MANIPAL UNIVERSITY
JAIPUR

SPARK

• Volume 3 Issue 2
• (April–June 2026)

Newsletter of

Department of Electrical Engineering

Manipal University Jaipur

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Hriday Jani

IV Semester, B.Tech (Electrical & Computer Engineering)

Ranvir Singh Khosla

IV Semester, B.Tech (Electrical & Computer Engineering)

About Newsletter

Department of Electrical Engineering, Manipal University Jaipur, witnessed a productive and eventful quarter from April to June 2026. This edition of the departmental newsletter captures the academic achievements, professional engagements, and diverse activities that shaped the quarter. Also, faculty members made notable contributions through publications in reputed journals and conferences, active participation in and organization of technical workshops on emerging domains, reflecting their continued commitment to academic excellence and professional growth.

Our students also demonstrated enthusiasm and excellence, bringing laurels to the department through their achievements in various co-curricular and extracurricular activities. This edition further showcases the Problem-Based Learning (PBL) and minor projects completed during the quarter, highlighting students' creativity, technical competencies, and experiential learning. We hope this newsletter offers a glimpse into the department's continued pursuit of excellence in teaching, research, innovation, and holistic student development.

Dr Peeyush Garg, Faculty Editor, SPARK

Hriday Jani, Ranvir Singh Khosla, Student Editors, SPARK

FROM THE HOD's DESK



It gives me great pleasure to introduce the latest edition of our department newsletter, **SPARK**. Year after year, SPARK stands as a testament to the vibrant energy, innovation, and academic achievements of our students and faculty, continuously strengthening the bond within our department community.

This edition highlights our ongoing pursuit of research excellence, technological innovation, and meaningful industry-academic collaborations. As we move forward, I encourage our students and faculty to remain curious, engage passionately, and contribute actively toward making SPARK a beacon of knowledge and creative thought.

I express my heartfelt gratitude to the editorial board for their meticulous effort and unwavering commitment in bringing this issue to life. I wish this edition complete success!

Dr. Neeraj Kanwar

HOD, Department of Electrical Engineering

Manipal University Jaipur.

Skill Enhancements

Participation in One Week Workshop

Faculty Name	Name of Event
Dr. Neeraj Kanwar	**Workshop titled "Emerging Technologies in Electrical Engineering: Power, Reliability, and Intelligence"** **Organised by EE Department, MUJ in Collaboration with MUJ-TEC** **15th June 2026 to 19th June 2026**
Dr. Peeyush Garg	
Dr. Bishwajit Dey	
Dr. Gaurav Kansal	
Dr. Pulakraj Aryan	



Research Outcomes

Journal Articles Published:

- **Nidhi Choudhary (Student Author),** Amit Soni published a research paper titled "Unveiling the Functional Properties of Rb-Based Halide Double Perovskites via First Principle Calculations" in the Journal of Molecular Graphics and Modelling in April 2026. (Scopus – Q1)
- **Anu Prakash (Student Author),** Amit Saraswat published a research paper titled "Resilient Microgrid Energy Management Under Weather-Dependent Uncertainties: A Stochastic Multiobjective Optimization Framework" in Results in Engineering in May 2026. (Scopus – Q1)
- **Divya Mathur (Student Author),** Neeraj Kanwar and Sunil Kumar Goyal published a research paper titled "Intelligent Energy Management of Coordinated Community Microgrid Systems Using Metaheuristic Optimization and Deep Learning" in Scientific Reports in April 2026. (Scopus – Q1)
- Divya Rishi Shrivastava published a review article titled "Advancing Microalgae Biomass Cultivation for an Integrated Sustainable Wastewater Treatment and Resource Recovery" in iScience in June 2026. (Scopus – Q1)
- Amit Soni published a research paper titled "Structural Stability, Electronic Structure and Optical Properties of Alkali-Metal-Based Yttrium Selenides $AYSe_2$: A First-Principles Study" in Solid State Communications in April 2026. (Scopus – Q2)
- Neeraj Kanwar published a research paper titled "Nonintrusive, Training-Free Wavelet-Based Feature Extraction for Residential Electric Vehicle Charging Detection" in IEEE Access in April 2026. (Scopus – Q1)
- Bishwajit Dey published a research paper titled "A Hybrid AI Framework for Identification of Power Quality Disturbances in Electrical Network" in Scientific Reports in April 2026. (Scopus – Q1)
- Pulakraj Aryan published a research paper titled "Performance and Robustness Analysis of Optimal T2FI-DPD Controller for Frequency Regulation in a Triple-Area Deregulated Power System" in IEEE Access in May 2026. (Scopus – Q1)
- Pulakraj Aryan published a research paper titled "Enhancing a Resilient Frequency Regulation Demand Response-Based Hybrid Power System Against Cyber Threats" in IEEE Open Journal of Industry Applications in June 2026. (Scopus – Q2)
- Pulakraj Aryan published a research paper titled "Analyzing the Impact of Power Loss Reduction in Radial Distribution Network Using Diverse Distributed Generators by Utilizing ZIP Load Models" in Scientific Reports in June 2026. (Scopus – Q1)

