



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

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTUH)
Accredited by NBA & NAAC with 'A+' Grade



ELECTRICAL AND ELECTRONICS ENGINEERING

NEWS LETTER

Frequency: 6-months

EDITION -2

January-June 2024



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1. PREFACE

It gives us immense pleasure to present the latest edition of the Electrical and Electronics Engineering Department Newsletter. This publication serves as a vibrant platform to showcase the achievements, innovations, and activities of our students, faculty, and staff, while also highlighting recent developments in the ever-evolving world of Electrical and Electronics Engineering.

In this fast-paced technological era, the role of Electrical and Electronics engineers has become more critical than ever. From advancements in power systems and embedded technology to breakthroughs in automation and renewable energy, our department continues to stay at the forefront of academic excellence and research innovation.

This newsletter is a reflection of our collective efforts — featuring technical articles, project highlights, research contributions, industrial visits, workshops, guest lectures, and student accomplishments. It is a celebration of curiosity, creativity, and collaboration within our department.

We extend our heartfelt gratitude to the editorial team, contributors, and all those who supported the making of this issue. Their dedication and hard work have made this publication possible.

We hope this newsletter not only informs but also inspires readers to engage more deeply with the exciting field of Electrical and Electronics Engineering. May it serve as a testament to our department's commitment to learning, growth, and innovation.

Happy Reading!

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 Electrical and Electronics 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 in to 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 Electrical and Electronics 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 arm or. 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 meet 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. Raju
(Associate Professor)

Mr. P. Veeraraghava Reddy
(Assistant Professor)

STUDENT COORDINATORS

Vivek Nani

5. ABOUT THE DEPARTMENT



Dr. K. RAJU
HEAD OF DEPARTMENT-EEE

"Welcome to the vibrant hub of technological evolution at TKR College of Engineering and Technology! Established in 2002, The Department of Electrical Engineering, established in 2002, initially offered a B. Tech program in Electrical & Electronics Engineering. To diversify and provide industry-oriented training at the postgraduate level, the department introduced M. Tech courses in Power Electronics in 2010. Currently, Research efforts are focused on various areas within Electrical Engineering, such as Power Systems, Power Electronics and Drives, Power Converters, High Voltage Engineering, Control Systems, Artificial Intelligence Techniques, Renewable Energy Resources, Electric Vehicles, and software tools like ETAP, MATLAB, Ansys, and Python.

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

The following students have a topper an EEE Dept.

S.No	Year and Sem.	Roll No	Name of the student	cgpa	%
1	4-2	21K95A0230	KOMMETA VENA	8.68	84.89

7. NEWS AND ACHEIVEMENTS

FACULATY DEVELOPMENT PROGRAMMMES

1. Mr P. Veeraraghava Reddy Asst. Professor was attended FDP on One Week National level Online FDP On Aimimng Towards 3ds in Electrical Engineering on 11-03-2024 to 15-03-2024.

2. Mr P. Veeraraghava Reddy Asst. Professor was attended 5-Day National level FDP On Exploring Technology Strategies and Research Scope in Renewble sector on 02-01-2024 to 06-01-2024

3. Dr. K. Raju Asso. Professor was attended Two day National workshop on Real Time simulation of Electrical system on 27-02-2024 to 28-02-2024. at jntuh, Hyderabad.

4. Dr. Md. Qutubuddin Asst. Professor was attended Two day National workshop on Real Time simulation of Electrical system on 27-02-2024 to 28-02-2024 at jntuh, Hyderabad

5. Mr M. Deva Darshanam Asst. Professor was attended Two day National workshop on Real Time simulation of Electrical system on 27-02-2024 to 28-02-2024 at jntuh, hyderabad

6. Dr. K. PrasadaRaoAsst. Professor was attendedOne week online fdp on Artificial Intelligence application to electric vehicles04-03-2024 to 09-03-2024 at VRSEC, Vijayawada.

7. Dr. K. PrasadaRao Asst. Professor was attended5-days online fdp on ai insights: Predective power of ML,DL & NLP Organized by the department of AI&ML 14-05-2024 TO 18-05-2024 at sphoorthy, Hyderabad

8. Dr. S. Narshimha Assist Professor was attended Two day National workshop on Real Time simulation of Electrical system on 27-02-2024 to 28-02-2024 at jntuh, Hyderabad.

