

Faculty of Engineering & Technology

"Scope and Applications of Computational Fluid Dynamics"

Type of event: Expert Talk

Date: 19/06/2021

Time: 11:00 A.M.-12:00 P.M.

Venue: Google Meet, Online mode

<u>Organizer:</u> Department of Mechanical Engineering, FEAT-SGT University.

<u>Objective</u>: The main objective of the webinar "Scope and Applications of Computational Fluid Dynamics" is to promote research-oriented projects in this field.

<u>About the Speaker/Guest:</u> Dr. Rohan R. Pande, Assistant Professor, Department of Mechanical Engineering, NIT-Surat, Gujrat., having 7+ Years of teaching and research experience. He has a great research profile in this field and a number of research papers in SCI Journals.

Audience: 41 students and faculty members from FEAT-SGT University.

- 1. ADITYA JAIN
- 2. SAKSHI KADIAN
- 3. BHAVIK DHAMIJA
- 4. ALOK KESHRI

- 5. HARSH KASHYAP
- 6. SAKSHI MITTAL
- 7. ANKIT PARASHAR
- 8. SEENU NIGANIA
- 9. SANYAM SEHRAWAT
- 10.AKANSHA
- 11.MANMEET
- 12.ABHISHEK
- 13.ANKIT JOSHI
- 14.DHEERAJ SHARMA
- **15.MOHIT KUMAR**
- 16.DEEPANSHU
- 17.AKSHAY DAHIYA
- **18.ARYAN DAGAR**
- 19.SRISHTI CHOUDHARY
- 20.ANKIT CHHIKARA
- 21.DEEPANSHU
- 22.VISHAL GULERIA
- 23.ANSHDEEP SINGH
- 24.ANKUSH DAHIYA
- 25.SUNIDHI BADWAL
- **26.NITIN KUMAR**
- 27.DIPESH
- 28.VICKY KUMAR
- 29.ABDUL REHMAN
- 30.CHIRAG
- 31.RAHUL SHARAN
- 32.SANUWAR MALIK
- 33.ARJUN TOMAR
- 34.ROHIT
- 35.YUGAL KAUSHIK
- 36.LOKESH
- 37.DEEPANSHU KAUSHIK
- 38.PRIKSHIT
- 39.ASHISH PATHAK

40.ROHAN 41.PAWAN



Brief Report:

At SGT University, Faculty of Engineering and Technology, we organized a webinar on "Scope and Applications of Computational Fluid Dynamics". An expert talk was delivered on the importance, scope and applications of Computational Fluid Dynamics in the different sectors and various disciplines by Dr. Rohan R. Pande (Assistant Professor, Department of Mechanical Engineering, NIT-Surat, Gujrat) on 19th June 2021.

In the lecture the following points were discussed:

- History of Computational Fluid Dynamics
- Scope and applications of CFD in different sectors.
- CFD in Automotive Engineering
- CFD in Biomedical Engineering.
- CFD in Civil Structures and Energy Sectors.
- Electronics and Telecommunication cooling system design.
- Heating/Ventilation and Airconditioning system design.
- Applications in IC Engines, process plants and in sports also.
- How CFD works and software requirements.

Besides this, a number of CFD based projects have been discussed that can be useful for the B. Tech as well as M. Tech students in their project and research work. This technique and the project can also be utilized by the faculty members in their research work.



Learning Outcome: It was very informative session on Scope and Applications of Computational Fluid Dynamics. After attending this webinar, we understand the application of CFD in various sectors. Its importance and significance as a problem-solving modeling method.

Besides this, we have also learnt that how the CFD actually works with help a few examples. The software requirements and the configuration requirement of computer to operate with ANSYS Software.

Shortcomings: (i) Less Audience

Webinar on

"Scope and Applications of Computational Fluid Dynamics"
DATE 19/06/2021

Attendance Data

Timings: 11:00 A.M. - 12:00 P.M.

