

LIST OF PROJECTS

Name of Student	Project Name	Problem Statement	SDG Goals
HARSHIL ARON UJJAWAL ARORA	DIYA CRUSHER	Recycling diyas that are wasted or broken after usage	SDG 9, SDG 11
RAGHAV GAUR PRATHAM DEEP	CROP & SOIL MANAGEMENT	Farmers face several challenges related to crop selection, soil management, disease identification and other factors, which can impact agriculture productivity and sustainability. To address these challenges, we need an application to help farmers for full fledged farming.	SDG 2
MAYANK CH. HIMANSHU DIXIT	REVOLUTIONIZING URBAN MOBILITY: THE SMART CAR PARKING SYSTEM	Design and implement a Smart Cart Parking System to address the increasing need for efficient management of parking spaces in urban areas. The system should utilize smart sensors, IoT technology, and data analytics to optimize parking space utilization, minimize congestion, reduce vehicle emissions, and enhance user convenience.	SDG 9
JATIN KAUSHIK KARTIK SHAUKEEN	SHORTEST PATH FINDER ROBOT		SDG 9
VAMSHI TEJA CHANDRASHEKHAR	AUTOMATIC SANITIZATION SYSTEM	Due to travelling of heavy passengers in the trains there is a possibility of getting infected with the people suffering from various disease. To address the issue, a system is to be developed for proper sanitization without manual involvement.	SDG 3
NITIN KUMAR AYUSH SHARMA GURVEER SINGH HARSHITA MAGOO	LINE FOLLOWER ROBOT	The Line Follower Robot Project aims to demonstrate the capabilities of autonomous robotics in tasks such as logistics, surveillance, and automated guided vehicles, while also serving as an educational tool for students and hobbyists interested in robotics and automation	SDG 4 SDG 9
Pratham Gera	Face Recognition Attendance System using Raspberry pi	Automate attendance, enhance security, save time, real-time monitoring, cost-effective.	SDG 9
Bhavay Sharma			
Eshaan Gupta			
Sathwik	Digital combination lock	Provide secure access, eliminate physical keys, user-friendly, customizable security codes.	SDG 9
Sai Teja			
Siddhartha			
Tanvi Gupta	finger print door lock	The objective of this project is to create a robust and user-friendly fingerprint door lock system using Arduino, implementing efficient fingerprint recognition for secure access control, and ensuring the	SDG9,SDG11,SDG16,SDG17
Mansi Bhardwaj			
Shivani Sharma			
Sneha Kumari	Smart Datesheet	It aims to automate the process of generating schedules for academic examinations based on input data provided in an Excel file, then processing the input data to generate a schedule that assigns dates to each subject's examination, ensuring that the dates fall within the specified start and end date range and follow any gap day requirements.	SDG 4, SDG9, SDG17
Dogga Pavan Sekhar			
Narapureddy Durga Prasad Reddy			
Gul Mittal	Smart Cart	Designing a smart cart for individuals that navigates and independently scans product barcodes to enhance the	SDG 9
Mohan Yaduvanshi			
Sanchit Panker			
Krish Malik	Automated Home Light System	The primary objective of this project is to develop an intelligent and energy-efficient lighting system tailored for library shelves. By integrating motion-sensing technology, our goal is to create a device that automatically activates lighting when a person is in proximity and deactivates it when the area is	SDG7, SDG11
Manish Narwat			
Mudit Garg			
Automated Solar Tracker	Automated solar tracker	The objective of this project is to maximize the energy output of solar panels by continuously adjusting their orientation towards sun rays. By applying automated solar tracker, it contribute to the promotion of renewable energy sources and	SDG7, SDG11

