



Mercedes-Benz

**GOVERNMENT POLYTECHNIC, PUNE**  
(An Autonomous Institute of Maharashtra Government)  
Pune University road, Pune-411016

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## **Advanced Diploma in Automotive Mechatronics**

(A course developed in collaboration with Mercedes-Benz India Pvt. Ltd.)

Government Polytechnic, Pune is the largest and leading Polytechnic College of Technical Education Department, Government of Maharashtra. This institute is accredited by NBA for Excellent Grades and is also elected under World Bank TEQIP project. It is surrounded by Industrial Zone of the State. Majority of these industries are related to Automobile, Information Technology and Electronics and Telecommunication sectors. Academic Autonomy has been conferred on this Institute since 1994. The institute had been awarded Best Polytechnic award for the year 1998-99, by Govt. of Maharashtra for consistent excellent performance in Technical Education.

### **About Mercedes-Benz:**

Daimler AG, Germany, a pioneer in the Automotive Industry, own 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 Pvt. Ltd. is a 100% subsidiary of Daimler AG group and 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, Pune and Mercedes-Benz India Pvt. Ltd. had jointly introduced the **Advanced Diploma in automotive Mechatronics** course. The collaboration with the Government Polytechnic, Pune towards

introduction of a course 'Advanced Diploma in Automotive Mechatronics' 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 manpower 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 this requirement through the 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.

#### **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. Electrical Module:**

Basic Electrics, Wiring Diagram - symbols & designation of electrical components, sockets & pin diagrams, Reading of wiring diagram.

#### **3. Electronic Module:**

Basic Electronics, Principle & applications of sensors, Digital Electronics, CAN BUS- Basics of CAN bus, Networking of control units using CAN bus, Location of CAN voltage distributor, Interior & Exterior CAN.

#### **4. 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, Distronic, Parktronic, SRS, Auto transmission electronic control, Telematics (Basic), MOST, D2B, Auto air-conditioning etc

#### **5. Soft Skills development:**

Communication skill– Verbal Communication, Body language, Presentation skill using modern aids, Written communication – Business letter writing, Technical Report writing, etc

Faculties / trainers from Govt Polytechnic are Post Graduates in Engineering and have vast teaching experience. They have also been trained on advanced automotive systems by Mercedes-Benz India.

**Course Duration:**

1 year (4 modules)

**Course fees:**

Rs 80,000 only

**Course Intake:**

40 students for academic year 2009-10, 10 seats are reserved for Mercedes dealer sponsored candidates

**Hostel facility:**

Rs 15,000 per annum (Lodging only). *Limited hostel facility Available.*

**Admission process:**

Admission to the course is through Entrance Test only.

**Eligibility criteria:**

Diploma / Degree in Mechanical Engineering / Automobile Engineering / Electronics Engineering / Instrumentation Engineering.

**Certification:** After successful completion of the course, students will be given Certificate of Advanced Automotive Mechatronics Course.

**Admission Schedule:**

Admission form can be downloaded from our website. Filled-in application form along with processing fee of Rs. 500 should be sent to Principal, Government Polytechnic, Pune. The DD should be in favor of "Principal, Government Polytechnic" payable at Pune.

***For details contact:***

**Contact Persons –**

**Prof. Mr. Bhavesh Karhade- Coordinator, Mobile – 9422551535**

**Prof. M. J. Deshpande – 9423238749**

**Prof. V. S. Sonawane – 9423577845**

Application Form No.

Government Polytechnic  
University Road, Pune-411 016  
(An Autonomous Institute of Maharashtra State)

Application form for the admission to

**Advanced Diploma in Automotive Mechatronics Course**

For office use	Entrance Test marks Theory: _____ Practical _____ Tuition fee details:	Paste Recent Photo graph
Receipt No.....		
Date : .....		
Merit No: .....		
Registration no: .....		

1. Name of Candidate:

(In Block letters)      First name                      Middle name                      Surname

2. Residential Address :

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\_\_\_\_\_

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3. Telephone No. Residential: \_\_\_\_\_

Mobile \_\_\_\_\_

Email-Id \_\_\_\_\_

4. Date of Birth: \_\_\_\_\_  
Place of Birth: \_\_\_\_\_ Taluka \_\_\_\_\_  
District : \_\_\_\_\_  
State of Domicile \_\_\_\_\_

5. Name and address of Last Institute attended:

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6. Details of Employment or Industrial Training

Sr. No	Name of the Organization	From	To	Years	Nature of Work

7. Examinations passed (attach True Copies)

Sr. No	Examination	Year of passing	No. of Attempts	Marks out off	Examining body

## DECLARATION

I hereby declare that the information given in this application is true and that no information is willfully suppressed by me. I stated to be disqualified from being admitted to this course in the event of my being found to have rendered false information.

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of Candidate