



**RV College of
Engineering®**

CENTRE OF COMPETENCE

RV-MERCEDES BENZ CENTRE FOR AUTOMOTIVE MECHATRONICS

Vision : RV-MB Centre for Automotive Mechatronics envisions Leadership in Human Resource Development in Automotive Mechatronics and its advances.

Mission : Training students and industry personnel on automotive mechatronics through MB Academia designed curriculum and state-of-the-art infrastructure, developing human resource enhancing employability in service / manufacturing R&D sectors and entrepreneurship and Instill life-long learning through self-learning and peer interactions.

RV-Mercedes Benz Collaboration:

1. German technology meets Indian talents.
2. Intensive training on both IC and EV Technology
3. State- of-the- art facility provided by MBIL and MBRDI
4. Hands-on with XENTRY diagnosis portal system
5. Practical sessions on high end Mercedes Benz car
6. Modelling and Simulation of EV Technology using MATLAB - SIMULINK
7. Extensively trained faculty by MBIL and MBRDI
8. Regular interaction with experts from Mercedes Benz to keep abreast of latest developments

Curriculum

1. Mechanical Module: Engine - Modern engines and their functions, Transmission, Chassis systems, Maintenance and Servicing of Modern Vehicles, Introduction to Workshop Information System (WIS), PDI & servicing - Preparation of work plan using maintenance checklist. Quality services.
2. Electronics Module: Basic Electrics, Wiring Diagram - symbols and designation of electrical components, sockets & pin diagrams, Reading of wiring diagram. Basic Electronics, Principle & applications of sensors, Digital Electronics, Basics of CAN bus, networking of control units using CAN bus, Location of CAN voltage distributor, Interior & Exterior CAN.
3. Advanced Automotive Systems: Vehicle Component Study; Vehicle Management System: Functions of Engine management & Emission control management - i.e. Advanced CDI, MESFI, Catalytic converter etc., ESP, ABS, BAS, ASR, Parktronic, SRS, Auto transmission electronic control. Telematics (Basic), MOST, D2B, Auto air-conditioning etc.
4. Electric Vehicle Technology: Systems module, E Learnings, Awareness to High Voltage Systems, Safety - Do's and Don'ts, High Voltage measurements, practicals on High Voltage car, simulation and modelling on HV test bench.
5. Soft Skill Development: Communication skills-Verbal Communication, Body language, Presentation skill using modern aids, written communication - Business letter writing, Technical Report writing, etc.
6. Workshop Attachment Module: One week training at dealer's workshop to perform a maintenance service activity and practice the various process of vehicle maintenance.



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Placement Record

Table1: Placement Statistics for last 05 years		
SL No	Company Name	No. of students
1	Mercedes Benz Dealerships	07
2	Mercedes Benz Research and Development	05
3	OLA Electric	05
4	Robert Bosch	05
5	Volvo Trucks Research and Development	02
6	E-Vehicle Start-up	02
7	Engine CAL	01
8	LYKAN Automotive	01
9	<u>Amtronics</u>	01
10	<u>Duroshox</u>	01
11	Entrepreneurs	03
12	<u>Suprajith</u> Engineering, Bengaluru	01
13	<u>Deevia</u> Software (Autonomous Vehicle company)	01
14	WIPRO-IISc AV Project, Research Scholar	01
15	Higher studies	02
16	Ampere Greaves	02
17	Sponsored Students	10
18	Range Rover Automotive Company, Kuwait	01
19	<u>Autobedrijven</u> , Belgium	01
20	<u>Nord Ostsee</u> Automobile, Germany	11

Gallery



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