



Module PMRF-ISSS089/2025

Edge Computing for Autonomous Vehicles

Name of the PMRF student

Suman Raj

Required background of the students taught

Electrical and Electronics Engineering, Electronics and Communication Engineering, Instrumentation and Control Engineering, Computer Science and Engineering, Students from Mechanical Engineering with an interest in robotics may also register.

Online session coordinator

Will be chosen from the list of registrants

Details of the content of the module

1. Introduction to Edge Computing and Autonomous Vehicles (AV)
2. Real-Time Onboard Data Processing and Decision-Making
3. Edge Computing Architecture in AV Environments
4. Selected Topics in AV Research: Edge – Cloud Collaboration
5. Selected Topics in AV Research: Depth Perception using Edge Devices
6. Applications, Case Studies, and Industry Standards
7. Open Research Challenges and Future Trends

All the sessions will be live interactions. The PMRF student will discuss these topics through presentations and research paper discussions.



Schedule of the module

Course Start Date: 7th September 2025

Course End Date: 14th September 2025

Session Dates: 7th, 13th and 14th September 2025

Total Duration: 9 hours

Session Timings: 10 AM – 1 PM IST

Meeting link : Will be shared later

Contact email ID: iss.forum@gmail.com

Registration link:

<https://forms.office.com/r/wtFHN3GkBn>