9. I Dr. K Prasad Rao Recently received for my participation in the NPTEL titled Advanced computer network, which took place on jan-apr 2024. I receiving this certificate have been an enriching experience.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
KOTA PRASADA RAO
for successfully completing the course

Advanced Computer Networks

with a consolidated score of **50** %

Online Assignments	19.72/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **761**


Prof. Amit Prashant
Dean, Research and Development
IIT Gandhinagar


Dr. Devendra Deshmukh,
Dean of Academic Affairs (DOAA),
Indian Institute of Technology Indore


Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



IIT Indore



IIT Gandhinagar

Jan - Apr 2024
(12 week course)



Roll No: NPTEL24CS11S357400163

To validate the certificate



No. of credits recommended: 3 or 4

I Dr. K Prasad Rao Recently received for my participation in the NPTEL titled computer network and Internet protocol, which took place on jan-apr 2024. I receiving this certificate have been an enriching experience.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

KOTA PRASADA RAO

for successfully completing the course

Computer Networks and Internet Protocol

with a consolidated score of **61** %

Online Assignments	25/25	Proctored Exam	35.94/75
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Total number of candidates certified in this course: **9310**

Jan-Apr 2024

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS19S457401685

To verify the certificate



No. of credits recommended: 3 or 4

1. Mr. Ch. Rakesh was attended National Level Techno Cultural fest will be held in the Department of Electrical and Electronics Engineering, **Anurag University**, Venkatapur, Ghatkesar Rd, Hyderabad, Telangana India, during **February 23-24, 2024**. For Participation secured second position in the **Quizzard** event.



1. Ms. J. Poojitha was attend a National Level Techno cultural –sports test on E-QUIZ as part of of UDHABHAV24 will held on dept EEE VidyaJyothi Institute of Technology, Aziznagar Gate, Chilkur Balaji Road, Himayat Sagar Rd, Hyderabad, Telangana 500075. During 1 and 2 MARCH 2024.



1. Ms. A. Nagasri Dept. EEE we have successfully completed internship in Hybrid Electrical Vehicles from 05-04-2024 to 05-05-2024.
2. Mr. A. Chandravamshi Dept. EEE we have successfully completed internship in Artificial Intelligence from 05-04-2024 to 05-05-2024.



STUDENT BULLETIN

2. The following B.Tech student was **Participation** various colleges in **VOLLEYBALL** .

Reg. No	Name of the Event	Name of the event	Place	Date	Result
21K91A0211	KG REDDY COLLEGE SPORT MEET	VOLLEYBALL	HYDERABAD	06-01-2024	PARTICIPATED
21K91A0222	KG REDDY COLLEGE SPORT MEET	VOLLEYBALL	HYDERABAD	06-01-2024	PARTICIPATED

The following students was published various journal

S.No	Roll NO	Name of the student	Paper Title	Journal Name
1		P. Sairam	Reliability Assemenet of Dirstubution system with ann using Python	STD
2		D. Goutham	PV Statcom a new smart inverter voltage Control in dirstubution system	JES
3		S. Kavyasri	Power flow regulation of electrical vehicles to PV Based micro grid using fuzzy controller.	JES

CERTIFICATE OF PUBLICATION

This is to certify that the paper entitled
"Power flow regulation for Integration of Electric Vehicles
to PV based micro grid using fuzzy controller"

Authored by
S. KAVYA SRI

From
TKR College of Engineering & Technology (Autonomous)

Has been published in

JES JOURNAL, VOLUME 15, ISSUE 04, APRIL - 2024



Dr. D.K. Chelma
Editors-in-Chief
Dr. D.Karthikaran Umber
JES PUBLICATION



CERTIFICATE OF PUBLICATION

This is to certify that the paper entitled
"PV-STATCOM: A New Smart Inverter for Voltage
Control in Distribution Systems"

Authored by
D.Goutham

From
Tkr College of Engineering & Technology (Autonomous), India

Has been published in

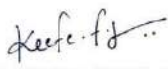
JES JOURNAL, VOLUME 15, ISSUE 04, APRIL - 2024



Dr. D.K. Chelma
Editors-in-Chief
Dr. D.Karthikaran Umber
JES PUBLICATION






FRANCIS J. KEEFE, USA
EDITOR IN CHIEF
STD JOURNAL

Science, Technology and Development Journal

ISSN NO: 0950-0707, Impact Factor : 6.1
www.journalstd.com, Mail : editorstdjournal@gmail.com

CERTIFICATE ID : STD/J-3083

CERTIFICATE OF PUBLICATION

This is to certify that the paper entitled

**“RELIABILITY ASSESSMENT OF DISTRIBUTION SYSTEM
WITH ANN USING PYTHON”**

Authored by

P. Sairam

From

TKR College of Engineering & Technology (Autonomous), Hyderabad, India.

Has been published in

STD JOURNAL, VOLUME XIII, ISSUE IV, APRIL - 2024