Conference Papers Published:

- Samarendra Singh, Bishwajit Dey, and Neeraj Kanwar published a research paper titled as "Optimal Charge Scheduling for Economic Operation of Electric Vehicle Charging Station" in the *2025 IEEE 4th International Conference on Smart Technologies for Power, Energy and Control (STPEC)*, IEEE, in May 2026. (Scopus)

Workshop Organised

Five-Day Workshop on Emerging Technologies in Electrical Engineering

The Department of Electrical Engineering at Manipal University Jaipur organised a five-day online workshop **titled "Emerging Technologies in Electrical Engineering: Power, Reliability, and Intelligence"** from 15th to 19th June 2026. It was held in collaboration with the Manipal University Jaipur Teacher Empowerment Centre (MUJ-TEC), with sessions running from 10:30 AM to 1:00 PM each day. The workshop was open to faculty members, students, research scholars, and working professionals, and there was no registration fee. The theme tied together three areas that matter to the future of the field: power systems, reliability, and intelligent technologies. The workshop also aligned with UN Sustainable Development Goals 9 (Industry, Innovation and Infrastructure) and 4 (Quality Education).

Four resource persons from leading institutions led the sessions:

- **Prof. Rajive Tiwari**, Professor, Electrical Engineering, MNIT Jaipur
- **Dr. Hemant Kumar Meena**, Associate Professor, Electrical Engineering, MNIT Jaipur
- **Dr. Abhineet Prakash**, Assistant Professor, School of Electrical and Computer Sciences, IIT Bhubaneswar
- **Dr. Suman Murugesan**, Assistant Professor, Department of EEE, NIT Tiruchirappalli

The workshop was convened by **Dr. Gaurav Kansal** (Assistant Professor, Senior Scale) and **Dr. Pulakraj Aryan** (Assistant Professor), Department of Electrical Engineering, MUJ.



Expert Talk Organised



Dean's Excellence Award

The Department of Electrical Engineering, Manipal University Jaipur, proudly congratulates our outstanding students on being honored with the Dean's Excellence Award for their exceptional academic performance.

Electrical Engineering Department, Manipal University Jaipur

🎓 B.Tech. Electrical & Electronics Engineering (III Sem.)

- C. Clement Cherian
- S. Shiva

🎓 B.Tech. Electrical & Computer Engineering (III Sem.)

