

Mercedes-Benz



Advanced Diploma in Automotive Mechatronics Course

New vocational training program that aims to develop skilled automotive professionals proficient in high-end car and latest technology.



RV College of Engineering®

Mysore Road, RV Vidyaniketan Post, Bengaluru - 560059, Karnataka, India

Brief introduction about the Institution, it's leadership and the course coordinator.

RV College of Engineering® (RVCE) established in 1963 is one of the earliest self-financing engineering institutions in the country. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST) a not-for-profit Trust. RVCE is an Autonomous college. Currently, the institution offers 15 Bachelor, 14 Master Programs and 15 departments have Research Centres, affiliated to Visvesvaraya Technological University (VTU) Belagavi.

Dr. Sridhar leads the globally certified "Advanced Diploma in Automotive Mechatronics (ADAM)" program at RVCE, which has been offered in collaboration with Mercedes-Benz since 2018. He is a certified trainer for the ADAM program and completed comprehensive training at the Mercedes-Benz India, Pune the same year.

Course overview

This Advanced Diploma in Automotive Mechatronics is a specialized vocational training program offered jointly by Mercedes-Benz Academy, India, and RV College of Engineering®. It is designed to meet the growing demand for skilled automotive professionals and equips aspiring engineers with the latest world-class automotive technology skills. This course focuses on developing multidisciplinary competencies to navigate modern automotive technology challenges which addresses industry's demand for skilled professionals. Additionally, it emphasizes on the development of essential soft skills, particularly in thorough communication, crucial for successful interaction within the automotive industry.



Awards and recognition, commitment to the academic excellence.

- 99th Rank in NIRF Engineering 2024.
- 1501+ in Times Higher Education World University Rankings 2024.
- 501-600 in Times Higher Education World University Rankings 2024 (Asia).
- 1001+ in Subject Ranking (Engineering) by Times Higher Education.
- 801+ in Subject Ranking (Computer Science) by Times Higher Education.
- 1001+ in Impact Rankings.
- 10th National Rank, 2nd State Rank, and 5th Zone Rank in IIRF 2023 (Engineering Ranking India).
- Diamond University Rating (2021-2024) by QS-IGauge.
- AAA Rating in NPTEL.
- 6 years of NBA Accreditation for 6 UG programs in Tier 1 category and 5 years for the MCA program.

Course highlights:

- Comprehensive vocational training program focusing on advanced automotive technology.
- Curriculum developed and overseen by Mercedes-Benz Academy, ensuring industry relevance.
- Hands-on learning with state-of-the-art tools and equipment.
- Small class sizes fostering personalized attention and collaborative learning.
- Emphasis on practical skill development through workshop modules.
- Opportunities for final assessment and certifications by industry experts
- Interactive sessions including group discussions, presentations, and debates on automotive technologies.
- Integration of computer-based training materials and technical information.
- Pathways to employment within Mercedes-Benz network and leading automotive OEMs.



CURRICULUM HIGHLIGHTS

This training encourages self-reliance, where trainers facilitate students' learning by guiding them towards solutions rather than providing ready-made answers. Unlike traditional classrooms, this approach enhances independent problem-solving skills.

ADAM emphasizes practical learning, where students engage hands-on with cars, engines, transmissions, and other automotive components. This hands-on approach is central to the course's methodology.



Learning outcome:

- Remove & install components of a car.
- Measure mechanical, electrical and electronics parameters for systems and components used in a car
- Carry out PDI (Pre- Delivery Inspection) and Maintenance of a car.
- Read and interpret the wiring diagrams of vehicle systems.
- Use modern diagnostic equipment.
- Diagnose various faults and rectify the same.
- Communicate with customers and others for technical issues on the vehicle.



Admission process:

Admission to the ADAM course is based on entrance tests, which candidates must pass to be eligible.

The entrance test comprises three parts:

- 1. Written Test (Total 125 Marks)**
- 2. Practical Test (100 Marks, Optional)**
- 3. Personal Interview: Mandatory**

Application is based on test scores, with the top candidates advancing through each stage:

- Typically, the top 60 out of over 60 candidates will take the practical test.
- The top 30 from the practical test will be interviewed.
- The top 20 from the interview will be admitted.

Degree or diploma marks are not considered.

Table1: Placement Statistics for last 05 years (2018-19 to 2023-24)		
SL No	Company Name	No. of students
International Placements		
1	Range Rover Automotive Company, Kuwait	01
2	Autobedrijven, Belgium	01
3	Nord Ostsee Automobile, Germany	11
Indian Placements		
4	Mercedes Benz Dealerships	07
5	Mercedes Benz Research and Development	05
6	OLA Electric	05
7	Robert Bosch	05
8	Volvo Trucks Research and Development	02
9	E-Vehicle Start-up	02
10	Engine CAL	01
11	LYKAN Automotive	01
12	Amtronics	01
13	Duroshox	01
14	Entrepreneurs	02
15	Suprajith Engineering, Bengaluru	01
16	Deevia Software (Autonomous Vehicle company)	01
17	WIPRO-IIScAV Project, Research Scholar	01
18	Higher studies – MS in Automotive Engg., Sweden	01
19	Ampere Greaves	02
20	Sponsored Students	10

ADMISSION INFORMATION

Eligibility:

Diploma or Degree in Mechanical/ Electronics/ Instrumentation/ Automobile or equivalent Engineering

Course duration: One year – full time.

Scholarship: Meritorious Female Candidates.

Institute and Mercedes-Benz partnership

The Advanced Diploma in Automotive Mechatronics (ADAM) is a distinctive program initiated in 2018 through a strategic partnership between RV College of Engineering, Bangalore, and Mercedes-Benz India Pvt. Ltd. This collaboration ensures that the curriculum is aligned with industry practices, offering students hands-on experience with Mercedes-Benz components and vehicles at RVCE's Centre for Automotive Mechatronics. The program aims to produce industry-ready professionals for roles in Mercedes-Benz dealerships, automotive manufacturing plants, R&D centers, and other automotive brands. ADAM features include training in German technology, a selective intake of engineers through an entrance exam, intensive practical sessions, and regular interactions with Mercedes-Benz experts. Students gain experience with advanced tools like the Xentry portal system and work directly on high-end Mercedes-Benz cars.



The course content is designed in collaboration with Mercedes-Benz India to keep pace with advancements in automotive mechatronics. It covers five key modules: Mechanical, Electronics, Advanced Automotive Systems, Electric Vehicle Technology, and Soft Skill Development. Additionally, the program includes on-the-job training at Mercedes-Benz dealerships, further bridging the gap between theoretical knowledge and practical industry experience. This well-rounded approach ensures that graduates are equipped with both technical skills and industry exposure, making them highly employable in the rapidly evolving automotive sector.

**For further details, contact:**

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