



GOVERNMENT POLYTECHNIC, CHH. SAMBHAJINAGAR

(An Autonomous Institute of Government of Maharashtra)

Osmanpura, Station Road, Chh. Sambhajinagar-431 005

Website: www.gpabad.ac.in Email: gpaur@rediffmail.com

Phone: 0240-2334724 / 2360781 Fax: 0240-2353644

Mercedes Benz

ADVANCED DIPLOMA IN AUTOMOTIVE MECHATRONICS (A Course Developed in Collaboration with Mercedes-Benz India Pvt. Ltd.)



Government Polytechnic, Chh. Sambhajinagar is a leading Polytechnic of Technical Education Department, Government of Maharashtra. This institute is accredited by NBA with Excellent Grades and is also elected under World Bank TEQIP project. Academic Autonomy has been conferred on this Institute since 1994. The institute had been awarded Best Polytechnic award for the year 1996-97, by Government of Maharashtra for consistent excellent performance in Technical Education. The Institute also has been conferred by ISTE Narsee Monjee Award for Best Polytechnic having Best Overall Performance in Maharashtra State in the year 2006. The institute is located in Industrial Zone. Majority of these industries are related to Automobile, Information Technology and Electronics & Telecommunication sectors.

About Mercedes-Benz

Mercedes-Benz a pioneer in the International industry owns brands such as **Mercedes-Benz, Smart, Maybach, Freightliner** and others. These brands represent a formidable force in the automotive industry and reflect not just pioneering technology but technology that is path breaking. Today its brands stand for Technology, Safety, Reliability, Comfort and Environment. In alliance with several other component manufacturers of repute, they are developing new and advanced systems that are taking automotive technology to new heights.

Mercedes-Benz India Private Ltd. since its establishment in 1994 has been one of the first auto joint ventures set up in India. The company has a long-term commitment to the Indian market. Government Polytechnic, Chh. Sambhajinagar and Mercedes-Benz India Private Ltd. had jointly introduced the **Advanced Diploma in Automotive Mechatronics** course. The collaborative course will enable students to be trained as per the highest standards of modern automotive technology and thereby will bring added synergies between technological innovations and market demands for skilled personnel.

Why Automotive Mechatronics course?

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, good qualified and well versed technical human resources will be required by all brands at dealerships as well as in the automobile industry all over the country. Automotive Mechatronics course intends to address these requirements through this course.

Course Content: The course content and methodology is derived in collaboration with Mercedes-Benz India to suit the needs of the state of art automobiles. The course consists of following five modules.

- 1. Mechanical Module:** Engine - various modern engines and its functions, Transmissions, Chassis systems, Maintenance & Servicing of Modern Vehicle, Introduction to Workshop Information System (WIS), PDI & servicing - Preparation of work plan using maintenance checklist, Quality services, etc.
- 2. Electronics Module:** Basic Electrics, Wiring Diagram - symbols & 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; Different 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, Telemetric (Basic), MOST, D2B, Auto air-conditioning etc.

4. Soft Skill Development: Communication skills- Verbal Communication, Body language, Presentation skill using modern aids, written communication - Business letter writing, Technical Report writing, etc.

5. Workshop Attachment Module: One month training at various dealer's workshop to perform a maintenance service activity and practice the various process of vehicle maintenance.

Faculty: Faculties / trainers from Government Polytechnic are Post Graduates in Engineering and having vast teaching experience. They have been trained on advanced automotive systems at Mercedes-Benz plant in Chakan, Pune under German trainer.

Course Duration: 1 year (5 modules)

Eligibility: Diploma OR Degree in Engineering. (Mechanical, Automobile, Electrical, Electronics, Electronics & Telecommunication, Instrumentation, Production) OR B.Voc (Automobile, Industrial Automation)

Course Fees: Tuition fees Rs 1,00,000/- should be paid before the admission confirmation.

***NOTE:- 1. The admission will be confirmed only after full payment of tuition fees i.e. Rs. 1,00,000/-**

Scholarships: Mercedes Benz India Ltd. Will provide Scholarship to deserving students of ADAM.

Course Intake: 22 students (5 seats are reserved for Mercedes-Benz dealer sponsored candidates).

Eligibility Criteria: A candidate who has passed AICTE & MSBTE approved Diploma or Degree in Mechanical/Automobile/Electronics/Instrumentation/Electrical Engineering/production branches or B.Voc(Automobile, Industrial Automation) is eligible for admission to this course.

- **NOTE :-** The candidate's passed from Diploma or Degree in Mechanical/Automobile/Electronics/Instrumentation/Electrical Engineering/production branches or B.Voc(Automobile, Industrial Automation) allowed to appear for the exam and give the test. If the candidate is selected their admission will be confirmed only if they successfully complete their diploma/ degree (i.e. when they have authentic mark sheet) and submit the document before the date of commencement of course.

