



Mercedes-Benz

Advanced Diploma in Automotive Mechatronics (ADAM) Course at Bhubanananda Orissa School of Engineering (BOSE), Cuttack

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



Brief introduction about the BOSE, Cuttack, Odisha, it's leadership and the course coordinator.

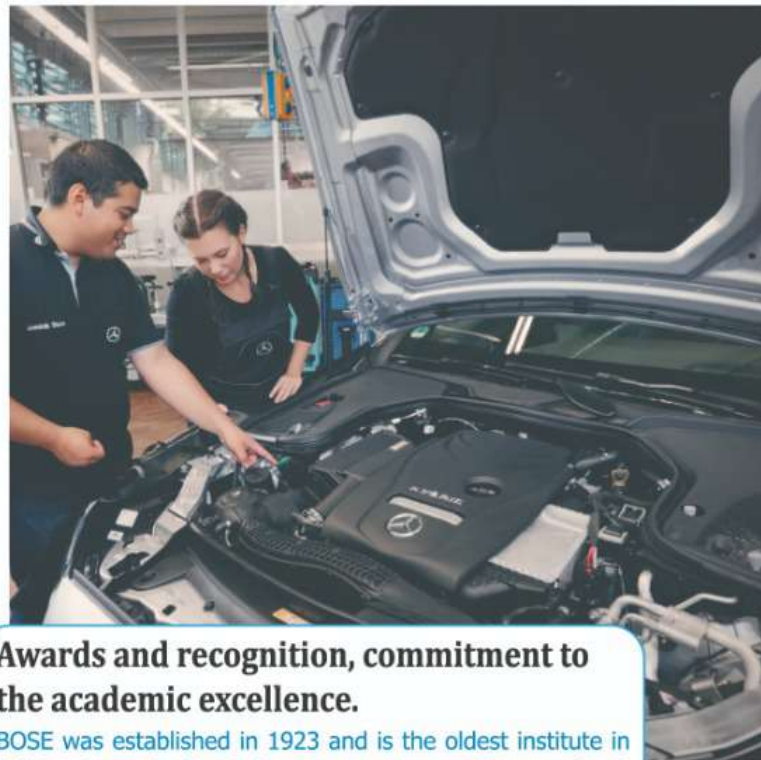
Bhubanananda Orissa School of Engineering (BOSE), Cuttack "100 Years of Engineering Excellence" Established in 1923, BOSE is the 1st and oldest institute of Odisha proudly celebrating a century of Technical Education. For 100 years, the institute has shaped skilled engineers who have contributed to landmark projects like Hirakud Dam and served industries across India and abroad.

BOSE offers a 3-year Diploma Program in Applied Electronics & Instrumentation, Automobile, Civil, Computer Science, Electrical, E&TC, IT, Mechanical, Mechatronics, Robotics & Automation. With NBA-accredited courses, modern laboratories, industry tie-ups & strong alumni network, BOSE continues to be a trusted hub for quality technical education, innovation and professional growth. Under the dynamic leadership of the Principal Dr.Subhanga Kishore Das and faculty continues to set benchmark in technical education and skill development.

The ADAM (Advanced Diploma in Automotive Mechatronics) course is coordinated by Sri Nilakantha Nayak who ensures smooth academic delivery, industry interaction and practical training for students.

Course overview

This Advanced Diploma in Automotive Mechatronics is a specialized vocational training program offered jointly by Mercedes-Benz Academy, India, and BOSE, Cuttack. 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 address the industry's demand for skilled professionals. Additionally, it emphasizes 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.

BOSE was established in 1923 and is the oldest institute in Odisha. Several of its diploma programs are NBA accredited. For the last two consecutive years, BOSE has been ranked No. 1 among polytechnic institutes in Odisha by the Quality Council of India (QCI).

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 car.
- Measure mechanical, electrical and electronic parameters for system and components used in car.
- Carry out PDI (Pre- Delivery Inspection) and maintenance of a car.
- Read and interpret the wiring diagrams of vehicle system.
- 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 25 from the interview will be admitted.

Degree or diploma marks are not considered.

Practical sessions during the course include:

- Hands-on experience working with modern cars and their components.
- Practical exercises involving dismantling and assembling major components like modern engines and gearboxes. These tasks take place in well-equipped electric and electronic labs and workshops.
- Engage in assembling and disassembling various components, gaining an understanding of their functions and performance. Get assessed on the overall performance of vehicle systems.
- Exercises are designed around real-time issues, focusing on diagnosing faults. For example, learners prepare a working vehicle system by installing faulty parts and then diagnose and correct the issue using efficient diagnostic strategies and available literature.
- Learn to use specialized and general tools and workshop equipment effectively.
- Utilize online documentation and workshop manuals (WIS) throughout the learning process.

