



**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 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

Gandham Nandini
20K91A0551

Sama Sai Santhosh Reddy
20K91A05G0

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 III Year, bearing Roll Number 19K91A05L2, has topped the class with an impressive CGPA of 9.2.



7. NEWS AND ACHEIVEMENTS

FACULTY BULLETIN

Patents

On 28th January 2022, a patent titled "**An Efficient FMMS for Fisheries Catchment in Ocean Using UWSN**" (Patent Number: 2022241001971A) was filed by **S. A. Kalaiselvan, Dr. Rajesh Banala, and Dr. Vicky Nair.**

This innovation showcases their work on utilizing underwater sensor networks (UWSN) for efficient fisheries catchment management in oceans.

Later, on 11th May 2022, **Dr. D. Anitha Kumari** filed a patent titled "**A Morphological Characters Based Oil Spill Detection from Radarsat-2 SAR Satellite Dataset**" (Patent Number: 202241027116A).

This patent demonstrates advancements in detecting oil spills using morphological analysis of SAR satellite data, addressing critical environmental challenges.

Faculty Publications

In 2022, numerous research papers were published by faculty members in esteemed journals, showcasing their contributions to diverse fields.

B. Sunil Srinivas published a paper titled "**DSCN-net: A Deep Siamese Capsule Neural Network Model for Automatic Diagnosis of Malaria Parasites Detection**" in *Multimedia Tools and Applications* (ISSN: 1380-7501), indexed in Scopus and UGC Care.

Y. Latha contributed a study titled "**A Study of Diabetic Retinopathy Using Convolutional Neural Networks**" to the *Journal of Instrumentation Technology & Innovations* (ISSN: 2249-4731), indexed in UGC.

Dr. K. S. R. Radhika authored multiple papers in *AIP Publications*, including "**Residue Analysis of Localization Images in Large Scale Solid State Physical Environments**" (ISSN: 0094-243X) and "**Smart Development in the Growth of Plants Using Hydroponics and Internet of Things**" (ISSN: 0094-243X), both indexed in Scopus. Additionally, she published "**Adaptive XGBOOST Hyper Tuned Meta Classifier for Prediction of Churn Customers**" in *AIP Publications* (ISSN: 1079-8587 / 2326-005X), indexed in SCI.



Nelli Chandrakala reviewed security and privacy issues in cloud computing in a paper titled "**A Review on Security and Privacy Issues in Cloud Computing,**" published in the *Journal of Emerging Technologies and Innovative Research (JETIR)* (ISSN: 2349-5162), indexed in UGC.

Vempati Krishna contributed a paper on machine learning titled "**Machine Learning Algorithms for Crop Diseases Diagnosis and Identification,**" published in *IJFANS.org* (ISSN Print: 2319-1775, Online: 2320-7876), indexed in UGC Care.

These publications reflect the faculty's extensive research in areas such as medical diagnostics, data security, agricultural technology, and machine learning.

STUDENT BULLETIN

Placements

S.NO	NAME OF THE STUDENT PLACED	ENROLLMENT NO.	NAME OF THE EMPLOYER	APPOINTMENT LETTER REFERENCE NO. WITH DATE
1	AKSHITH ARELLI	18K91A0519	ADP	3/30/2022
2	MEGHANA AREPALLI	18K91A0520	WIPRO	3/26/2022
3	AVUNOORI SAI SUJAY	18K91A0521	DBS	3/18/2022
4	PAVANSAI BELLAM	18K91A0533	WIPRO	3/25/2022
5	SRAVAN KUMAR GOUD BODDU	18K91A0536	WIPRO	JANUARY 20 2022
6	VANI KRISHNA	18K91A0539	ADP	04-01-2022
7	TEJASREE CHATLAPALLI	18K91A0544	WIPRO	JAN 24,2022
8	LAVANYA CHEGONDI	18K91A0546	WIPRO	JANUARY 20 2022
9	SAI LIKHITHA GUNDAPUNENI	18K91A0573	ADP	04-01-2022
10	PAVAN SAI GUNDARAM	18K91A0574	WIPRO	JANUARY 20 2022
11	JOGU POOJA	18K91A0582	WIPRO	JANUARY 20 2022
12	PRASHANTH	18K91A0585	CLOUD 4C	1/19/2022
13	KETOLU RAJU	18K91A0599	WIPRO	JAN 20,2022
14	KUNCHALU INDU	18K91A05A6	WIPRO	JANUARY 20 2022
15	MEDAPU HARISH KUMAR	18K91A05B8	WIPRO	JANUARY 20 2022
16	MEGHA THAKUR	18K91A05C3	WIPRO	1/25/2022
17	PRANAV PALLERLA	18K91A05F7	DBS	2/23/2022
18	VARSHA BINDU PARIPELLI	18K91A05F9	WIPRO	1/22/2022
19	PITLA MADHUSUDHAN	18K91A05G2	ASPIRE SYSTEMS	MARCH 07 2022
20	AKHIL RENUKUNTA	18K91A05H8	WIPRO	3/22/2022
21	SUNKIREDDY BHARGAVI	18K91A05K6	WIPRO	3/21/2022



22	RAJINI SUPE	18K91A05K7	WIPRO	04-02-2022
23	SRAVANI VAJJA	18K91A05M2	ASPIRE SYSTEMS	MARCH 07 2022
24	VIKAS VYAS	18K91A05M8	ADP	28-Mar-22
25	SINDU	18K91A05N5	MEDIAMINT	2/14/2022
26	YENMANGANDLA SANTHOSHI	18K91A05P2	WIPRO	1/22/2022
27	AKSHAYA INDLA	19K95A0504	WIPRO	1/21/2022
28	SAI GANESH	19K95A0508	DBS	3/21/2022
29	GATTU SRI HARSHITHA	19K95A0570	WIPRO	1/20/2022

Publications

SN O	ROLL NUMBER	NAME OF STUDENT	TITLE OF THE PUBLICATION	NAME OF THE JOURNAL	MONTH DAY- YEAR
1	18K91A05K6	SUNKIREDDY BAHARGAVI	A STUDY OF DIABETIC RETINOPATHY USING CONVOLUTIONAL NEURAL NETWORKS	STM JOURNALS	JUNE&2022
2	'18K91A05N4	Y.K.D NAGA PRIYA	A STUDY OF DIABETIC RETINOPATHY USING CONVOLUTIONAL NEURAL NETWORKS	STM JOURNALS	JUNE&2022
3	18K91A05L2	THADURI VINAY	A STUDY OF DIABETIC RETINOPATHY USING CONVOLUTIONAL NEURAL NETWORKS	STM JOURNALS	JUNE&2022
4	19K95A0520	SABAVAT SRINIVAS	A STUDY OF DIABETIC RETINOPATHY USING CONVOLUTIONAL NEURAL NETWORKS	STM JOURNALS	JUNE&2022