

EDITION-2
JUL-DEC
2024

The Digital Dispatch

THE ENGINEERING DIGEST

NEWSLETTER
DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING



TKR COLLEGE OF ENGINEERING &
TECHNOLOGY



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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 unraveling the mysteries of AI to navigating the complexities of cybersecurity, 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.

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MESSAGE FROM MANAGMENT



**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!"

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MESSAGE FROM 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!"

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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)

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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!"

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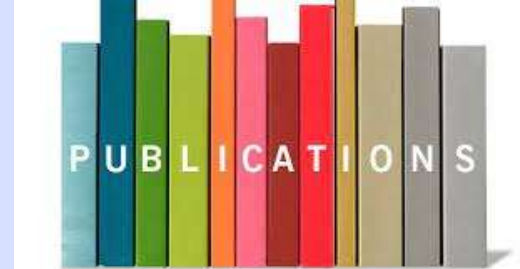
ACADEMIC EXCELLENCIA

"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

*Jaidi Preethi from IV YEAR bearing Roll Number 21K91A05A0
has topped the class with an impressive CGPA of 10.65*

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FACULTY BULLETIN

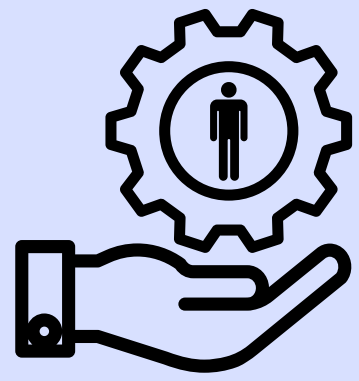
PUBLICATIONS

A Suresh Rao , presented a paper on “Machine learning approaches for diabetes prediction: comparative analysis and pre-processing insights” at the 8th international conference on Inventive systems and control (ICISC 2024) organised by JCT college of engineering and technology on 29-30 July 2024.

Kuna Naresh, published a book chapter on “Enhanced decision making and predictive analytics in IoT implementing random forest classifier on November 11 2024.

P Venkata Kishan Rao , presented a paper on “Machine learning approaches for diabetes prediction: comparative analysis and pre-processing insights” at the 8th international conference on Inventive systems and control (ICISC 2024) organised by JCT college of engineering and technology on 29-30 July 2024.

Dr. Naresh K , published a paper titled “Deep Learning And Hybrid Approaches For Script-Independent Handwritten Character Recognition: Advancing Generalization Across Diverse Languages” in Nanotechnology perceptions on 26th September 2024.



FACULTY DEVELOPMENT PROGRAM

VV Deepthi donavalli has participated in 5 day faculty development program on “ Modern data science, Machine Learning and cyber security strategies (MDSMLCS)”, organized by Department of Computer Science and Engineering (Artificial Intelligence and Data Science) & Co-sponsored by Innove Intellects LLP from July 15, 2024 to July 19, 2024 at Panipat Institute of Engineering and Technology, Samalkha, Panipat.

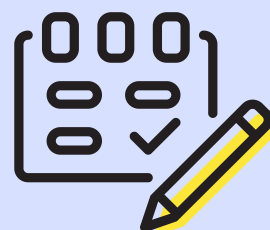
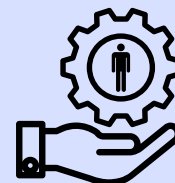
Dr. D. Anita Kumari, Participated in 10 Hours International Faculty Development Program on AI And Gen AI with Industry Application organized by MIT Academy of Engineering (MIT AOE) Autonomous - Maharashtra The National Institute of Engineering - MYSORE Narasaraopeta Engineering College Autonomous - Andhra Pradesh Matrusri Engineering College Autonomous-Telangana in Collaboration with ExcelR Edtech Pvt. Ltd. Dated: 16th July to 22nd July 2024.

Dr. Kuna Naresh, has successfully completed a Two-Week Faculty Development Program (Online Mode) on “Transforming Education: Integrating OBE and NEP 2020” from 22 July to 2 August 2024, Organized by the Department of Electronics and Communication Engineering, CVR College of Engineering.

Mr.P. Venkata Kishan Rao, participated in one week professional development program on “ NLP Unleashed: Cutting Edge methods and applications” organised from 27-8-2024 to 31-8-2024, by department of computer science and engineering (Data Science) at Vardhaman college of engineering , Shamshabad, Hyderabad.

Chaganti BN laxmi participated in FDP on Advanced data modelling and visualization with power BI”, held from 22nd july 2024 to 27th july 2024. Organised by department of information technology , VNR Vignana jyothi institute of engineering and technology, Hyderabad, INDIA.

Anantha lakshmi Gali , has successfully completed a one month online FDP on Machine Learning Organised by Skill Dzure in collaboration with AICTE on 2nd july 2024.





WORKSHOPS

Anantha lakshmi Gali, has participated in ten day workshop series on “from scratch to deployment : Hands on model building with keras and tensorflow” organised by cse sri venkateswara college of engineering from October 14 2024 to October 25th 2024.

