

JSPM's
Rajarshi Shahu College of Engineering, Pune
Department of Electronics & Telecommunication Engineering
Academic Year: 2023-24
Subject: EC4103B-Automotive Electronics
Sem-VII Class: Final Year B.Tech [Div B]

USE OF VARIOUS INSTRUCTIONAL METHODS AND PEDAGOGICAL INITIATIVES

NAME OF THE ACTIVITY: Industrial Visit to “YAN Autonation”

I. Concept:

An industrial visit is an educational activity that takes students outside the classroom to a real-world industrial setting. It bridges the gap between theoretical knowledge acquired in academia and its practical application in the industry. This experiential learning method exposes students to current technologies, processes, and professional practices, making complex engineering concepts tangible and relevant. It transforms abstract topics from the syllabus into concrete, observable systems, enhancing comprehension and retention.

II. Objective (Goal):

Practical Exposure, Bridge Theory-Practice Gap, Life-long Learning.

III. Appropriateness (Relevance of Selected Method):

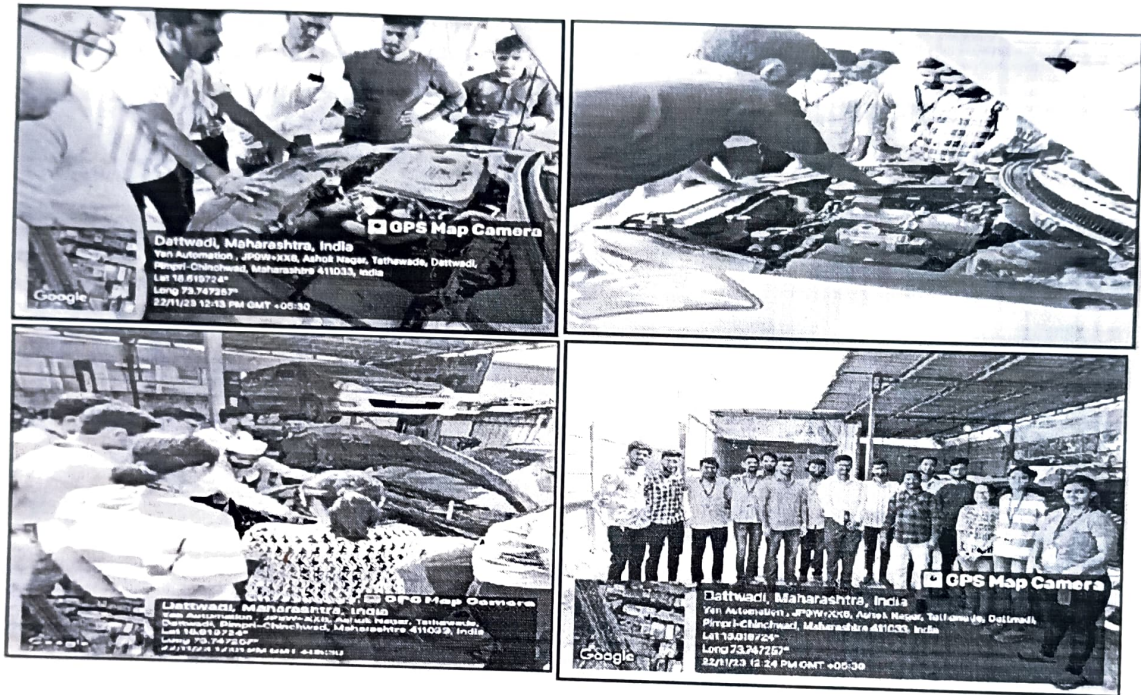
This method is highly appropriate for the Automotive Electronics subject as it allows students to visually and practically interact with core components like ECUs, sensors, actuators, and diagnostic systems, which are difficult to fully grasp through textbooks alone.

IV. Implementation:

This activity was conducted for the elective students of Final Year (Sem-VII) Electronics and Telecommunication Engineering for the Automotive Electronics subject. The visit was organized at Yan Automation, where experts Mr. Rohit Mane

and Mr. Sachin Surve conducted interactive sessions and hands-on demonstrations on Automotive Systems, including Electronics Circuits, Sensors, Actuators, Transmission Control, ABS, ESP, ECU, and On-Board-Diagnosis (OBD). One sample evidence of the activity is given below.

IMAGES (Evidence)



V. Results (Impact):

- 1) Provided practical insights into automotive electronic systems, bridging the theory-practice gap.
- 2) Enhanced understanding of complex systems like ECU, ABS, ESP, and OBD through direct observation.
- 3) Encouraged interactive learning and clarified career aspects in the automotive electronics industry.

VI. Reproducibility and Reusability by Other Scholars for Further Development

Sr.No	Innovation Used by	Details of User	Purpose of Reproducibility and Reusability
1	Students	LY-B Sem-VII (Elective)	To provide students with practical exposure to automotive systems.
2	Faculty	Anyone	Faculty members may use this model to organize visits for other batches or related subjects like Embedded Systems or IoT.

VII. PEER REVIEW AND CRITIQUE

Category: Internal

Score: (1:Least 2: Moderate 3:Highly)

Question 1. Is this Innovative Teaching and Learning Methodology useful during content delivery?

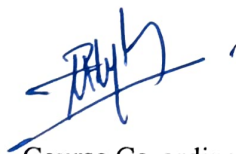
Question 2. Did this innovation increase student motivation or participation?

Question 3. Will it show improvement in student learning?

Question 4. Suggestions for improvement in future iterations.

Category	Name of Peer	Organization	Q.1	Q.2	Q.3	Q. 4 Suggestion/Critique
Internal	Mr. Vijay T. Barkade	JSPMs RSCOE	3	3	3	Consider incorporating pr visit assignment for maximum learning

Bestcase
(Mr. V.T. Barkade)



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