Certification: After successful completion of the course, students will be given Certificate of "Advanced Diploma in Automotive Mechatronics".

It shall be signed by Principal, Govt. Polytechnic, Chh.Sambhajinagar and officer from Mercedes Benz India Pvt. Ltd.

Admission Process: Admission to the course is through Entrance test, Practical Test and personal interview

Syllabus for written Entrance Test:- (Total 125 Marks)

(Questions for all following syllabus based on Multiple Choice Questions (MCQ) only.)

Basic Automotive :- (25 Marks)

Working and constructional features of C.I. and S.I. engines, Transmission, Braking system, Steering and suspension system, Wheels & Tyres.

Basic Physics:- (25 Marks)

Force, Velocity & acceleration, Time & Work, scalar & vector quantity, Friction, rating of battery, Electrical circuit, Electric resistance, Inductance, Capacitance & their units, Mutual inductance, Ohms Law, Electric work, power & Energy, connection of Ammeter & Voltmeter, Semiconductor, Welding Process & alloys

Analytical reasoning (25 Marks), Numerical ability (25 Marks), Aptitude Test (25 Marks)**Syllabus for Practical Test:- (Total 50 Marks)**

1. Isometric, orthographic projections & its symbols, (10 Marks)
2. Measurements using Vernier caliper (10 Marks)
3. Measurements using Multimeter (10 Marks)
4. Skill test. (20 Marks)

Application form for entrance examination has to be **downloaded** from website: www.gpabad.ac.in The Print out of downloaded filled-in application form along with the attested photocopies of mark sheets and certificates of Diploma/Degree in Engineering and DD of Rs.1000/- (non-refundable entrance examination fees) favoring “**Principal, Government Polytechnic, Chh.Sambhajinagar**” Payable at **Chh.Sambhajinagar** should be sent to the “Principal, Government Polytechnic, Osmanpura, Peer bazar Station Road, Chh.Sambhajinagar 431001” on or before the last date of submission of form as per Admission schedule.

No separate letter/ hall ticket will be issued to the candidates in this regard. The candidates are required to bring with them any one from PAN Card/ Driving License/ Aadhaar Card or any other valid ID proof for entrance test along with the Original essential educational documents. Candidates must come along with mask and sanitizer.

- If any postal difficulty for sending the DD of Rs. 1000/- & required educational documents along with form the candidate may send the scanned copy of the same along with the form on give mail (adamgpaur@gmail.com) But candidate in such a case candidate must produce original DD of Rs.1000/- & required educational documents along with form at the time of Entrance Test.
- Interested & eligible candidates please fill up the required data in the Google link <https://forms.gle/3E7uf6iouk9coCZX9> so that it is convenient to them the updates if any. Those candidates already fill up their information in given link don't fill up again.

Entrance examination test center, Practical, Skill test & Interview center: Department of Advanced Diploma in Automotive Mechatronics center in front of Government Polytechnic & near the Aeronautical & Yamaha Training center, Osmanpura, Peer bazar, Station Road, Chh.Sambhajinagar

NOTE: The candidates should reach for Entrance test least 1 Hr before the commencement of the test exam. No separate letter/Hall ticket will be issued in this regard.

ADMISSION SCHEDULE

Advertisement in News Papers : 04.07.2026 in different News Papers

Last date for receipt of filled admission form : **09.07.2026 up to 11:00 am**
Entrance Test & Practical Test on : **10.07.2026- 12:00 afternoon**
Display of merit list : **10.07.2026 - 04:00 pm**
Reporting for confirmation of admission : **15.07.2026 up to 2:00 pm**
Waiting list will be operated : **15.07.2026 at 4:00 pm**

Commencement of course : This date will be decided as per Govt. guidelines, rules & regulation. The same will be communicated to all the candidates who has confirmed the admission through mail. At the time of confirming the admission the selected candidate should send scanned copy of their tuition fees DD on given mail & Whatsapp. At the time of actual commencement date of course they should produce their original educational documents & original DD of tuition fees. The candidate willing to take admission should pay full tuition fees as mentioned above in order to confirm the admission. The tuition fee Rs 100000/- (Rs.One Lac only) should be paid through Demand Draft favoring **“Principal, Government Polytechnic, Chh.Sambhajinagar” Payable at Chh.Sambhajinagar.**

Limited seats for Hostel accommodation on payment basis are available.

Final admission confirmation will be given once the educational documents & DD for conformation of admission are verified once he /she reports to the ADAM Center Government Polytechnic Chh.Sambhajinagar

For details contact:

Contact Persons –Co-ordinator and trainer of ADAM GP Chh.Sambhajinagar

Prof. N.M.Bhokre -**9423346851**

Prof. G.G.Vaishnav -**8421294395**

Sd/-
Co-ordinator
Advance Diploma in
Automotive Mechatronics
Govt.Polytechnic,Chh.Sambhajinagar

Sd/-
Principal,
Govt.Polytechnic,Chh.Sambhajinagar