ABHINAV	CAR Parking System	Optimize parking space usage, improve vehicle management, reduce congestion.	SDG 11
RONIT VIJAY			
SARTHAK AGGARWAL	Fire Alarm Circuit	Detect fires early, alert occupants, enhance safety, prevent damage.	SDG 9, SDG 11
AKSHAR			
KUNAL SHARMA	Arduino Plant Watering System	Automate irrigation, conserve water, ensure plant health, reduce effort.	SDG 2, SDG 6
YASH KUMAR YADAV			
AYON DANDAPATH	Traffic Light	Regulate traffic flow, enhance road safety, reduce accidents, improve efficiency.	SDG 11
DHRUV KUMAR SINGH			
HARDIK PATHAK	Patient Health Monitoring System	Continuously track vital signs, ensure patient safety, prompt alerts.	SDG 3
BHAVNA			
SMRIDDDHI	Force Sensor Anti Theft System	Detect unauthorized access, prevent theft, enhance security, prompt alerts.	SDG 9, SDG 11
VAIDEHI SINGH PARMAR			
GARIMA SRIVASTAVA	RFID Door Lock Project	Secure access, eliminate keys, enhance convenience, control entry.	SDG 9, SDG 11
SNEHA SINGH			
ABHINAV KUMAR	Bluetooth Controlled LED (Home Appliance)	Remotely control lights, improve energy efficiency, enhance convenience.	SDG 7, SDG 9
GARIMA SINGH			
VARUN KUMAR	Fingerprint Door Lock	Secure access, eliminate keys, personalize entry, improve security.	SDG 9
HARSH BHARDWAJ			
KANIKA SHARMA	Propeller Display of Message by Virtual LEDs	Display messages creatively, attract attention, enhance communication.	SDG 9
TAMANNA			
KATHERINE PARSHAD	Digital Clock with GPS Synchronisation	Display accurate time, synchronize globally, ensure precision.	SDG 9
RAHUL SHARMA			
GAUTAM JANA			
SHASHANK SINGH			
JAI PRATAP SINGH			
RACHIT PHAGNA			
KUSHAGRA SINGH			
MOHIT			
SUMIT LAKHANI			
SWAYAM ARORA			
ANUSHKA CHAURASIA			

PAYAL RAWAT	Touch Sensor Using 555 Timer IC	Detect touch input, enhance interactivity, improve user experience.	SDG 9
DEV RAWAT			
SALONI RAWAT			
VARUN	Smart Digital SchoolBell With Timetable Display	Automate bell ringing, display schedules, improve punctuality.	SDG 4 ,SDG 9
PALAK CHAUDHARY			
BHARTI			
PAWAN JOSHI	Laser Security Alarm System	Detect intrusions, prevent unauthorized access, enhance security.	SDG 9, SDG 11
ANSHUL SEMWAL			
HIMANSHU NAHELIA			
DANDAVENTI THRINETHRA	Digital Thermometer	Measure temperature accurately, ensure health monitoring, prompt alerts.	SDG 3
SUNKARI VARUN			
Shaina Das, Lovanya, Rohan, Ramakrishna, Tushar	Blind Stick	Aid navigation, detect obstacles, enhance mobility, improve safety, ultrasonic-based.	SDG3
Shivam, Sanjay, Naman	Ultrasonic sensor based security system for short distances.	Detect nearby intrusions, enhance security, provide alerts, short-range.	SDG9
Aryan, Anuj, Arun	Image transformations using MATLAB.	Apply image processing techniques, analyze transformations, improve visuals.	SDG10
Sandeep, Ishpreet, Pravara	Image Style Transfer using MATLAB	Transfer artistic styles, enhance images, create visually appealing results.	SDG11
Aatish, Karanveer, Rohit , Amaan, Satyam	Street light monitoring system using IOT.	Monitor streetlights, improve energy efficiency, enable remote control, IoT-based.	SDG9
Garima	Sensor Guided Robot	Navigate autonomously, avoid obstacles, perform tasks, sensor-based guidance.	SDG9
Shashank			
Aalekh			
Vibhor	water level indicator	Monitor water levels, prevent overflow, ensure optimal usage, provide alerts.	SDG6
Suraj			
ShanU			
Gaurav	Motion sensor light	Detect movement, automate lighting, save energy, enhance security.	SDG 7, SDG 11
Yashita			
Garvita			
Vishesh	Automatic Solar Tracker	Optimize solar panel orientation, maximize energy capture, increase efficiency.	SDG 7, SDG 13
Om			
Parth			
Harsh	Smoke Detection and Gas Leakage Monitoring System	Detect smoke, monitor gas leaks, provide alerts, enhance safety.	SDG 3, SDG 9
Vansh			
Mayank			
Bishal	Fire Detector Alarm	Detect fire presence, trigger alarms, enhance safety, early warning.	SDG 3, SDG 11
Abhinav			
Ayush			
Nisha	clap switch	Control devices using claps, improve convenience, simplify automation.	SDG9
Khushi			
Syeda			
Ishank			
Taniya			
Jalaj			

