



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S
RESEARCH FOUNDATION
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DEPARTMENT OF MECHANICAL ENGINEERING & SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

Report on Skill Development Program on Automotive Testing-27.10.2021

The Department of Mechanical Engineering AVIT organized a Skill Development Program on **Automotive Testing** for the Polytechnic Students from nearby villages on 27.10.2021. The course started with the Welcome address by Prof L.Prabhu, Head of the Department of Mechanical Engineering. He welcomed the gathering and also briefed the students about the various IIC activities and competitions being conducted in the college. The Presidential address was given by Dr.G.Selvakumar, Principal/AVIT. He explored the students with various funding opportunities provided by the government and how the institution will help them for achieving it. Dr.M.Saravanakumar and Prof.N.Shivakumar acted as resource persons for the Skill development activity.



Once the inauguration was over the theory session on different Automotive Testing equipment's was handled by Prof.N.Shivakumar. Later the live demo about the different Testing Equipment's was explained by Dr.M.SaravanaKumar. Around 30 polytechnic students participated in the event.

The topics covered during the sessions include:

1. Control parameters of Petrol and Diesel Engines - Ignition Timing, Fuel Injection Timing and Fuel Injection Pressure,
2. Engine Control Sensors and Actuators,
3. Rail fuel pressure control using Rail Pressure Sensor,
4. Catalytic converters and Conversion efficiency,
5. Exhaust emissions formation and it's control through electronic control system,
6. Testing of Alternator and Stator Motor (both 12v and 24v) using Bosch Auto Electrical Test Bench,
7. Testing (condition & Load testing) and Charging of Battery,
8. Automotive A/C Service (Drain, Filling & Top-up of Refrigerating fluid/gas - Manual/Automatic Mode, leakage Testing)



The Valedictory session started around 3 pm and few of the students gave feedback about the session. The certificates were distributed to the students by Prof.L.Prabhu and he also enquired the students about the topic in which various other Skill Development Activities are needed for them be conducted in the coming months. Finally the Vote of thanks was given Dr.S.Sangeetha , Coordinator of the event with a thanks note to all those who were involved in making the event a successful one.

