

Entrance examination Center: R V College of Engineering, Mysore
Road, Bengaluru – 560059.

Note: The candidates should reach the respective test centres at least
30 minutes before the commencement of the test exam.

Selected candidates have to produce testimonials for verification and pay the course fee in order to confirm the admission. The tuition fee Rs 1,25,000/- plus GST @ 18 % (Rs One lakh forty seven thousand five hundred only) should be paid through Demand Draft In favour of Principal, R.V. College of Engineering, Bengaluru.

For further information, contact:

Dr. Sridhar R

Mob : 9740400717, E-mail: sridharr@rvce.edu.in

Dr. H. N. Narasimha Murthy

Mob: 99017 45089 E-mail: narasimhamurthyhn@rvce.edu.in



RVCE - Mercedes Benz Centre
for Automotive Mechatronics, R V College of Engineering, Bengaluru
(An Autonomous Institute Affiliated to VTU, Belagavi)
Mysuru Road, Bengaluru - 560059. Website: www.rvce.edu.in
Phone: 080 - 67178000 - 03, Fax: 080 - 67178011
Website: www.rvce.edu.in
Social media: [@rvceadam](https://www.instagram.com/rvceadam)



RVCE - Mercedes Benz Centre

for Automotive Mechatronics
RV College of Engineering®, Bengaluru
(An Autonomous Institute Affiliated to VTU, Belagavi)



ADVANCED COURSE IN AUTOMOTIVE MECHATRONICS (A Programme in Collaboration with Mercedes-Benz India Pvt. Ltd.)

R V College of Engineering, established in 1963, offers 12 Undergraduate, 19 Postgraduate and doctoral programmes. The college is located in a sprawling campus of 52 acres on Mysuru Road at 13 km from Bengaluru City. Reckoned as one of the best engineering colleges in India, the college provides excellent ambience for higher learning emphasizing training and skill development along with academics and research. The college has established excellent laboratory, workshop, computing and research facilities in collaboration with funding agencies and industries. RVCE - Bosch Rexroth Centre for Competence in Automation conducts proficiency courses and training in Hydraulics and Pneumatics and Automotive Mechatronics. The Institution has established Centres of Excellence in Macroelectronics (under TEQIP) and Internet of Things (in association with CISCO). The Institution has signed MoU with Florida International University-USA for joint academic and research collaboration. Placement is nearly 100 % in most of the programmes with highly attractive offers.

About Mercedes Benz

Mercedes-Benz is a leader in luxury car market with over 128 years of cutting edge innovation in the areas of Technology, Safety, Reliability, Comfort and Environment. The company owns world class brands such as Mercedes-Benz, AMG, FUSO, Smart, Maybach, Freightliner and Western Star. Established in 1994, Mercedes Benz India Private Ltd. set up a world class production facility in 2009 with an independent assembly facility for passenger cars. The facility is among the fastest green-field operations ever to be created and is rated one amongst the top most plants of Mercedes-Benz, globally. Mercedes-Benz India's strong focus on its four pillars of Products, Network, Cost of Ownership and Brand experiences has led the company's growth story with a total of 94 outlets located in 57 Indian cities, making the densest brand network in the luxury car segment.

The German car manufacturer under the initiative of Indo-German chamber of commerce introduces '**Advanced Course in Automotive Mechatronics**' in association with R V College of Engineering, Bengaluru. The prime reason for introducing the course is the scarcity of skilled automobile technicians considering modern cars with high end technology. Mercedes is involved in planning the course syllabus, development of modern electronics lab, car bay, aggregate training rooms equipped with Mercedes-Benz training cars, engines, transmissions, training of faculty and supply of tools & equipment to train students in-line with the rapidly growing luxury automotive sector not only in India but across the globe. The aim of the course is to produce qualified,

industry-ready professionals to be recruited at dealerships of MBIL as well as other brands of automobiles, automotive manufacturing plants and also at automotive R&D centers.

Relevance of Advanced Course in Automotive Mechatronics.

Automobile Industry in India is growing rapidly and is also maturing at a faster pace not only in terms of size and model variants available but also in terms of technological advancements in new cars. Across all vehicle segments, the automotive technology is becoming more and more sophisticated with stringent regulations and increased customer awareness. To cater effectively to after sales service requirements of these technologically advanced vehicles, well qualified and skilled technical manpower is needed by all brands at dealerships as well as in the automobile industry all over the country.

Features of Industry-Academia collaboration to bring the best of both worlds:

- German technology meets Indian talents
- Intensive training
- State of the art facility provided by Mercedes Benz
- Hands-on on Xentry portal system
- Practical experiments on high end Mercedes Benz car
- Extensively trained faculty by Mercedes Benz India Pvt Ltd.
- Regular interaction with experts from Mercedes Benz to keep abreast of latest developments in industry

Course Content: The course content and methodology is derived in collaboration with Mercedes-Benz, India to suit the needs of the advances in Automotive Mechatronics. The course consists of following five modules:

- i. 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.
- ii. 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.
- iii. 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.

- iv. Soft Skill Development: Communication skills-Verbal Communication, Body language, Presentation skill using modern aids, written communication - Business letter writing, Technical Report writing, etc.
- v. Workshop Attachment Module: One week training at dealer's workshop to perform a maintenance service activity and practice the various process of vehicle maintenance.

Faculty: Faculty / trainers from R V College of Engineering, are Doctorates / Postgraduates in Engineering with rich experience and are trained on Automotive Mechatronics at Mercedes-Benz plant in Chakan, Pune.

Course Duration: 1 year (5 modules)

Course Fee: Rs 1,25,000/- plus GST @ 18 % (Rs One lakh forty seven thousand five hundred only) for the entire course to be paid at the time of Admission before 31 Aug 2019.

Course Intake: 20 students

Eligibility: Diploma or Engineering Degree in Mechanical Engineering /Automobile Engineering /Electronics or Electrical Engineering /Instrumentation Engineering and allied branches.

Certification: On successful completion of the course, students will be awarded Advanced Course in Automotive Mechatronics by Mercedes Benz

Admission: Admission is through Entrance Test only. The test is based on Basic Automotive, Basic Physics, Analytical reasoning, Numerical ability, English, Engineering Drawing and Skill Test.

Application form for entrance examination has to be downloaded from website: www.rvce.edu.in The filled - in application form along with the attested photocopies of mark sheets and certificates of Diploma/Degree in Engineering and a DD of Rs.500/- (non-refundable entrance examination fee) favouring Principal, R V College of Engineering, Bengaluru to be sent to Principal, R V College of Engineering, 8th Mile, Mysuru Road, Bengaluru-560 059 on or before 15 July 2019.

Important Dates		
No.	Event	Date
1.	Last date for receiving applications	15 July 2019
2.	Written test	30 July 2019
3.	Announcement of selected students	5 Aug 2019
4.	Last date for payment of fee	31 Aug 2019
5.	Course commencement	4 Sep 2019