







#### **DEPARTMENT OF MECHANICAL ENGINEERING**

### **ENFUSE**

# Report – Webinar on "Homogeneous Charge Compression Ignition Engine - A Review"

## 3rd NOV 2020

**Resource Person : Dr.S.NATARAJAN Participants :** 50 Members

Assistant Professor,

Department Consultancy, Ignition & ,SVCE-WTI Test Rig

Coordinator, Department of Mechanical Engineering,

Sri Venkateswara College of Engineering, Irungattukottai Post,

Sriperumbudur-602117.

The Department of Mechanical Engineering in association with **ENFUSE and IIC** organised a Webinar on the topic "Homogeneous Charge Compression Ignition Engine - A Review" on 3rd NOV 2020

## The topics covered in seminar are:

- 1. Homogeneous Charge Compression Ignition Engine overview
- 2. Advantages of HCCI engine over CI and SI Engine
- 3. Effect of usage of alternate fuel in HCCI engines
- 4. Preheating techniques of alternate fuels
- 5. emissions, power, torque, peak pressure and heat release rate, fuel mixture
- 6. Temperature and compression ratio
- 7. Optimization techniques
- 8. Advantages and disadvantages of HCCI engine

#### **Seminar Outcomes:**

- Students gained knowledge about on going research in alternate fuel and HCCI engine
- Students gained knowledge about the principles of operation of HCCI engine
- Students learned about the opportunities in the field of and alternate fuels & IC engines
- Students acquired the new trends in automobile sectors and importance of interdisciplinary courses.

## **Students suggestions**

 Webinar is useful to update the application oriented knowledge in automobiles and the emerging areas of the research in search of engine which will run without polluting the environment.

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











