



Mercedes-Benz

## **GOVERNMENT POLYTECHNIC, PUNE**

**(An Autonomous Institute of Maharashtra Government)**

**Pune University road, Pune-411016**

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**Phone: 020-25655907, 020-25530986, Fax: 020-25656217**

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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 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 & 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 Government 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 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 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 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 four 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, CAN BUS- 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 GDI, MESFI, Catalytic converter etc, ESP, ABS, BAS, ASR, Distronic, Parktronic, SRS, Auto transmission electronic control, Telematics (Basic), MOST, D2B, Auto air-conditioning etc

#### **4. Soft Skill development:**

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

#### **Faculty:**

Faculties / trainers from Government 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 2011 -12 (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 Diploma in Automotive Mechatronics**.

## ADMISSION SCHEDULE

Admission schedule for the year 2011-12 for ADMA will remain as follows:

Availability of admission form on <a href="http://www.gppune.ac.in">www.gppune.ac.in</a>	from : Jun. 15, 2011
Last date of submission of form	: Sep. 15, 2011
Entrance test	: Sep. 20, 2011
Merit list declaration	: Sep. 22, 2011
Payment of fees	: Sep. 30, 2011
Commencement of course	: Oct. 03, 2011

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 drawn in favor of "Principal, Government Polytechnic" payable at Pune.

***For details, contact:***

***E-mail: [automotive.mechatronics@rediffmail.com](mailto:automotive.mechatronics@rediffmail.com)***

**Mr. B. Prasad - Coordinator, Mobile: 08983322167**  
**Mr. M. J. Deshpande - Faculty, Mobile: 09423238749**  
**Mr. V. S. Sonawane - Faculty, Mobile: 09423577845**  
**Mr. R. R. Godbole - Faculty, Mobile: 09822244204**

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
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2. Residential Address :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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



**GOVERNMENT POLYTECHNIC**

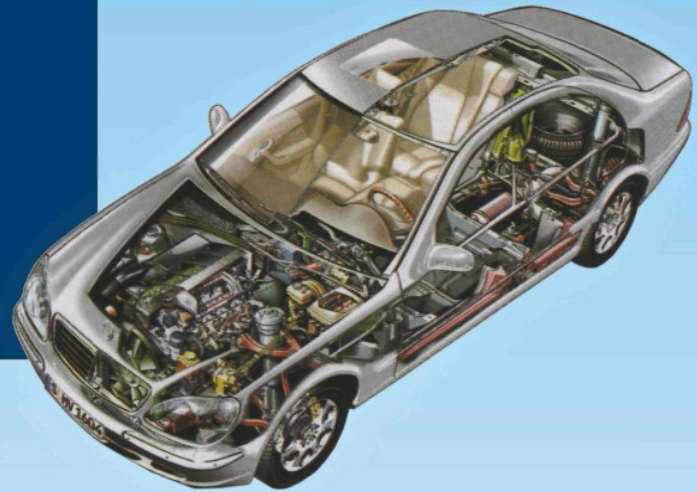


**Mercedes-Benz**

## **ADVANCED DIPLOMA IN AUTOMOTIVE MECHATRONICS**

**GOVERNMENT POLYTECHNIC, PUNE**  
(An Autonomous Institute Government of Maharashtra)

In Collaboration with  
**Mercedes-Benz India Private Limited**



### **Outlook:**

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 its objectives

### **Objectives:**

- To provide an adequate number of qualified Automotive Technicians to support the growing needs of Indian Automotive market
- To produce trained manpower competent to handle the fast changing technological advancements
- To develop accurate diagnosis approach by the trained manpower in order to fulfill customer expectations in after-sales of modern automobiles
- Trainers/coaches are trained by Mercedes-Benz India and have vast teaching experience
- Troubleshooting using modern diagnostic tool on Mercedes cars
- Soft skill sessions from professional faculties
- Separate Module on Electronics used in cars
- Placements in renowned companies & dealerships of Mercedes-Benz, Volks Wagon, Fiat, Bosch, Mahindra in India & abroad
- Course Duration is 1 year (4 modules)

### **Features:**

- The course content and methodology is derived in collaboration with Mercedes-Benz India to cater the needs of modern automobile technology
- Self-Reliant learning with emphasis on hands-on-practical training on most modern Mercedes cars and aggregates

### **The course is suitable for personnel in:**

- Diagnostic and testing
- After-Sales Service
- Research & Development
- Production & Quality Control
- Final Rectification & Testing
- Automotive Dealerships

**GOVERNMENT POLYTECHNIC**

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# ADVANCED DIPLOMA IN AUTOMOTIVE MECHATRONICS

## Government Polytechnic, Pune:

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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.

## Mercedes-Benz:

Mercedes-Benz a pioneer in the International 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.

The collaboration with the Government Polytechnic, Pune towards introduction of 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.

## Admission process:

Admission to the course is through Entrance Test only.

## Eligibility criteria:

AICTE approved Diploma/Degree in Mechanical Engineering/Automobile Engineering/Electronics Engineering/Instrumentation Engineering/ Electrical Engineering

## How to Apply?

Admission process starts in the month of June every year with newspaper advertisement. Application forms are available on website of Government Polytechnic, Pune. Candidates seeking admission can send downloaded and duly filled in application form any time round the year. The form should accompany a Demand Draft of Rs 500/- in the name of "Principal, Government Polytechnic Pune-16". All such applications will be scrutinized and eligible candidates will be called for the entrance test. Result of the entrance test and list of finally selected candidates will be displayed on website within 10 days after entrance test. For more details, please refer Government Polytechnic Pune's website.

## Certification Process:

After successful completion of the course, students will be awarded Certificate of "Advanced Diploma in Automotive Mechatronics" jointly certified by Government Polytechnic, Pune and Mercedes-Benz (India) Private Limited

## GOVERNMENT POLYTECHNIC

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