



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

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Accredited by NBA & NAAC with 'A' Grade)



COMPUTER SCIENCE & ENGINEERING NEWS LETTER

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1. PREFACE

Step into our electrifying digital world, where innovation comes alive! Welcome aboard our newsletter, crafted by the genius minds of our Computer Science Engineering family.

These pages are overflowing with the rhythm of innovation, the beat of code that blasts through the limits of imagination, and the harmony of bytes conducting the future. It's a glimpse into a world where circuits hum tunes of possibility, algorithms write stories of transformation, and pixels paint the canvas of our dreams.

This newsletter is not just a collection of words; it's a symphony of our collective aspirations, a testament to our unyielding pursuit of knowledge and passion for discovery. It bridges the gap between the analog past and the digital present, and takes us on a quantum leap towards the uncharted horizons of tomorrow.

From unravelling the mysteries of AI to navigating the complexities of cyber security, from celebrating our budding developers to exploring the frontiers of software engineering, this news letter reflects our shared journey - a compass guiding us through the ever-evolving landscape of technology.

We are grateful to our contributors, the guiding lights of our faculty, and the unwavering support of our peers. Together, we light up the path towards innovation, creating a community where ideas flourish and creativity knows no bounds.

So, dear readers, buckle up as we embark upon this electrifying adventure. Let these pages fuel your curiosity, ignite conversations, and inspire you to be the architects of the digital age.

Welcome aboard! The journey starts now.

2. MESSAGE FROM MANAGEMENT



**SRI TEEGALA KRISHNA REDDY
CHAIRMAN**



**SRI TEEGALA HARINATH REDDY
SECRETARY**



**SRI TEEGALA AMARNATH REDDY
TREASURER**

"Unlock the code to innovation with our branch of Computer Science & Engineering! Our brilliant minds are shaping the future, one algorithm at a time. Join the journey of discovery, where bytes become breakthroughs. Embrace the power of knowledge, where tomorrow's tech leaders are born today. Dive into the digital revolution!"

3. MESSAGE FROM THE PRINCIPAL



Dr. D.V. RAVI SHANKAR

PRINCIPAL-TKRCET

"As the College Principal, I'm thrilled to witness the boundless potential within our Computer Science Engineering realm. Here, innovation isn't just a word; it's a lifestyle. Embrace the fusion of logic and creativity, for it births groundbreaking solutions. Our community breeds pioneers, shaping tomorrow's tech landscape. Let curiosity be your compass, resilience your fuel, and knowledge your armor. Remember, every line of code is a step toward progress. Together, let's amplify our impact, leaving an indelible mark on the digital frontier. Your journey here isn't just about learning; it's about pioneering the future. Seize every opportunity, and let's thrive together!"



4. EDITORIAL

Dear Enthusiasts,

"Welcome to the pulse of innovation! Within these pages, discover the collaborative synergy between our esteemed faculty and visionary student coordinators. Together, we traverse the ever-evolving landscape of Computer Science Engineering, nurturing creativity, and fostering excellence. Our journey isn't just about acquiring knowledge; it's about applying it to redefine boundaries. From groundbreaking research to dynamic events, witness our collective passion for innovation. We invite you to join this vibrant community, where expertise meets enthusiasm, and together, we sculpt the future. Embrace the spirit of exploration, for here, possibilities are limitless, and brilliance knows no bounds."

FACULTY COORDINATORS

A Pramod Reddy
(Associate Professor)

Mrs. K. Shirisha Reddy
(Assistant Professor)

STUDENT COORDINATORS

S Ritesh Jaiswal
(19K91A0516)

Anthi Reddy Karthik Reddy
(19K91A0513)

5. ABOUT THE DEPARTMENT



**DR. A. SURESH RAO
VICE PRINCIPAL
DEAN ACADEMICS
HEAD OF DEPARTMENT- CSE**

"Welcome to the vibrant hub of technological evolution at TKR College of Engineering and Technology! Established in 2002, our Computer Science Department, led by the visionary Dr. A. Suresh Rao, is a Professor in the Department of Computer Science & Engineering and was conferred with the PhD Degree in Computer Science & Engineering from NIT Warangal, in the year 2015. He is currently the Vice Principal, Dean of Academics and Head of the Department of Computer Science and Engineering at TKRCET. His experience spans across a period of 20 years; stands as a beacon of innovation and excellence. Nestled at the crossroads of tradition and cutting-edge technology, our department thrives on pioneering research, avant-garde teaching methodologies, and a commitment to shaping future tech leaders. Our state-of-the-art labs, driven by a dynamic curriculum, foster a culture of creativity and problem-solving.

Join us in exploring the endless possibilities in the ever-evolving landscape of computer science, where innovation knows no bounds!"



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

- Jerripothula Tejasri from IV Year, bearing Roll Number 17K91A0594, has topped the class with an impressive CGPA of 9.42.
- Chikati Sankeerthana & Injeti Naga Likitha Reddy from I Year, bearing Roll Number 20K91A0540 & '20K91A0564 ,has topped the class with an impressive CGPA of 9.16



7. NEWS AND ACHEIVEMENTS

FACULTY BULLETIN

Programs Organized

A workshop on "Recent Developments for Intellectual Property Rights" was conducted from 13th September 2021 to 18th September 2021. The event was led by **Prof. Raghava Rao** from KL University, providing valuable insights into the evolving landscape of intellectual property rights.

Faculty Publications

In 2021, several research papers were published by esteemed staff members across various renowned journals, contributing significantly to their respective fields of study.