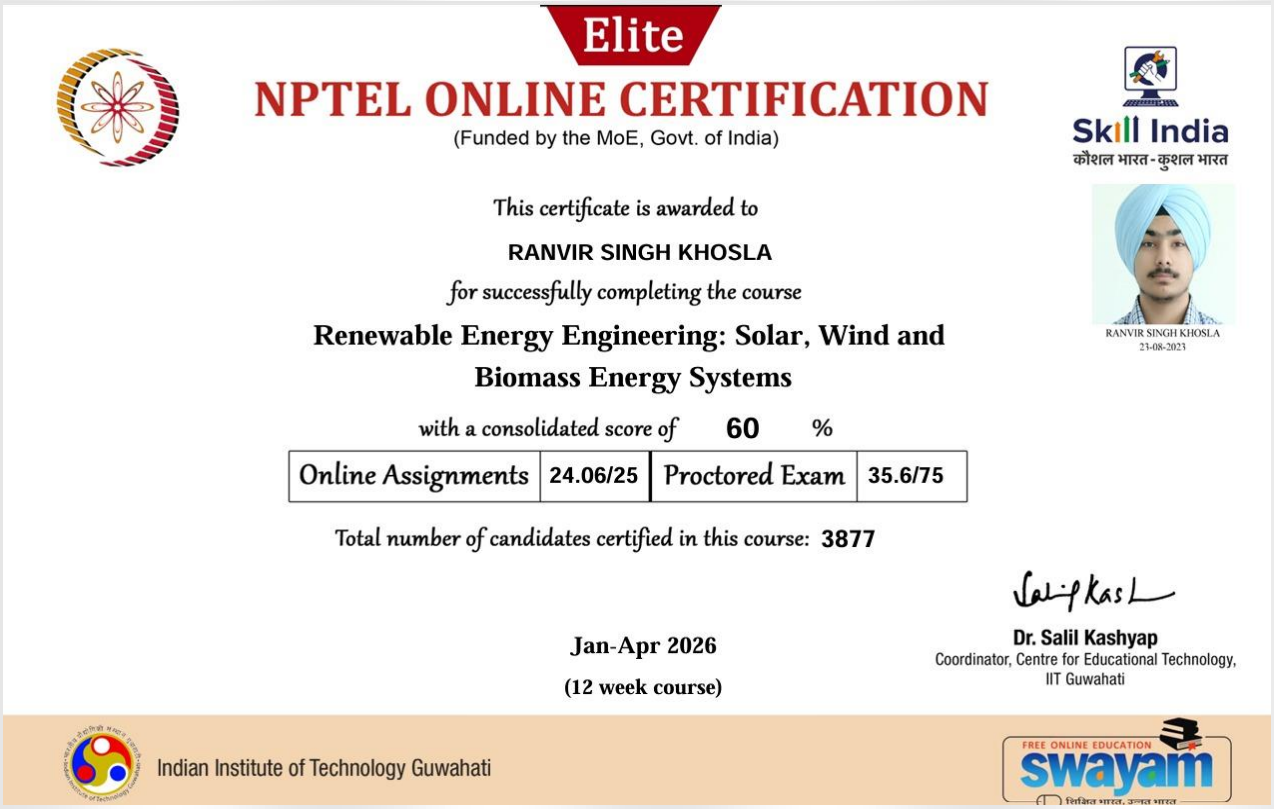
- Hriday Jani
- Ansh Kumar Singh

🎓 B.Tech. Electrical & Computer Engineering (V Sem.)

- Anvi Singh Chhetri
- Himanshu Patel
- Raja Dhakad\



NPTEL Achievements



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

RANVIR SINGH KHOSLA

for successfully completing the course

Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems

with a consolidated score of 60 %

Online Assignments	24.06/25	Proctored Exam	35.6/75

Total number of candidates certified in this course: 3877

RANVIR SINGH KHOSLA
23-08-2023

Jan-Apr 2026

(12 week course)

Dr. Salil Kashyap
Coordinator, Centre for Educational Technology,
IIT Guwahati

Indian Institute of Technology Guwahati

FREE ONLINE EDUCATION swayam

Student Achievement: NPTEL Certification Success

The Department of Electrical Engineering extends its heartfelt congratulations to Ranvir Singh Khosla for securing an Elite NPTEL Online Certification in the 12-week course *Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems*, offered by IIT Guwahati. Achieving this certification highlights dedication to advancing knowledge in clean energy solutions and sustainable engineering. The department takes pride in his continuous pursuit of academic excellence and technical upskilling!

