



UYIR

Road Safety hackathon.2025

Innovative Solutions For Safer Roads
08th & 09th February 2025

PRIZE MONEY ₹6.5 LAKHS

Participation Categories



Students



Professionals

Important Dates

Last Date
for Registration

5th

JAN 2025

Date for
Final Presentation

08th & 09th

Feb 2025

Venue & Organizing Partner



Sri Krishna College of
Engineering and Technology
Coimbatore, Tamil Nadu

REGISTER NOW



Entry Free!



Organizing Committee

Patrons



Thiru. Kranthi Kumar Pati, I.A.S.,
District Collector, Coimbatore



President
Thiru. Sanjay Jayavarthanavelu
Chairman, UYIR



Thiru. V. Balakrishnan, I.P.S.,
Commissioner of Police, Coimbatore City



Convenor
Dr. S. Rajasekaran
Managing Trustee, UYIR



Thiru. S.V. Balasubramaniam
Patron, UYIR



Organizing Secretary
Tmt. S. Malarvizhi
Trustee, UYIR

Technical Committee

Thiru. Sivaguru Prabakaran, I.A.S.,
Commissioner,
Coimbatore City Municipal Corporation

Thiru. G. Manuneethi
Divisional Engineer – Road Safety,
Tamil Nadu Highways Department,
Coimbatore City

Thiru. S. Ashok Kumar
Deputy Commissioner of Police – Traffic,
Coimbatore City

Thiru. K. Sathiya Kumar
Regional Transport Officer
Coimbatore Central

Dr. S. Marisamynathan
Assistant Professor,
Transportation Engineering,
NIT, Trichy

Thiru. J. Cyril Santhosh
Assistant Professor,
Transportation Engineering,
CIT, Coimbatore

Dr. V. Navin Ganesh
Assistant Professor (Selection Grade)
Transportation Engineering,
PSG iTech, Coimbatore

About UYIR

UYIR (Life) – A Community – Based Road Safety Initiative

UYIR is a Non-Governmental organisation registered under the Indian Trust Act in 2018. Road safety enthusiasts and philanthropists from Coimbatore, India, formed this initiative to achieve an “Accident- Free Society”

UYIR initiates the following programs to meet its core objectives

- To undertake any activity that promotes road safety among the citizens of Coimbatore District, specifically and the whole of India, over time
- To promote and involve the culture of road safety among students, studying in all educational institutions, and make them young and active ambassadors of road safety
- To spearhead a people’s movement for Road Safety in the whole country where every citizen will be champion for preventing road accident deaths or disability
- To create awareness amongst riders and pedestrians so that roads will no longer be killing fields
- To work with and assist Government departments, especially the Police and Road Transport departments, to achieve these goals.
- To enroll and work with like-minded organizations in this laudable project



UYIR Road Safety Hackathon 2024

Innovative Solutions for Safer Roads

Event Overview

The UYIR Road Safety Hackathon is a dynamic event focused on developing simple, cost-effective, and quickly implementable solutions to Enhance road safety, our goal is to bring together creative minds, including developers, designers, engineers, and safety experts, to brainstorm and prototype innovative ideas that can be rapidly deployed to make roads safer for everyone.



Event Objectives

Innovate

Generate fresh, actionable ideas to tackle Road Safety challenges

Optimize

Ensure that solutions are cost-effective, providing maximum impact with minimal resources

Simplify

Develop effective solutions that are straight forward and easy to implement.

Accelerate

create prototypes or strategies that can be quickly deployed and tested in real-world scenarios

Timeline

■ Stage 1

Project Abstract Submission

05 . 01 . 2025

■ Stage 2

Online Presentation

18.01.2025 for Professionals

20.01.2025 for Students

■ Stage 3

Announcement of Round-2 Shortlists

22.01.2025

■ Stage 4

Project Presentation & Prototype Submission

08 . 02 . 2025 & 09 . 02 . 2025

Themes & Key Area of Focus

Centered on technological innovation and community involvement, the themes focus on AI, IOT, and educational gamification to enhance road safety, alongside efforts to improve infrastructure, traffic management and inclusivity on road.



