Faculty Editor

Peeyush Garg

Assistant Professor, Dept of Electrical Engineering, Manipal University Jaipur

peeyush.garg@jaipur.manipal.edu

Students Editors

Ms. Ayushi Mittal, V Sem, B.Tech. (Electrical & Computer Engineering)
ayushi.229209033@muj.manipal.edu
Mr. Sanskar Bansal, V Sem, B.Tech. (Electrical & Computer Engineering)
sanskar.229209036@muj.manipal.edu

About Newsletter

The third issue of SPARK proudly highlights the remarkable achievements of our Electrical Engineering students in year-2024. This edition showcases success stories, including accolades in competitions, impactful training courses, and prestigious placements. It also features research breakthroughs with papers published in leading journals, emphasizing the department's commitment to innovation. From academic triumphs to inspiring alumni journeys, the newsletter captures the essence of excellence and perseverance. SPARK continues to serve as a platform to celebrate talent and share accomplishments within the department. Dive into this edition and explore the milestones that define our vibrant and dynamic EE community!

Peeyush Garg, Faculty Editor- SPARK

Ayushi Mittal, Student Editor- SPARK

Sanskar Bansal, Student Editor- SPARK

Skill Enhancements

Participation in Faculty Development Programme (FDP)

Faculty Name	Organizing institution	Name of Event
Dr. Ritesh Singh	NITTR Chandigarh	AICTE Recognized FDP on "Curriculum Development aligned with NEP 2020"
Dr. Himanshu Priyadarshi	NITTR Chandigarh	AICTE Recognized FDP on "IoT Enabled Embedded Systems"
Dr. Himanshu Priyadarshi	Dept. of Business Administration, MUJ	FDP on "Fostering Creativity in Research across Disciplines and Career"

Faculty Accomplishments

Ph.D. Awarded:

- Many congratulate to Dr. Himanshu Priyadarshi, Assistant Professor, for completion of Ph.D. from Manipal University Jaipur, Jaipur, India.

Research Outcomes

Journal Articles Published

- **Sweta Singh (Ph.D. Scholar), Neeraj Kanwar,** and Divya Zindani published a research paper titled as "3, 4-Quasirung Fuzzy Based Prospect Theory Approach for Identification of Suitable Microgrid Scenario" in scopus indexed journal *Journal of The Institution of Engineers (India): Series B* (2024): 1-11. **(SCOPUS-Q2)**

- **Neeraj Kanwar**, **Harshita Khandle**, and Vinay Kumar Jadoun published a research paper titled as "Performance Analysis of Reactive Power Circulation Control on Extra High Voltage Transmission System Parameters" in *IEEE Access* (2024). (**SCIE-Q2**)

- **Peeyush Garg** published a research paper titled as "Deformation and failure analysis of heterogeneous slope using nonlinear spatial probabilistic finite element method" in scopus indexed journal in AIMS Mathematics, 2024, 9(10): 26339-26370 (**SCIE-Q1**).

Conference paper presentations

- **Raj Kumar Soni (Ph.D. Scholar),** Manish Kumar Thukral, and Neeraj Kanwar published a research paper titled as "A comparative analysis of some recently proposed one-dimensional chaotic maps for IoT device data encryption." in confernece AIP Conference Proceedings. (Vol. 3122. No. 1. AIP Publishing, 2024)

- Sunil Kumar Goyal, **Gaurav Gangil (Ph.D. Scholar),** and Amit Saraswat published a conferene paper "A Review on Uncertainty Modelling Approaches for Stochastic Optimization in Power System." 2024 4th International Conference on Innovative Practices in Technology and Management (ICIPTM). IEEE, 2024.

Students Accomplishments

Students' Extra-circular Participation:

- **Ms. Arjavi Arya (229209006),** student of V Semester, B.Tech. (Electrical and Computer Engineering), proudly represented Manipal University Jaipur as part of the university's football team in the **BITS Open Sports Meet (BOSM-2024),** held at BITS PILANI, Rajasthan.

Students' Active Contributions:

- **Mr. Akash Mukherjee,** V Semester B.Tech. (Electrical and Computer Engineering) student, showcased organizational abilities as the Human Resource Director of **IEEE RAS** at MUJ. He successfully led the organization of Startup Weekend Jaipur by Google for Startups, an event that witnessed remarkable success with participation exceeding 150 attendees.

Students' Industry training:

- **Mr. Raghav Bhatia**, student of V Semester, B.Tech. (Electrical and Computer Engineering), during his summer vacation (July-September 2024), he visited Khanna Paper Ltd. and Pakka Ltd. to observe the Elixa AI system by Haber. Powered by Raspberry Pi, Elixa integrates sensors to monitor water quality and optimize paper production processes across various GSM types.

