

About the Institution

Established in 1997 by the late philanthropist Padmabhushan Dr. B.V. Raju, B V Raju Institute of Technology (BVRIT) thrives under the aegis of Sri Vishnu Educational Society (SVES). Recognized for its excellence, BVRIT holds UGC Autonomous Status and boasts accreditations from AICTE, the Government of Telangana, JNTUH, and NBA for its core engineering branches (CSE, IT, ECE, EEE, Chemical, Mechanical, and Civil). Led by Chairman Sri K.V.Vishnu Raju garu, a Distinguished Leader with a background in Chemical Engineering (REC Trichy & Michigan Technological University, USA), BVRIT fosters a holistic learning environment, renowned for its best practices in teaching and learning, selective student intake, exceptional infrastructure, and a stellar placement record.

About Harita Techserv

Leveraging the established legacy of the TVS Group, Harita Techserv provides a solution for companies facing talent acquisition challenges in the technical engineering field. Recognizing the complexities of today's business environment, Harita offers flexible, on-demand engineering design solutions and targeted sourcing of highly qualified technical resources. Their meticulous screening processes guarantee clients access to top-tier talent with domain expertise, maximizing productivity through on-site services, and ultimately delivering a measurable return on investment. This commitment to client success is a core value instilled by Harita's heritage.

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Coordinators

Y. Vijay Kumar, Asst. Prof, Dept. of EEE
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B V RAJU INSTITUTE OF TECHNOLOGY

(UGC- Autonomous) with NAAC A+ Grade
Narsapur, Medak, Telangana-502313
Department of EEE & ECE

Faculty Upskilling Programme (FUP)

on
AUTOELECTRONICS



**27 Jan - 12 Feb
2025**



**Knowledge Partner - Harita
Techserv Pvt. Ltd, Coimbatore**

About CAE

BVRIT Narsapur, in partnership with Harita Techserv, has launched the Center for Auto Electronics (CAE). This initiative aims to bridge the gap between theoretical knowledge and practical application in the automotive electronics field. The CAE will offer targeted training programs for students in Electrical & Electronics Engineering, Electronics & Communication Engineering, and Mechanical Engineering, fostering a skilled workforce for the ever-evolving automotive industry.

About FUP

The Faculty Upskilling Program (FUP) on Automotive Electronics conducted by Harita Techserv Pvt. Ltd., Coimbatore, is scheduled from January 27, 2025, to February 12, 2025. The program focuses on the fundamentals and advanced concepts of automotive electronics, emphasizing practical applications. The training covers hands-on on various topics such as electronic control units (ECUs), CAN protocols, RKE systems, CAN bus analysis, scripting, and diagnostic protocols using Embedded C Programming, CANdb++, TSMaster.

FUP Outcomes

Understanding Automotive Electronics:

- Gain knowledge of Electronic Control Units (ECUs) and their types.
- Develop a foundation in C programming relevant to automotive systems.

Programming Skills:

- Mastery of conditional and iterative statements, functions, and structures in C.
- Implementation of automotive functionalities using programming techniques.

CAN Protocol Proficiency:

- Familiarization with CAN messages, layouts, and databases.
- Development and mapping of CAN communication matrices.
- Practical skills in CAN message transmission, reception, and response programming.

Advanced Tools and Analysis:

- Hands-on experience with TS Master Testing Tool and PCAN Explorer.
- Skills in CAN signal analysis, logging, replay, and bus statistics.
- Execution of Rest Bus Simulation (RBS) and related tasks.

System-Level Implementation:

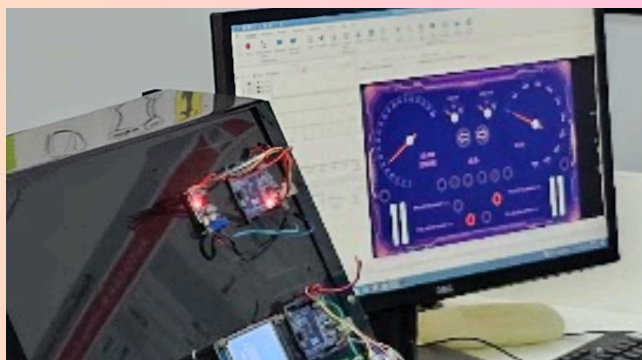
- Introduction to CAPL scripting for event-based and communication functions.
- Panel simulations and instrument cluster testing.
- Implementation of safety logic, such as seat belt warnings.

Diagnostics and Protocols:

- Understanding UDS protocol services, request-response mechanisms, and their applications in vehicle diagnostics.

Resource persons

- Harita Techserv Team



Help Desk

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