

SIMRAN KUMARI

☎ [+91-9661753638](tel:+91-9661753638) ✉ 22ev3028@rgipt.ac.in 📄 [Simran Kumari](#)

EDUCATION

Rajiv Gandhi Institute of Petroleum Technology

(An Institute of National Importance along the lines of IITs)

2022 – 2026

Amethi, Uttar Pradesh, India

B. Tech in Electrical Engineering (Major : E -Vehicle) - CPI - 8.79/10

High School Khutauna

BSEB Class - 12th Percentage - 86%

2020 - 2021

Madhubani, Bihar, India

High School Khutauna

BSEB Class - 10th Percentage - 83.4%

2018 – 2019

Madhubani, Bihar, India

COURSEWORK / SKILLS

- Electrical Machines
- Power Electronics
- Static Power Convertors and Applications
- Control System
- EMFT
- Sensors, Actuators and Control of Electric Drives
- Statistical Methods and Data Analysis
- Linear Algebra and Complex Analysis
- Computer Programming
- Electrical Circuits and Measurements
- Network Analysis and Synthesis
- Digital Circuit and Systems

PROJECTS

3-Phase Inverter Using SiC MOSFET

Ongoing

- Designing a 3-phase inverter using Silicon Carbide (SiC) MOSFET.
- Generated PWM (Pulse Width Modulation) signals for precise control of switching operations.
- Simulated 1-phase, 3-phase, and 6-phase inverter systems in MATLAB/Simulink to analyze and validate performance.
- Tested a rectifier circuit on a PCB board to generate DC output for driving a DC motor.

ACHIEVEMENTS

- Currently Ranked 2nd in Electrical Engineering Branch, RGIPT
- Selected as Network Analysis and Chemistry Tutor at RGIPT, conducting weekly tutorials for undergraduates.
- Awarded with Merit Cum Means (MCM) Scholarship by RGIPT
- Runner-Up in Momentum Event in Technex 2023(Annual Technical Fest, IIT BHU)

TECHNICAL SKILLS

Languages:

Python, C, MATLAB

Technologies:

VScode, PyCharm, AutoCad

SoftSkills:

Leadership, Event Management, Public Speaking, Time Management, Professional Communication

VOLUNTEER EXPERIENCE

Science and Technical Council, RGIPT

Tinkering Lab Executive

Coordinator, Water Rocketo Revelio Event in URJOTSAV 2023, RGIPT

Organized Pinaka Event S&T, RGIPT

IEEE Student Branch, RGIPT