Report

Name of Event: COMPUTATIONAL APPROACH TO FLUID POWER ENGINEERING

Date of Conduct: 21ᵗʰ September, 2017.

Time Duration: 10:00 AM to 2:00 PM

Day: Thursday

Faculty Coordinator: Prof. ElaJha & Prof. SukritindraSoni

Venue: Seminar hall

Speaker: Mr. JaydeepTrivedi

Number of Participants: 70

Department ofMechanicalEngineering of G H Patel College of Engineering & Technology, VallabhVidyanagar (A CharutarVidhyaMandal Institution) had organized COMPUTATIONAL APPROACH TO FLUID POWER ENGINEERING under GCET ISTE student chapter on 21ᵗʰSeptember, 2017.

As global industrial tend to demonstrate a growing for innovative designing, engineering and manufacturing process, it is becoming imperative to understand thermal and fluid dynamics of innovation and seamless solution to core problem areas.

The expert who has visited college was **Mr. JaydeepTrivedi** who has experienced person in **CFD** training and services. He has served as senior manager, R & D department at Jyoti Ltd., Baroda.

The session was held in Seminar Hall, GCET. Around 70 Students including faculty members had participated in this Workshop. The workshop proved to be effectual enough for the 3ʳᵈyear mechanical engineering students.

First session, started with introduction to CFD, various software used to do CFD analysis and its application in modern world. **Mr. JaydeepTrivedi** basically covered the general usage of CFD, where he showed the presentations of different models of automobile and aerodynamic shapes, flow patterns and boundary layer formation, turbulence region over and around the moving body. Simulation work correspond to temperature and velocity control inside malls, modern buildings as part of heat transfer applications of CFD

In second sessionthe nodes and elemental analysis used to design different parts of test bodies, after that he showed the design of four jet Pelton Turbine, and checking the region which require high maintenance, and hence students got know about design of Kaplan turbine and pressure & fluid flow phenomenon on softwarebefore actual designs of turbine.

At-last there was a small query session and the workshop was ended by a thankyou speech delivered by Pro. SukritindraSoni and **Mr. JaydeepTrivedi**was given a small memento as a token of gratitude for his work.