



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

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COMPUTER SCIENCE & ENGINEERING NEWS LETTER

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CONTENTS OF THE NEWS LETTER

1. PREFACE
2. MESSAGE FROM THE MANAGEMENT
3. MESSAGE FROM THE PRINCIPAL
4. EDITORIAL
5. ABOUT THE DEPARTMENT
6. ACADEMIC EXCELLENCE
7. NEWS/ACHIEVMENTS



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

Dr. K. Satish Kumar
(Associate Professor)

Mrs. K. Shirisha Reddy
(Assistant Professor)

STUDENT COORDINATORS

Mohammad Saqlain Danish
(21K91A05G5)

Mula Ruthik Reddy
(21K91A05H1)

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

We are proud to announce that

- S RITESH JAISWAL bearing roll number 19K91A0516 has emerged as the topper, demonstrating exceptional academic performance and outstanding dedication from IV year with CGPA of 9.1
- Waghmare Manisha from III YEAR bearing Roll Number 21K91A05R2 has topped the class with an impressive CGPA of 9.26
- Kanukurthi Mounika from IV YEAR bearing Roll Number 20K91A0577 has topped the class with an impressive CGPA of 8.66



7. NEWS AND ACHIEVEMENTS

FACULTY BULLETIN

Delighted to announce that our esteemed faculty member **Dr. N. Chandrakala garu** has been awarded a well deserved **Doctorate** in Cloud computing on 7th of June 2023 at **KL University** making a significant achievement in their academic journey and expertise

Patent Details

In 2023, several innovative patents were filed by faculty members, demonstrating their advancements in IoT and AI technologies.

On 17th March 2023, **Dr. M. Narender** filed a patent titled "**The Design of a Low-Cost IoT System for Automated Attendee Registration Based on Wireless Electronic Sensors**" (Patent Number: 202341011064A), focusing on cost-effective automation for attendee registration systems.

On 10th February 2023, **Dr. Vempati Krishna, Adulapuram Pradeep, and Dr. B. Sunil Srinivas** filed a patent titled "**AI and IoT-Based Smart Walking Stick for Visually Impaired with Alerting Unit**" (Patent Number: 379070-001), showcasing a smart assistive device for the visually impaired.

Dr. Chaganti B. N. Lakshmi filed a patent titled "**AI Protection Measures Against Artificial**" (Patent Number: 202341038228A) on 30th June 2023, introducing novel AI-based protection solutions.

On 28th April 2023, **G. Deepthi, V. Pragathi, A. Pradeep, and K. Shwetha Rani** filed a patent titled "**IoT-Based Sanitation Cabinet for Electric Devices**" (Patent Number: 385240001), focusing on IoT applications for maintaining hygiene in electric devices.

These patents highlight significant contributions to AI, IoT, and assistive technologies.



Programs Organized

A four-day Faculty Development Program (FDP) on "Advanced Excel, Power BI, and Tableau" was conducted from 13th March 2023 to 16th March 2023. The program was led by **Mrs. Sarojini Rani** from Mahavir Engineering College, providing participants with in-depth knowledge and practical skills in advanced data analysis and visualization tools.

Faculty Publications

In 2023, several notable research papers were published by faculty members in prestigious journals and conferences.

A. Pramod Reddy and **. K. Shirish Reddy** co-authored a paper titled "**Estimating the Effects of Voice Quality and Speech Intelligibility of Audio Compression in Automatic Emotion Recognition**" in *IJIGSP* (ISSN: 2074-9082), indexed in SCOPUS

Dr. Ch B N Lakshmi contributed to *JuniKhyat* (ISSN: 2278-4632, Vol 13, Issue 6) with her work on "**Text-Based Emotion Prediction System Using Machine Learning Approach,**" indexed in UGC.

P. RajyaLakshmi published a paper titled "**A Novel Machine Learning Approach for Person Identification and Validation Using Digital Forensics Methods**" in *ICSCSS* (ISBN: 979-8-3503-3360-2), and also authored "**Deep Learning Based NLP and LSTM Models for Sentiment Classification of Consumer Tweets**" in *ICETT* (ISSN: 0377-9254, Vol 14, Issue 05), indexed in UGC.

Dr. Ch B N Lakshmi also contributed to *Computers and Electrical Engineering* with "**Expert System for Smart Farming for Diagnosis of Sugarcane Diseases,**" indexed in SCIE.