Mallika	VEHICLE SPEED LIMITER	Control vehicle speed, enhance safety, prevent speeding, regulatory compliance.	SDG 3, SDG 11
Nikita			
Tamanna			
Venkatesh	MUSIC RYTHM LED FLASH LIGHT	Sync LEDs to music, create visual effects, enhance entertainment.	SDG9
Pavan			
Rishik			
Nishant Verma	Automatic street light	Automate lighting based on ambient light, save energy, improve efficiency.	SDG 7, SDG 11
Nishant Gupta			
Satyam			
Kabir	Temperature operated switch	Activate devices based on temperature, automate control, enhance safety.	SDG 9, SDG 11
Nikhil			
Anuj			
Deepak	Automatic parking system	Automate parking process, improve efficiency, reduce human intervention, enhance convenience.	SDG 9, SDG 11
Prashant			
Lokesh			
Ayaz	Weather Station	Monitor weather conditions, provide real-time data, enhance forecasting.	SDG 9, SDG 13
Rahul			
Bhavishya			
Hiten	Fire alarm	Detect fires early, alert occupants, enhance safety, prevent damage.	SDG 9, SDG 11
SAURAV KUMAR			
VANSH MALIK			
AMAN P R	Floor cleaning Robot	Automate floor cleaning, save time, improve cleanliness, reduce effort.	SDG 9
HARSH MALIK			
AVULA CHANDRA SEKHAR REDDY			
CHALLAGUNDLA NARENDRA	accident prevention and indication	Prevent accidents, provide alerts, enhance safety, reduce risks.	SDG 3,SDG 11
CHENNAMPALLI NAGARJUNA			
CHILUKURI CHETAN SIDHARTHA			
KOTTALA SAI SANDEEP KUMAR	Water level indicator	Monitor water levels, prevent overflow, ensure optimal usage, provide alerts.	SDG 6
AZEEM PARVEZ			
VANSH SHARMA			
VISHESH	Air quality analyser	Monitor air quality, detect pollutants, improve health, provide data.	SDG 3,SDG 11
YASH RAWAT			
NISHANT SINGH			
AMIT YADAV	Smart irrigation system	Automate irrigation, conserve water, ensure plant health, reduce effort.	SDG 2,SDG 6,SDG 12
NITIN PANDEY			
YOGITA			
SAURAV BHARDWAJ	Smart irrigation system	Automate irrigation, conserve water, ensure plant health, reduce effort.	SDG 2,SDG 6,SDG 12
ALLA MOKSHAGNA REDDY			
ANUMANTHULA VIGNESH YADAV			
BADHAM DIVYA RAGHAVENDRA TEJA	Smart irrigation system	Automate irrigation, conserve water, ensure plant health, reduce effort.	SDG 2,SDG 6,SDG 12
DAPPILI MANVITHA			
KONKAYALA SAI SRIKANTH REDDY			

Shaina Dass	Design and simulate the following using CMOS inverter circuit using Tanner EDA, ensuring 5V supply voltage. Calculate delay and power consumption of each schematic. 1. CMOS Inverter 2. 2-NAND 3. Full adder	Design and simulate CMOS circuits; calculate delay and power consumption.	SDG 4, SDG 9, SDG 12
Lovanya			
Aryan Singh Chauhan	Design and simulate the following using CMOS inverter circuit using Tanner EDA, ensuring 5V supply voltage. Calculate delay and power consumption of each schematic. 1. CMOS Inverter 2. 3-NAND 3. D Flip Flop	Design and simulate CMOS circuits; calculate delay and power consumption.	SDG 4, SDG 9, SDG 12
Shivam Kumar Meena			
Nishchay Raj			
Tushar Suhag			
Naman Verma	Design and simulate the following using CMOS inverter circuit using Tanner EDA, ensuring 5V supply voltage. Calculate delay and power consumption of each schematic. 1. CMOS Inverter 2. 2-OR 3. Half Subtractor	Design and simulate CMOS circuits; calculate delay and power consumption.	SDG 4, SDG 9, SDG 12
Rohan Sharma			
Prawar Aswal	Design and simulate the following using CMOS inverter circuit using Tanner EDA, ensuring 5V supply voltage. Calculate delay and power consumption of each schematic. 1. CMOS Inverter 2. 3-NOR 3. D Flip Flop	Design and simulate CMOS circuits; calculate delay and power consumption.	SDG 4, SDG 9, SDG 12
Rama Krishna Reddy			
Deenisanaala Tagore Sanjay			
Anuj Sharma	Design and simulate the following using CMOS inverter circuit using Tanner EDA, ensuring 5V supply voltage. Calculate delay and power consumption of each schematic. 1. CMOS Inverter 2. 2-AND 3. Half Adder	Design and simulate CMOS circuits; calculate delay and power consumption.	SDG 4, SDG 9, SDG 12
Arun Rana			
Ishpreet Kaur	Design and simulate the following using CMOS inverter circuit using Tanner EDA, ensuring 5V supply voltage. Calculate delay and power consumption of each schematic. 1. CMOS Inverter 2. 2-NOR 3. Full Subtractor	Design and simulate CMOS circuits; calculate delay and power consumption.	SDG 4, SDG 9, SDG 12
Sandeep Gupta			