S	PARTICULA RS	DETAILS OF TITLE
1	A.THEJA	13-12- 2021	17-12- 2021	5	FACULTY DEVELOPM ENT PROGRAM ME (FDP)	RECENT ADVANCES AND CHALLENGES IN NANOELECTRONICS DEVICES (RACND- 2021)



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2	J SRAVANT HI	27-09- 2021	01-10- 2021	5	FACULTY DEVELOPM ENT PROGRAM (ATAL FDP)	RECENT ADVANCEMENTS IN AUTOMATIC SPEECH RECOGNITION AND SPEAKER VERIFICATION
3	DR P GAYATHRI	20-09- 2021	30-09- 2021	11	FACULTY DEVELOPM ENT PROGRAM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING:REAL TIME APPLICATIONS
4	K SUDHA RANI	06.09.20 21	10.09.202 1	5	FDP(ATAL)	HYPERSPECTRAL REMOTE SENSING & ITS APPLICATIONS
5	K SUDHA RANI	21.06.20 21	26.06.202 1	6	FDP AICTE SPONSORE D	RESERACH AREAS IN BIOMEDICAL SIGNAL PROCSSING
6	K SUDHA RANI	12.11.20 21.	12.11.202 1.	1	WEBINAR	“APPLICATION OF REMOTE SENSING AND GIS ON SATELLITE MODELS,
7	K SUDHA RANI	16.10.20 21	15.11.202 1	30	NATIONAL LEVEL AWARENES S PROGRAM BY MSME	OF REMOTE SENSING AND GIS ON SATELLITE MODELS,
9	M.INDIRA	09-08- 2021	21-08- 2021	12	FACULTY DEVELOPM ENT PROGRAM ME (FDP)	FULL -CUSTOM DESIGN OF AN IC USING MENTOR GRAPHICS AND SYNOPSIS



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10	M.INDIRA	09-08-2021	14-08-2021	6	SHORT TERM TRAINING PROGRAM ME(AICTE)	SIMULATION WITH MATLAB FROM DEVICE TO CIRCUIT
11	M CHAITANYA	27-9-21	01-10-2021	5	FACULTY DEVELOPMENT PROGRAM (ATAL FDP)	RECENT ADVANCEMENTS IN AUTOMATIC SPEECH RECOGNITION AND SPEAKER VERIFICATION
12	A.LAVANYA	27-09-2021	01-10-2021	5	FACULTY DEVELOPMENT PROGRAM (ATAL FDP)	RECENT ADVANCEMENTS IN AUTOMATIC SPEECH RECOGNITION AND SPEAKER VERIFICATION
13	CH.DIVYA	27-09-2021	01-10-2021	5	FACULTY DEVELOPMENT PROGRAM (ATAL FDP)	RECENT ADVANCEMENTS IN AUTOMATIC SPEECH RECOGNITION AND SPEAKER VERIFICATION
14	R.SAHITHI	12.07.21	16.07.21	5	FACULTY DEVELOPMENT PROGRAM (ATAL)	FRAMEWORK FOR ONLINE ASSESSMENT
15	R.SAHITHI	09.08.21	14.08.21	6	FACULTY DEVELOPMENT PROGRAM (CVR COLLEGE)	5G AND EMERGING TECHNOLOGIES
16	R.SAHITHI	06.09.2021	10.09.21	6	FACULTY DEVELOPMENT PROGRAM (ATAL)	SIGNAL PROCESSING AND MACHINE LEARNING



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17	G.ANITHA CHOWDAR Y	06.09.20 21	10.09.21	5	FACULTY DEVELOPM ENT PROGRAM (ATAL)	SIGNAL PROCESSING AND MACHINE LEARNING
18	G.ANITHA CHOWDAR Y	30-08- 2021	04-09- 2021	6	SHORT TERM TRAINING PROGRAM ME(AICTE)	SIMULATION WITH MATLAB FROM DEVICE TO CIRCUIT
21	G.ANITHA CHOWDAR Y	09.08.21	14.08.21	6	FACULTY DEVELOPM ENT PROGRAM (CVR COLLEGE)	5G AND EMERGING TECHNOLOGIES
22	DR MAHESH	12.08.20 21	12.08.202 1	1	WEBINAR	INTELLECTUAL PROPERTY RIGHTS & PATENT FILING PROCEDURE
23	A.VIKAS	05.07.20 21	09.07.202 1	5	FIVE-DAY FDP – CUM - STTP	SIMULATION, MODELLING AND APPLICATION OF ADVANCED SEMICONDUCTOR DEVICES
24	S. BALAKRIS HNA	20.09.20 21	01.10.202 1	12	FACULTY DEVELOPM ENT PROGRAM (NITP)	SOFTWARE ROBOTIC PROCESS AUTOMATION (RPA)
25	B.PUREND ER REDDY	20.09.20 21	01.10.202 1	12	FACULTY DEVELOPM ENT PROGRAM (NITP)	SOFTWARE ROBOTIC PROCESS AUTOMATION (RPA)