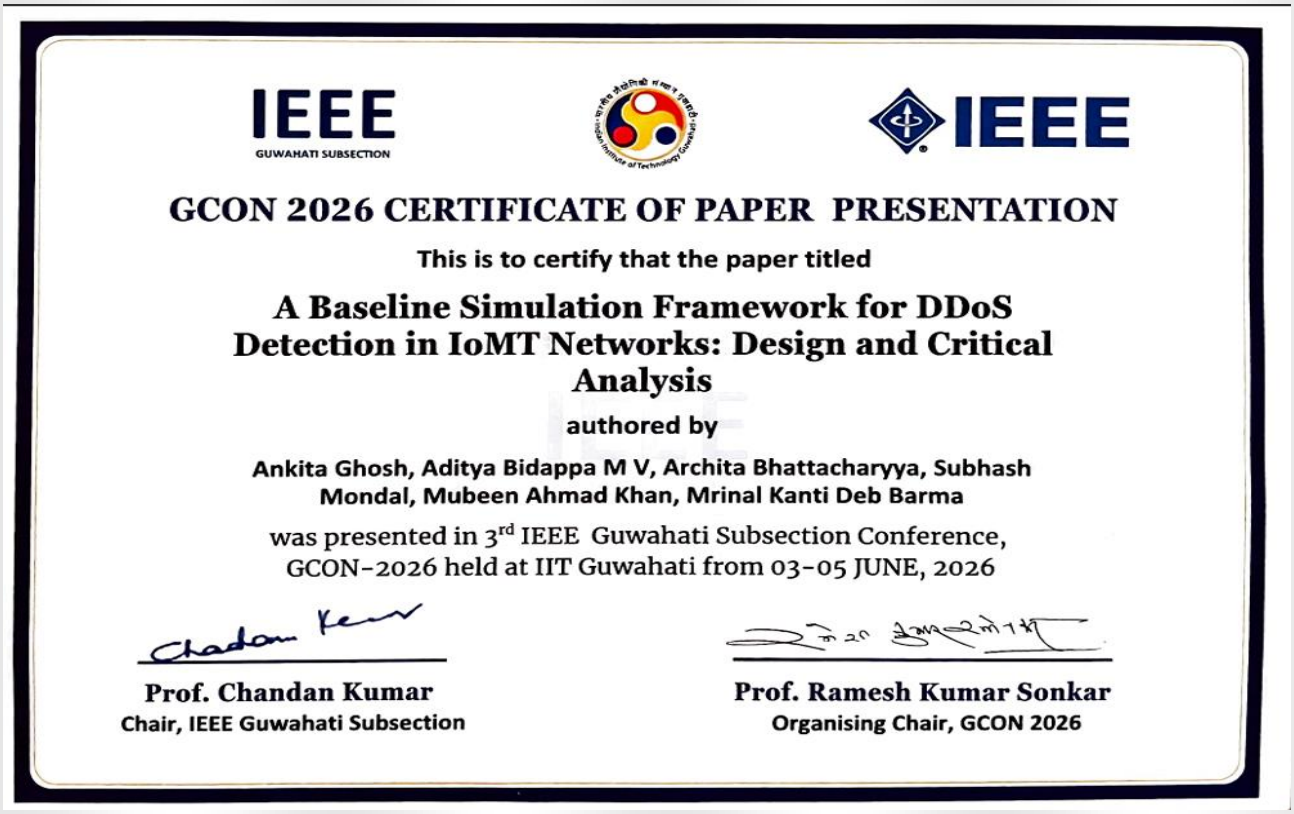
Placement Statistics

B.Tech (ELC), Batch 2026: Company-wise Placements

Company	Reg. No.	Student Name	Branch
Amber Group	229209006	ARJAVI ARYA	B.Tech (ELC)
	229209009	AKASH MUKHERJEE	B.Tech (ELC)
	229209022	NAMAN BHASIN	B.Tech (ELC)
	229209037	RAGHAV BHATIA	B.Tech (ELC)
Schneider Electric	229209006	ARJAVI ARYA	B.Tech (ELC)
	229209049	MIMANSHA BHANDARI	B.Tech (ELC)
Infosys (ITES)	229209016	ANSH JAST	B.Tech (ELC)
	229209017	JASKARAN A SINGH RUSTAM	B.Tech (ELC)
	229209022	NAMAN BHASIN	B.Tech (ELC)
	229209030	VIKAS CHOUDHARY	B.Tech (ELC)
	229209032	KHUSHAL KEDAWAT	B.Tech (ELC)
	229209036	SANSKAR BANSAL	B.Tech (ELC)
	229209040	SAKSHAM AGARWAL	B.Tech (ELC)
	229209046	HARSHITA DUA	B.Tech (ELC)
SecureMeters	229209017	JASKARAN A SINGH RUSTAM	B.Tech (ELC)
	229209030	VIKAS CHOUDHARY	B.Tech (ELC)

	229209045	ANURAG SHARMA	B.Tech (ELC)
Greenlam	229209021	ABHINAV KOTHARI	B.Tech (ELC)
LTIMindtree	229209022	NAMAN BHASIN	B.Tech (ELC)
	229209032	KHUSHAL KEDAWAT	B.Tech (ELC)
	229209040	SAKSHAM AGARWAL	B.Tech (ELC)
PwC	229209033	AYUSHI MITTAL	B.Tech (ELC)
Accenture (ITES)	229209034	NISHIT P. DONGRE	B.Tech (ELC)
Accenture	229209040	SAKSHAM AGARWAL	B.Tech (ELC)
NeenOpal	229209036	SANSKAR BANSAL	B.Tech (ELC)
Cisco	229209036	SANSKAR BANSAL	B.Tech (ELC)
MLHealth360	229209036	SANSKAR BANSAL	B.Tech (ELC)
Nokia	229209038	VISHESH GUPTA	B.Tech (ELC)
Deloitte USI	229209038	VISHESH GUPTA	B.Tech (ELC)
J K Cement	229209041	MOHD ATEEK KHAN	B.Tech (ELC)
ReNew	229209046	HARSHITA DUA	B.Tech (ELC)
	229209048	YASHAADITYA	B.Tech (ELC)