SK. Mahaboob Basha and **Tulasi Ratnamani** co-authored a paper on "**Bibliometric Analysis on Identifying Plant, Crop Diseases Using Machine Learning and Deep Learning,**" published in *IJEERIOS* (DOI: 10.3233/ATDE221245, Volume 32: Recent Developments in Electronics and Communication Systems), indexed in SCOPUS.

Kuna Naresh published "**Intrusion Detection in Cloud Computing for Neural Network**" in *IJR* (ISSN: 2236-6124, Vol 12, Issue 6), indexed in UGC.

V. Pragathi contributed to *IJSRCSEIT* (ISSN: 2456-3307, Vol 10, Issue 4 with "**A Secured Data Storage in Cloud Computing Using Block Design-Based Key Agreement,**" indexed in UGC.

G. Anantha Lakshmi published a paper titled "**Blockchain and Machine Learning Models to Evaluate Faults in the Smart Manufacturing System**" in *IJSRST*, categorized under other indexing systems.

K. Satish Kumar authored a paper in the *Journal of Electrical Engineering and Technology* with a focus on cardiac disease prediction using a deep spectral time variant feature analytic model and soft max recurrent neural network in WSN IoT, indexed in SCIE.



K. Shwetha Rani published a paper in *IJSRST* titled "**Improvement of Agriculture Productivity Using Artificial Intelligence and Blockchain Technology**," indexed in UGC (Print ISSN: 2395-6011 | Online ISSN: 2395-602X).

These publications reflect a wide range of research efforts in areas such as machine learning, cloud computing, blockchain technology, and agricultural productivity.

STUDENT BULLETIN

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

Placements

S.NO	NAME OF THE STUDENT PLACED	ENROLLMENT NO.	NAME OF THE EMPLOYER	APPOINTMENT LETTER REFERENCE NO. WITH DATE
1	ADITI SHIVAJI CHOUDHARY	18K91A0504	PURESOFT	FEBRUARY 1 2023
2	ADLA SHIVARANI	18K91A0505	PURESOFT	FEBRUARY 1 2023
3	DILEEPKUMAR ALLAM	18K91A0513	PURESOFT	FEBRUARY 1 2023
4	CHINTHALAPATI V.S.P.K. SHASHANK	18K91A0540	PURESOFT	FEBRUARY 1 2023
5	CHEERA SRIKAR	18K91A0545	PURESOFT	FEBRUARY 1 2023
6	RAJITHA REDDY JALLAPURAM	18K91A0579	PURESOFT	FEBRUARY 1 2023
7	VAMSHI JULURI	18K91A0583	PURESOFT	FEBRUARY 1 2023
8	ADITYA KADAGALA	18K91A0587	PURESOFT	FEBRUARY 1 2023
9	ESHA REDDY KARRA	18K91A0595	PURESOFT	FEBRUARY 1 2023
10	KOMIRISHETTY.PRANITHA	18K91A05A0	PURESOFT	FEBRUARY 1 2023
11	LIKITHA BODDUPALLI	19K91A0531	GENPACT	2/22/2023
12	RAJU DAMERA	19K91A0555	MEDIA MINT	03-01-2023



13	GIRMILLA DHANASHRI	19K91A0579	PURE SOFTWARE	02-01-2023
14	GUJJA HAMSITHA	19K91A0582	MEDIA MINT	03-01-2023
15	BANOTH RAMESH NAYAK	19K91A0525	BYJUS	09-05-2023
16	VASAVI GANGISHETTY	19K91A0571	FACTSET	6/22/2023
17	PREETHI GATLEWAR	19K91A0577	ADP	09-04-2023
18	JAMPA SATYA VEERA SAI RAM HARSHITH	19K91A0589	TOUCAN	5/15/2023
19	K HARSHAVARDHAN	19K91A0592	ADP	4/26/2023
20	POOJITHA NOMULA	19K91A05E6	ADP	09-04-2023
21	SABILLA BHEEMA SAI SHANKAR REDDY	19K91A05G8	FUTURENSE	08-May-23
22	SATHVIK REDDY VALLAPUREDDY	19K91A05K3	ADP	09-04-2023
23	ANIL	20K91A0503	BPO CONVERGENC E PVT. LTD.	07-04-2023

Club activities

Mind Sparks student club

The aim of this club is to enhance the technical innovativeness of students by organizing the competitions on various technical levels in order to attract the interest of the students towards technical aspects of their education and all students are encouraged to join these clubs as the experience gained during their stint in these technical clubs will add the edge to their resumes going forward and help build expertise in the technical domains.

- 167 students participated in Quiz
- 170 students participated in Group Discussion
- 100 students participated in Programming contest