ADMISSION INFORMATION

Eligibility:

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

Course duration: One year – full time.

Course fee- 60,000/-

Institute and Mercedes-Benz partnership

a. Highlight the strategic partnership the institute has with the brand.

Bhubanananda Orissa School of Engineering (BOSE), Cuttack has entered into a strategic partnership with Mercedes-Benz India Ltd to provide world-class technical training in automobile engineering. Through this collaboration, BOSE is equipped with state-of-the-art tools, training modules, and workshop practices directly aligned with global automotive standards.

This partnership enables students to:

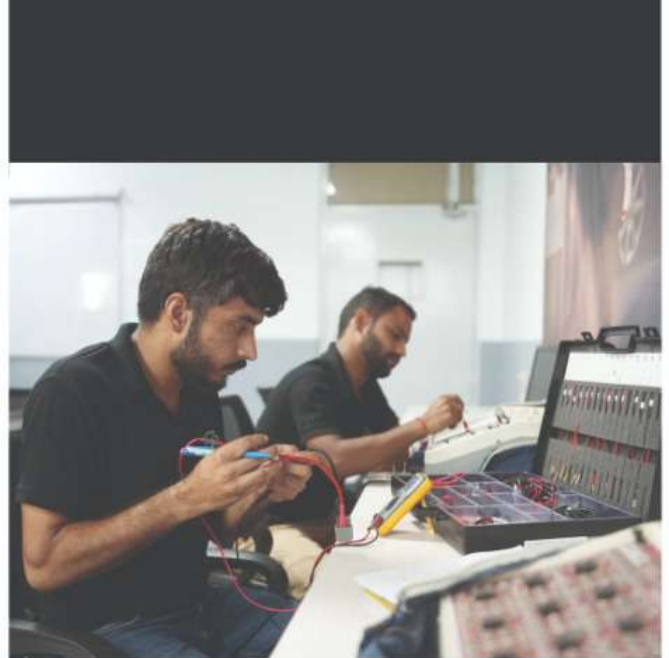
1. Gain hands-on training with modern automotive technologies used in luxury vehicles.
2. Access industry-oriented curriculum designed in consultation with Mercedes-Benz.
3. Enhance employment opportunities in premium automobile brands and service industries.

By linking classroom learning with real-world automotive practices, the BOSE-Mercedes-Benz collaboration ensures that students are job-ready professionals who meet both national and international industry demands.

b. Emphasize how this partnership helps enhance the educational experience and opportunities available to the students.

This collaboration greatly enhances the educational experience of BOSE (ADAM) students by:

1. Providing access to cutting-edge automotive technology and advanced workshop facilities.

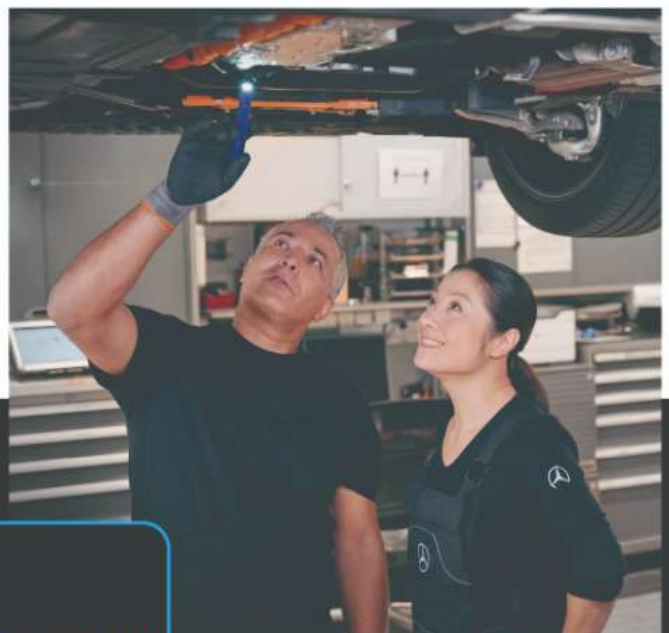


2. Offering practical training with industry-standard tools and diagnostic systems used by Mercedes-Benz worldwide.

3. Bridging the gap between academic learning and real-world applications through specialized training modules.

4. Giving students a competitive edge in placements with premium automobile brands due to real-time experience in servicing sophisticated vehicles.

5. Building global-level technical skills and professionalism, making BOSE graduates highly employable in the evolving automotive sector. ready professionals who meet both national and international industry demands.



For Further Details, Contact:

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