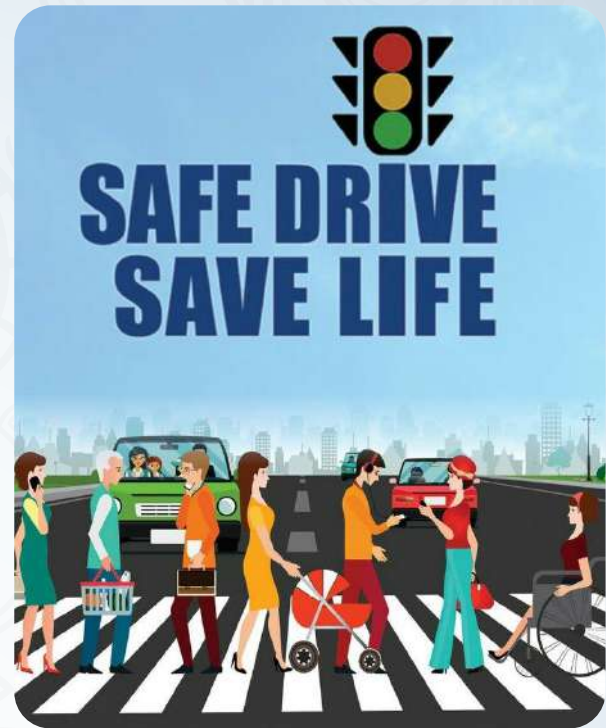
Coimbatore Road Safety Challenge

- Enhancing Pedestrian Safety at High-Traffic Intersections in Coimbatore
- Accident Hotspot prediction and prevention systems for Coimbatore
- Accident Detection and Emergency Response systems for Coimbatore
- Distracted Driving Prevention systems for Coimbatore
- Smart Driver Behavior Analytics for Coimbatore
- Interactive Interface for Government officials to Manage Coimbatore Traffic
- Smart Detection of Road Hazards in Coimbatore
- Mitigating Traffic Congestion near Educational Institutions during Peak Hours in Coimbatore



- Smart Enforcement of Traffic violation in Coimbatore
- Smart Warning Systems for negotiating U-turn and Intersections in Coimbatore
- Dynamic Parking management for inclusive mobility in Coimbatore city
- Efficient Route Planning for Slow-Moving Heavy Vehicles in Coimbatore city
- Enhancing Passenger safety at bus stops in Coimbatore

- Smart Highway Infrastructure for road safety with Integrated Weather Alert in Coimbatore
- Smart Traffic Signal and Intelligent Transport System for Accessible Crossings in Coimbatore
- Inclusive Mobility for Differently abled road users in Coimbatore
- Provision of safer roads for Non – Motorized Transport in Coimbatore





AI-Driven Road Safety Innovations

- Driver Feedback Systems
- Accident Hotspot Prediction and Prevention System
- AI-Driven Pedestrian Safety System
- AI Driven Vehicle Interaction for Mixed Traffic Safety
- Real-Time Hazard Detection and Notification System
- Smart Automated Parking and lot identification using AI



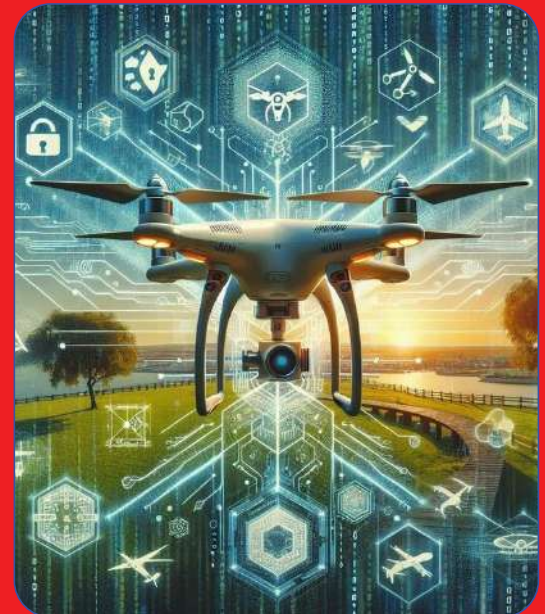
Community-Driven Road Safety Solutions

- Community Reporting System for Road Hazards
- Personalized Fatigue Management App
- Livestock Safety on Rural Highways
- Training and Simulation Platform for Traffic Personnel
- Smart Wearable for Enhanced Safety and Efficiency for Traffic personnel
- Knowledge of Traffic Rules and Regulations using Chat-bots



Drone Technology in Road Safety

- Aerial Traffic Monitoring and Congestion Management
- Rapid Emergency Response and Accident Assessment
- Wildlife Monitoring and Collision Prevention on Highways
- Infrastructure Inspection and Hazard Detection
- Drone-Assisted Enforcement of Traffic Violations



Gamified Road Safety Awareness and Education

- Virtual Reality (VR)/Augmented Reality (AR) Road Safety Adventure
- Road Safety Habit Tracker

Participation Categories



Students



Professionals

Who can Participate



Developers



Designers



Engineers



Students



Safety Professionals



Anyone Passionate about
Road Safety

Register
@
www.uyir.org

Prizes

FOR EACH CATEGORY

1st Prize

₹1,00,000

2nd Prize

₹ 75,000

3rd Prize

₹ 50,000



ROAD SAFETY – OUR RIGHT

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