Newgen Software	229209048	YASHAADITYA	B.Tech (ELC)
NAVITASYS India Pvt. Ltd. (A TDK Group Company)	229209049	MIMANSHA BHANDARI	B.Tech (ELC)

Student Achievement



IEEE GUWAHATI SUBSECTION

IEEE

GCON 2026 CERTIFICATE OF PAPER PRESENTATION

This is to certify that the paper titled

A Baseline Simulation Framework for DDoS Detection in IoMT Networks: Design and Critical Analysis

authored by

Ankita Ghosh, Aditya Bidappa M V, Archita Bhattacharyya, Subhash Mondal, Mubeen Ahmad Khan, Mrinal Kanti Deb Barma

was presented in 3rd IEEE Guwahati Subsection Conference, GCON-2026 held at IIT Guwahati from 03-05 JUNE, 2026

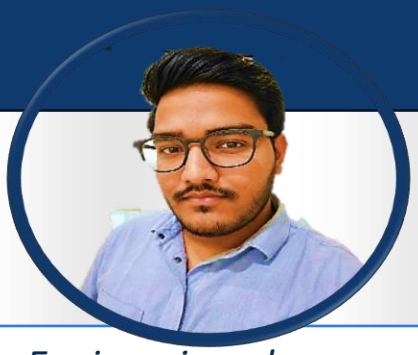
Prof. Chandan Kumar
Chair, IEEE Guwahati Subsection

Prof. Ramesh Kumar Sonkar
Organising Chair, GCON 2026

Conference Paper Presentation at IEEE GCON 2026

We are thrilled to celebrate the academic and research achievements of our B.Tech. Electrical & Electronics Engineering student, Ankita Ghosh (2028 Batch), who successfully presented a research paper at the prestigious 3rd IEEE Guwahati Subsection Conference (GCON 2026) held at IIT Guwahati from June 3rd to 5th, 2026. She presented her co-authored paper titled "A Baseline Simulation Framework for DDoS Detection in IoMT Networks: Design and Critical Analysis", contributing valuable insights to the fields of cybersecurity, healthcare oT networks, and simulation frameworks. The Department of Electrical Engineering proudly applauds her research dedication and wishes her continued success in her future academic pursuits!