Alumni Accomplishments

Many congratulations our Alumni **Ms. Harshita Khandle** (*Alumni, B.Tech (Electrical and Electronics Engineering)-Batch 2017-21)),* for getting admission in Master progamme in "**Power Electronics, Electrical Machines and Drives**" at **IIT Delhi**.

Industrial Training courses

Congratulations students for completing industrial training courses by MATHWORKS, Inc- Maker of MATLAB and Simulink

Registration No	Student Name	Semester	MOOC title
229205009	RUDRA SANKAR BISHNU	V Sem, B.Tech.-EEE	**Machine Learning onramp**
229205009	RUDRA SANKAR BISHNU	V Sem, B.Tech.-EEE	**Image Processing onramp**
229205007	MANISHKA VYAS	V Sem, B.Tech.-EEE	**MATLAB onramp**
229205007	MANISHKA VYAS	V Sem, B.Tech.-EEE	**Image Processing onramp**
229205008	AYUSH SAXENA	V Sem, B.Tech.-EEE	**MATLAB onramp**
229205008	AYUSH SAXENA	V Sem, B.Tech.-EEE	**Simulink onramp**

Internal Smart India Hackathon- at MUJ

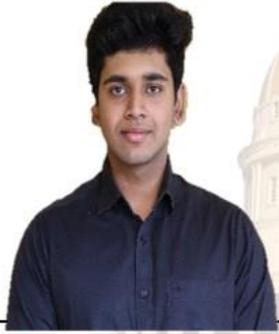| Name of the student	Registration Number	Team Name	Problem statement
Ayushi Mittal	229209033	Byte Masters	Al-based automated defective exhibit identification system placed in a gallery.
Sanskar Bansal	229209036	Byte Masters	Al-based automated defective exhibit identification system placed in a gallery.
Naman Bhasin	229209022	Tic Tech Toe	Standardizing Odd School Structures to Improve Educational Policy Implementation and Resource Allocation
Saksham Agrawal	229209040	Arises	SAR Image Colorization for Comprehensive Insight using Deep Learning Model (h)
Mimansha Bhandari	229209049	Arises	SAR Image Colorization for Comprehensive Insight using Deep Learning Model (h)
Harshita Dua	229209046	Arises	SAR Image Colorization for Comprehensive Insight using Deep Learning Model (h)
Kushal Kedawat	229209032	Arises	SAR Image Colorization for Comprehensive Insight using Deep Learning Model (h)

Flipkart GRID – 6.0 (Software Development)

Name of the student	Registration Number	Team Name
Sanskar Bansal	229209036	GLITCH
Ayushi Mittal	229209036	tanishkamagar6604

MANIPAL UNIVERSITY JAIPUR
(University under Section 2(f) of the UGC Act)

Success Story

NAAC A+ GRADE WITH 3.28 SCORE

Congratulations

for placement in

ARM Embedded Technologies Pvt Ltd, India

Mr. Maitreya Milind Sawant

B. Tech, Electrical & Electronics Engg.
Batch: (2020-2024)

MANIPAL UNIVERSITY JAIPUR
(University under Section 2(f) of the UGC Act)

Congratulations

NAAC A+ GRADE WITH 3.28 SCORE

Success Story

Placed in

Tata Consultancy Services, India
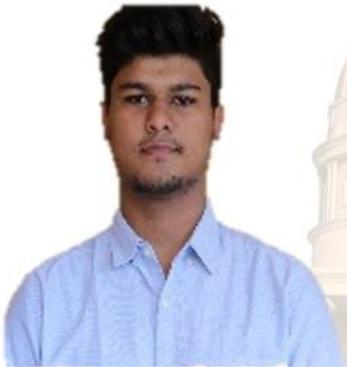
Mr. Anuj Upadhyay

B. Tech, Electrical & Electronics Engg.
Batch: (2020-2024)

MANIPAL UNIVERSITY JAIPUR
(University under Section 2(f) of the UGC Act)

Success Story

NAAC A+ GRADE WITH 3.28 SCORE

Congratulations

for placement in

Omegga Power Industry Private Ltd., New Delhi

Mr. Shivam Aggarwal

B. Tech, Electrical & Electronics Engg.
Batch: (2020-2024)

• Students Testimonial

Mr. Sarthak Nadanwar
B.Tech. (EEE)- Batch 2020-24

MANIPAL UNIVERSITY JAIPUR
(University under Section 2(f) of the UGC Act)

NAAC A+ GRADE WITH 3.28 SCORE

Testimonial

Sarthak Nandanwar
M. S. Technische Universitat
B. Tech, Electrical & Electronics Engg.
Batch: 2020-2024

"The comprehensive curriculum provided a strong theoretical foundation. The well-equipped labs and hands-on projects were crucial in developing my core skills. The extremely supportive faculty was responsible for creating a resourceful and innovative environment."

Website:

https://jaipur.manipal.edu/foe/department-of-electrical-engineering.php

Facebook:

https://www.facebook.com/eemuj/