



## Satpal Kumar

Roll No.: 21ec3022

Bachelor of Technology

Electronics and Communication Engineering

Rajiv Gandhi Institute of Petroleum Technology

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🌐 GitHub Profile

🌐 LinkedIn Profile

## EDUCATION

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- Rajiv Gandhi Institute of Petroleum Technology** 2021-2025  
*Bachelor's in Electronics and Communication Engineering*
- DHRUVA PUBLIC SCHOOL** 2020  
*10+2, CBSE* Percentage: 87%
- SNEH INTERNATIONAL SCHOOL** 2018  
*10th, CBSE* Percentage: 91%

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** C, Python

**Simulation and Visualization Tools:** Comsol, Matlab

**Soft Skills:** Problem solving, Team building, Leadership, Ability to meet deadlines under pressure

**Coursework:** Solid State Devices, Digital Electronics, Analog Communication

**Areas of Interest:** practical, hands-on- problem solving, reading newspaper and communicating with different people, keenly interested in Internet technologies and Digital Electronics

## PERSONAL PROJECTS

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- IoT based Alcohol detection system**  
*Built a IoT based smart device for measuring alcohol levels*
  - Tools & technologies used: Arduino, IoT servers, NodeMCU
  - Measuring alcohol levels in drivers of vehicles and send appropriate alert messages depending on alcohol level. (Responsible for circuitry design and implementation)
- Line Following Robot**  
*An Infrared based Line following Autonomous robot*
  - Tools & technologies used: Arduino, IR Sensors, L293D Motor driver
  - A line following robot which can autonomously follow black and white lines and is easily customizable for any ambient light conditions.
- Hangman**  
*A word Guessing game built using Python*
  - Tools & technologies used: Python, Various Python Libraries
  - A single player word guessing game based on the popular game Hangman built using Python and its various libraries, used Python OOPs concepts as well for making the project as part of my coursework project.

## POSITIONS OF RESPONSIBILITY

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- Women Secretary in RGIPT IEEE IEEE**
- Girl's Representative of College RGIPT**
- Secretary of Mess Committee RGIPT**
- Teaching volunteer in GYANARPAN, PROJECT AMETHI RGIPT**

## ACHIEVEMENTS

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- Amongst top 3 students in school**
- Represented College in IIT Kanpur sports fest UDHGHOSH 2022 In Women Athletics**
- Won number of medals and trophies in Athletics at school level**