



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

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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 newsletter 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

- Yampalla Deekshitha from I year, bearing roll number 19K91A05L2, has topped the class with an impressive CGPA of 9.64
- Gundapuneni Sai Likhitha from II year, bearing roll number 18K91A0573, has topped the class with an impressive CGPA of 9.54
- Jerripothula Tejasri from III year, bearing roll number 17K91A0594, has topped the class with an impressive CGPA of 9.63



7. NEWS AND ACHEIVEMENTS

FACULTY BULLETIN

Publications:

In 2021, several impactful research contributions were made by faculty members in various prestigious journals.

B. Sunil Srinivas published his work titled "**Imperative Dynamic Routing Between Capsules Network for Malaria Classification**" in *CMC-Computers Materials & ContinuaTech Science Press* (ISSN: 1546-2218) on 22nd March 2021, categorized under others.

Dr. S. A. Kalaiselvan contributed a paper titled "**A Novel Framework for Evaluation of Trust in Mobile Adhoc Networks Using Flower Pollination Algorithm**" to the *Annals of R.S.C.B* (ISSN: 1583-6258), indexed in Scopus, on 4th March 2021.

Kuna Naresh and A. Pradeep co-authored a paper titled "**Traditional Duplicate Detection Using Progressive Algorithms With Improving Efficiency,**" which was published in the *Journal of Information Storage and Processing Systems* (ISSN: 1099-8047) on 1st January 2021, indexed under UGC.

These publications reflect the faculty's dedication to advancing research in fields such as malaria classification, mobile ad hoc networks, and data efficiency.

Patent Details

On 5th June 2021, a patent titled "**The Automatic Salt Segmentation Using Deep Learning Technique**" (Patent Number: 202141020582) was filed by **Dr. Vicky Nair and Dr. Rajesh Banala**.

This innovation highlights their expertise in applying deep learning techniques for automated salt segmentation, demonstrating significant advancements in this specialized domain.



STUDENT BULLETIN

A Workshop was organized on “Applications of Data Structures and Algorithms in Real time Applications” for final year students for 3 days