K Naga Maha Lakshmi has participated in the " Workshop on Managing Professional Research Profiles for Faculty Members & Research Scholars " organized by the Department of Research & Publications, A2Z EduLearningHub LLP, on 2nd & 3rd September 2024.

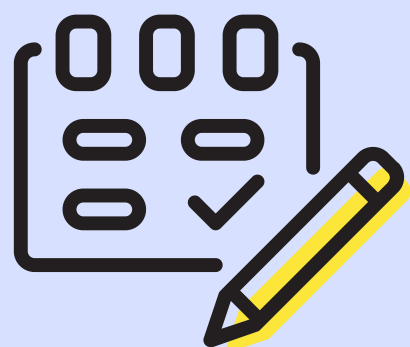
NPTEL CERTIFICATION

Dr.D. Anitha Kumari has completed a NPTEL online certification on “Introduction to machine learning” held on Jul-sep2024.

P Rajyalakshmi, has completed a NPTEL online certification on “Distributed Systems” held on july-Sep 2024.

Anantha Lakshmi Gali, has completed a NPTEL online certification on “Introduction to machine learning” held on Jul-sep2024.

P Rajyalakshmi, has completed a NPTEL online certification on “Python for data science.” Held on july-Aug 2024.





Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
DR D ANITHA KUMARI
for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **60** %

Online Assignments	24.79/25	Proctored Exam	35.19/75
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Total number of candidates certified in this course: 6812

Jul-Sep 2024
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24CS815436803075 To verify the certificate No. of credits recommended: 2 or 3

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
PANNANGI RAJYALAKSHMI
for successfully completing the course

Distributed Systems

with a consolidated score of **69** %

Online Assignments	25/25	Proctored Exam	44.25/75
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Total number of candidates certified in this course: 1466

Jul-Sep 2024
(8 week course)

Prof. S. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL24CS775336802235 To verify the certificate No. of credits recommended: 2 or 3

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
ANANTHA LAKSHMI GALI
for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **88** %

Online Assignments	25/25	Proctored Exam	62.76/75
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Total number of candidates certified in this course: 6812

Jul-Sep 2024
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24CS815436803057 To verify the certificate No. of credits recommended: 2 or 3

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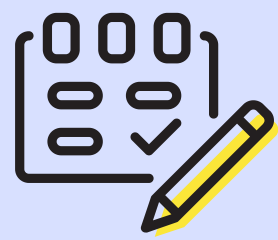
STUDENT BULLETIN

We are excited to announce the establishment of the IEEE Student Branch at TKRCET! This branch is a gateway for students to connect with the global IEEE community, gain access to cutting-edge technological resources, and participate in transformative professional development opportunities. Through workshops, technical projects, competitions, and networking events, the IEEE Student Branch empowers students to enhance their skills, collaborate on innovative ideas, and contribute to advancements in technology. Join us to explore, innovate, and excel with IEEE as we pave the way for a brighter future in science and engineering!

The event was inaugurated on November 11, 2024, at the TKRCET Auditorium, with Mrs. K. Naga Maha Lakshmi from the CSE Department serving as the overall coordinator.

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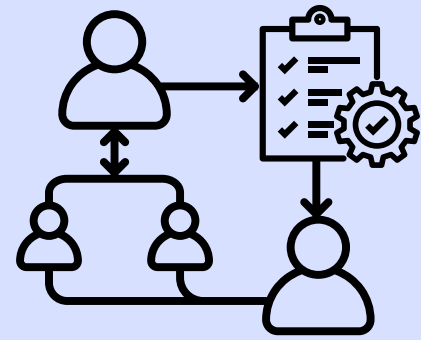




SOFT SKILLS TRAINING FOR 1ST YEAR STUDENTS

The IEEE Student Branch, in collaboration with TKR College of Engineering and Technology, successfully organized a two-day Soft Skills Training Program on December 23rd and 24th. Led by Professor M.L. Sai Kumar, the program aimed to enhance students' life skills, focusing on communication, time management, and discipline. The first day featured practical exercises to improve communication skills, fostering confidence and clarity. On the second day, impactful sessions highlighted effective time management strategies and the importance of discipline for consistent success. With engaging activities, practical insights, and motivational guidance, the program left a profound impact on students, equipping them with valuable personal and professional skills. The initiative was highly appreciated, with participants expressing gratitude for the enriching experience.





THE CODE HELIX CODING CONTEST

On December 17, 2024, TKR College of Engineering and Technology, in collaboration with the IEEE Student Branch, hosted the Code Helix coding contest, focusing on C programming. Tailored exclusively for first-year students across all branches, the event provided an exciting platform to showcase and enhance programming skills. The contest consisted of two rounds: a quiz round to assess fundamental knowledge, followed by a coding challenge to test problem-solving abilities and technical expertise. Additionally, a special session, "The Art of Engineering - An Idea Pitching Contest," encouraged students to present innovative ideas, fostering creativity and engineering aptitude. With enthusiastic participation from 110 students, the event successfully promoted technical proficiency and innovation among aspiring engineers.