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26	A.HARITH A	27-09- 2021	01-10- 2021	5	FACULTY DEVELOPM ENT PROGRAM (ATAL FDP)	RECENT ADVANCEMENTS IN AUTOMATIC SPEECH RECOGNITION AND SPEAKER VERIFICATION
27	B.SWAPNA	9-8-2021	21-08- 2021	12	FACULTY DEVELOPM ENT PROGRAM	FULL CUSTOM DESIGN OF AN IC USING MENTOR GRAPHICS AND SYNOPSIS
28	B.SWAPNA	09-08- 2021	14-08- 2021	6	STTP	SIMULATION WITH MATLAB FROM DEVICE TO CIRCUIT
29	K.SHALINI	01.12.20 21	07.12.202 1	6	FACULTY DEVELOPM ENT PROGRAM	MACHINE LEARNING IN BIOMEDICAL ENGINEERING
30	A.THEJA	28.06.20 21	02.07.202 1	6	5 WEEK ONLINE EMPLOYAB ILITY ENHANCEM ENT SUMMER SCHOOL ON VLSI	COMPUTER ARCHITECTURE AND SOC



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31	A.THEJA	05.07.20 21	09.07.202 1	5	FIVE-DAY FDP – CUM - STTP	SIMULATION, MODELLING AND APPLICATION OF ADVANCED SEMICONDUCTOR DEVICES
32	RNS KALPANA	22.8.202 1	3.9.2021	12	FACULTY DEVELOPM ENT PROGRAM	DEEP. LEARNING AND BIO MEDICAL SIGNAL PROCESSING
33	P MANGA RAO	01-02- 2021	06-02- 2021	6	STTP	MIXED SIGNAL DESIGN APPROACHES FOR ARTIFICIAL INTELLIGENCE PROCESSORS
34	P MANGA RAO	19-07- 2021	24-07- 2021	6	FDP	FDP MACHINE LEARNING ON CLOUD
35	P MANGA RAO	23-08- 2021	27-08- 2021	5	FDP	DIGITAL VLSI DESIGN AND VERIFICATION
36	P MANGA RAO	12-03- 2021	18-03- 2021	7	FDP	OPPORTUNITY,CHAL LENGES AND RESEARCH TRENDS IN WIRLESS COMMUNICATION
37	P MANGA RAO	22-02- 2021	27-02- 2021	6	STTP	PYTHON BASED MACHINE LEARNING, FUNDAMENTALS TO APPLICATION
38	M.CHAITA NYA	1/8/22	5/8/22	5	FDP	DESIGNING AND MODELLING OF IOT AI AND ML SYSTEMS



39	S. SAI SREE ANDAL	09-08- 2021	21-08- 2021	12	FACULTY DEVELOPM ENT PROGRAM ME (FDP)	FULL -CUSTOM DESIGN OF AN IC USING MENTOR GRAPHICS AND SYNOPSIS
40	S. SAI SREE ANDAL	09-08- 2021	14-08- 2021	6	SHORT TERM TRAINING PROGRAM ME(AICTE)	SIMULATION WITH MATLAB FROM DEVICE TO CIRCUIT
41	J SUNITHA KUMARI	20-09- 2021	30-09- 2021	10	FACULTY DEVELOPM ENT PROGRAM ME (FDP)	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING:REAL TIME APPLICATIONS

STUDENT BULLETIN

STUDENT PLACEMENTS

S.N O	STUDENT NAME	COLLEGE ROLL NUMBER	COMPANY NAME	APPOINTMENT NUMBER OR DATE	PACKA GE
1	GOUNI SHIRISHA	18K91A04 69	WIPRO	12-NOV-21	3.5 LPA
2	KOTHAPALLY NIKHIL REDDY	18K91A04 A6	COGNIZANT	2-NOV-21	4 LPA
3	SAI KIRAN MARUPATI	19K95A04 20	COGNIZANT	2-NOV-21	4 LPA

STUDENTS ATTENDED TECHNICAL EVENTS OUTSIDE OF THE COLLEGE :



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S.NO	STUDENT NAME	COLLEGE ROLL NUMBER	COMPANY NAME	APPOINTMENT NUMBER OR DATE	PACKAGE
1	GOUNI SHIRISHA	18K91A0469	WIPRO	12-NOV-21	3.5 LPA
2	KOTHAPALLY NIKHIL REDDY	18K91A04A6	COGNIZANT	2-NOV-21	4 LPA
3	SAI KIRAN MARUPATI	19K95A0420	COGNIZANT	2-NOV-21	4 LPA

TOPPERS

S.NO	HALL TICKET NO.	NAME OF THE STUDENT	CGPA
1.	18K91A04H8	RAPOLU VYSHNAVI	9.2
2.	18K91A04G9	PENUGONDA GOMATHI	9.03
3.	18K91A04B1	M PRATHYUSHA	9