



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



**VINAYAKA MISSION'S
RESEARCH FOUNDATION**
Deemed to be University under section 3 of the UGC Act 1956



DEPARTMENT OF MECHANICAL ENGINEERING

ISR Activity Report

Name of the Activity:

Latest Troubleshooting Technologies Using Bosch State of the Art Equipment's

Date of Activity:

11-09-2023

Background of the Activity:

Avit has adopted 5 villages under the government's Unnat Bharat Abhiyan Scheme. In these 5 villages, we are consistently focused on providing essential resources and support to meet the needs of the community. During our discussions with the local residents of these villages, they expressed a strong desire for training sessions on handling advanced technology equipment and machines used for automobile troubleshooting. This training is intended to benefit mechanics from these villages, empowering them with valuable skills for automotive problem-solving. This skill development workshop is a response to the expressed needs and aspirations of the community.

Activity Carried out by:

Dr M Prabhakar, Head Department of Mechanical Engineering
Dr S Sangeetha, Professor, Department of Mechanical Engineering
Dr M Saravanakumar, Asst Prof (Gr-II), Department of Mechanical Engineering
Mr A Imthiyas, Asst Prof (Gr-II), Department of Mechanical Engineering

Target population:

Arunkundram, Kothimangalam, Alathur, Naduvakkarai & Sirudavoor Village Automobile mechanics

Total:

3 members in each village in a consolidation of 15 Members

Brief Details of Activity:

The **Department of Mechanical Engineering and the ISR cell** of AVIT, in association with the **Rotary Club of Madras**, organized a one-day skill development workshop on **the Latest Troubleshooting Technologies Using Bosch State-of-the-Art Equipment** for individuals who have chosen the profession of automobile mechanics in the 5 villages adopted under the UBA program. This workshop was initiated in response to a request from the villagers and further discussions were held to plan its implementation. Subsequently, the Rotary Club generously agreed to sponsor tool kits and T-shirts for the participants, which would greatly assist them in their troubleshooting work after successfully completing the training workshop.

The workshop commenced with a **welcome address by Dr. M Prabhakar**, the Head of the Department of Mechanical Engineering. He welcomed the gathering and briefed about the Latest Technologies available in the BOSCH Research Centre and various laboratories available in the Department, followed by a **presidential address from Dr. S P Sangeetha**, Vice Principal, Academics Cum Program Director for ISR activities at AVIT. During her address, she highlighted the significance of this training session and the opportunities it would open up for the participants after completion. She also distributed T-shirts and tool kits to all the participants.

Following this, **Dr. M Saravanakumar** and **Mr. A Imthiyas** began delivering theoretical concepts and practical sessions using Bosch's advanced automobile troubleshooting machines, including the Bosch On-board Diagnostic tool (OBD), Battery health monitoring Machine, Automotive A/C fault finding and troubleshooting machine, Starter motor Troubleshooting Machine, and Electric Vehicle function kit.

The workshop concluded with a vote of thanks proposed by **Dr. S Sangeetha**, professor from the Department of Mechanical Engineering at AVIT. During the session, **Dr. Anuradha Ganesan**, the Respected Director of VMRF, and **Dr. G Selvakumar**, the Principal of AVIT, visited the venue and interacted with the participants to gather feedback and discuss any further requirements related to the workshop.

Learning:

It is understood through this activity that a significant portion of the rural population is not well aware of the importance of skill development programs.

Suggested Actions Based on Learning from the activity:

More efforts should be made to raise awareness among the rural population about the significance of skill development programs. These programs can be highly beneficial for individuals to empower themselves and improve their societal status. Additionally, a greater number of diverse skill development programs should be identified and organized in these villages to contribute to their overall upliftment.







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