Alumni Testimonial



Mr. Naman Somani

System Engineer, Tata Consultancy Services, Bengaluru

B.Tech. (EEE), Batch 2021- 2025

Reflecting on my journey, pursuing my Bachelor Engineering degree at Manipal University Jaipur from 2021 to 2025 truly laid the groundwork for my professional career. I want to extend a special note of gratitude to Electrical department.

The department's unwavering support, practical approach to complex concepts, and encouraging environment played a massive role in shaping my technical mindset. The dynamic academic environment within the department not only strengthened my core engineering fundamentals but also gave me the flexibility to build a versatile technical skill set.

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

Facebook:

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

LinkedIn:

https://www.linkedin.com/in/department-of-electrical-engineering-manipal-university-jaipur-564398271/

Instagram:

https://www.instagram.com/eeemuj/


MANIPAL UNIVERSITY
JAIPUR
Directorate of Alumni Relations
&
Manipal University Jaipur Alumni Association
in Association with
Departments
With Great Pride and Joy
Invites you to join
ALUMNI MEET-2026
"A Decade of Memories, Milestones, and Lifelong Connections"
October 24, 2026 (Saturday)
11:00 AM onwards
Manipal University Jaipur
Key Highlights
Alumni Networking & Department Reunions
Decennial Alumni Felicitation (2014 - 2016 Batches)
Cultural & Sports Activities
Alumni Success Stories & Campus Tour
Lunch & Fellowship
10 YEARS
Register Now
https://forms.gle/rMiBfidwbN2ZfEbw9
Contact Person:
Dr Sushil Kumar Jain
Director (Alumni Relations)
+91 141 3999100 (Extn:244)
+91 9828034055, 8003599914
No Registration Fees
Manipal University Jaipur Alumni Connect
MUJ Alumni Community
MUJ Alumni Connect
@DoARMUJ
mujalumni.in

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

nirf
RANKING 2023

A+
NAAC

B.TECH
Electrical & Computer Engineering

KEY HIGHLIGHTS:

- Well-equipped laboratories and modern classrooms
- Industry tie-ups for research and development
- Industry-aligned curriculum
- Upgraded labs as per latest industry needs



Admissions Open 2026

APPLY NOW

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

nirf
Rankings 2025
Overall: 98 | University: 58
Engineering: 58 | Management: 81
Law: 32 | Architecture: 21

A+ NAAC

Celebrating

15 YEARS

OF EXCELLENCE, INNOVATION & IMPACT

04TH JUNE

ESTABLISHMENT DAY

HONOURING OUR LEGACY, BUILDING THE FUTURE




MANIPAL UNIVERSITY
JAIPUR
Congratulations!
ASIA
RANKED
2027
QS WORLD UNIVERSITY RANKINGS 20 YEARS
QS ASIA UNIVERSITY RANKINGS 2027
RANK 554
554
Manipal University Jaipur
SOUTHERN ASIA RANKING
RANK 144
ASIA 2027 : SOUTHERN ASIA
144
Manipal University Jaipur
RANK IN INDIA
RANK 74
Excellence. Progress. Global Recognition.
Regional ranking trend
801+
701-750
-658
=554
2024
2025
2026
2027
Percentage of institutions surpassed in terms of rank
24.1%
57.2%
67.9%
2024
2025
2026
2027

MANIPAL UNIVERSITY
JAIPUR

competition success review

CSR Ranking for the Year 2026

Ranked

Engineering

1st
Top Engineering Colleges
Ranked by State

4th
Top 20 Engineering Colleges
in India Ranked by
Placements, USP, Social Responsibility,
Networking & Industry Interface

5th
Top Leading Engineering Colleges
Super Excellence in India

Law

1st
Law School
in Rajasthan

2nd
Top Eminent Law School
in India

Congratulations!