A. Pramod Reddy published two papers: one in *ACM Transactions on Asian and Low-Resource Language Information Processing* titled "**Fusion Based AER System Using Deep Learning Approach for Amplitude and Frequency Analysis**" (ISSN: 2375-4702), indexed in SCI, and another in the *International Journal of Knowledge-Based and Intelligent Engineering Systems* titled "**Recognition of Human Emotion with Spectral Features Using Multi-Layer Perceptron**" (ISSN: 1875-8827), indexed in Web of Science.

Dr. CH. B. N. Lakshmi contributed to the *Journal of Engineering Sciences* with the paper "**Intrusion Detection System Using PCA with Random Forest Approach**" (ISSN: 2414-2498), and to *IETIR* with "Data Crawlers to Collect Data" (ISSN: 2349-5162), both categorized under other indexing systems.

Dr. M. Narender published his work titled "**Vote Casting Authentication**" in the *Journal of Engineering Sciences* (ISSN: 0377-9254), indexed in Scopus.

Dr. K. Satish Kumar made remarkable contributions with three papers: "**Evolutionary Computation Technique Combined with Ensemble Model for Classification of Diabetes**" in the *African Journal of Diabetes Medicine* (ISSN: 2042-8545), indexed in Web of Science; "**A Novel Stacking Technique for Prediction of Diabetes**" in *Computers in Biology and Medicine* (ISSN: 0010-4825), indexed in SCIE; and "**Multilayer Perceptron Back Propagation Algorithm for Prediction of Breast Cancer**" published by Springer (ISBN: 978-981-15-5399-8), indexed in Scopus.

Dr. Rajesh Banala contributed three papers: "**Real-Time Face Recognition Using Effective Supervised Machine Learning Algorithms**" in the *Journal of Physics* (ISSN: 1742-6596), indexed in Scopus; "**Prediction of Stock Market Using Machine Learning and Deep Learning Models**"



in *JES Publication* (ISSN: 0377-9254), indexed under UGC Care; and "**Energy Efficient Two-Tier Data Aggregation Scheme in Sensor Networks**" in Elsevier (ISSN: 2214-7853), also indexed in Scopus.

These publications showcase the diverse research endeavors of the staff, highlighting their expertise in areas such as machine learning, data analysis, deep learning, and medical diagnostics.

STUDENT BULLETIN

Publications

SN O	ROLL NUMBER	NAME OF STUDENT	TITLE OF THE PUBLICATION	NAME OF THE JOURNAL	MONTH DAY-YEAR
1	17K91A0594	JERRIPOTHULA TEJASRI	DATA CRAWLERS TO COLLECT DATA	JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)	JULY & 2021
2	17K91A05A5	K. SAI ABHINAV	DATA CRAWLERS TO COLLECT DATA	JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)	JULY & 2021
3	'17K91A0586	G. SAMYUKTHA	DATA CRAWLERS TO COLLECT DATA	JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)	JULY & 2021
4	17K91A0562	B. DILEEP	DATA CRAWLERS TO COLLECT DATA	JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)	JULY & 2021
5	17K91A05B2	KOLIMI DHARMA REDDY	DEVELOPMENT OF WEBSITE/APP FOR BUILDING CRM	JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)	JULY & 2021
6	17K91A0578	GVS SREYAS	DEVELOPMENT OF WEBSITE/APP FOR BUILDING CRM	JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)	JULY & 2021
7	17K91A0599	KALVA NIKITHA	DEVELOPMENT OF WEBSITE/APP FOR BUILDING CRM	JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)	JULY & 2021
8	17K91A0595	K NEHA REDDY	DEVELOPMENT OF WEBSITE/APP FOR BUILDING CRM	JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)	JULY & 2021
9	19K91D5813	BERA SRUJANA	COMPARISON OF MACHINE LEARNING ALGORITHMS FOR PREDICTING CRIME	JOURNAL OF ENGINEERING SCIENCES	JULY & 2021



			HOTSPOTS		
10	19K91D5812	PERALA KARISHMA	INTRUSION DETECTION SYSTEM USING PCA WITH RANDOM FOREST APPROACH	JOURNAL OF ENGINEERING SCIENCES	JULY & 2021
11	19K91D5811	BUTUL TABASSUM	VERSATILE DISPERSION OF SENSITIVE DATA IN ONLINE INTERPERSONAL ORGANIZATIONS	JOURNAL OF ENGINEERING SCIENCES	JULY & 2021
12	19K91D5806	SHRUTHI SHARMA	RECOGNITION OF VINDICTIVE SOCIAL BOTS IN TWITTER ORGANIZATION	JOURNAL OF ENGINEERING SCIENCES	JULY & 2021
13	19K91D5810	SAICHARAN KYATHAM	VOTE CASTING AUTHENTICATION USING BIOMETRICS	JOURNAL OF ENGINEERING SCIENCES	JULY & 2021

STUDENT BULLETIN

Placements

We are delighted to announce that our talented students have secured placements in top companies, showcasing their exceptional skills and dedication

S.NO	NAME OF THE STUDENT PLACED	ENROLLMENT NO.	NAME OF THE EMPLOYER	APPOINTMENT LETTER REFERENCE NO. WITH DATE
1	AKHILA JAKAMUKALA	18K91A0577	TCS	NOVEMBER 02, 2021
2	MADHURI MULA	18K91A05D3	HEXAWARE	12/23/2021
3	NAGELLI SRAVAN KUMAR	18K91A05D9	GOLDSTONE TECHNOLOGIES	12/22/2021

Workshops

A workshop was conducted on “Cyber Security and Ethical Hacking” for final year students for 3days