



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



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



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## DEPARTMENT OF MECHANICAL ENGINEERING

### SAEINDIA

## Report – Seminar on “AUTOMOTIVE ENGINE MANAGEMENT SYSTEM”

21<sup>st</sup> FEB 2020

**Resource Person :** Mr. Aswin Kugan,  
Powertrain Validation Engineer,  
Fiat Chrysler Automobiles, Chennai.

**Participants :** 60 Members

The Department of Mechanical Engineering in association with **SAEINDIA** organised a seminar on the topic “**AUTOMOTIVE ENGINE MANAGEMENT SYSTEM**” on 21<sup>ST</sup> FEB 2020.

### The topics covered in seminar are:

1. Modules in Powertrain control functions
  - Engine management system ( powertrain sensors and module)
  - Chassis control functions
  - Body control functions
  - Vehicle location function
2. Classification of powertrain sensors
3. Temperature sensors
4. Power sensors
5. Speed and position sensor
6. Crankshaft and cam sensor
7. Throttle position and knock sensor
8. O<sub>2</sub>, NO<sub>x</sub> and PM sensor &
9. Sensor error diagnosis, sensor power supply and location of each sensor

### Seminar Outcomes:

- Students gained knowledge about different modules and their functions in modern automobiles
- Students gained knowledge about the functions of various types of sensors, and applications of each sensor used in the different modules.
- Students learned about the possible error messages from the sensor and decode the causes of the error &
- Students acquired the new trends in automobile sectors and importance of interdisciplinary courses.

### Students suggestions

- Seminar is useful to update the application oriented knowledge in automobiles, so many seminars like this can be conducted.

This seminar was coordinated by Mr.A.Elanthiraiyan, Assistant Professor (Gr-II) and Prof. L.Prabhu HOD, Department of Mechanical Engineering, AVIT.



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