

AMITY INSTITUTE OF AEROSPACE ENGINEERING

Guest Lecture Report

A lecture session was organized on 20th October 2020. The details of the session are given below: -

Topics: “Fundamentals of combustion”

Date: 20th October 2020

Place: Online Mode (Zoom)

Time: 4:00 am – 5:00 pm.

Speaker: Prof. (Dr.) Sudarshan Kumar

About the Speaker: Prof. (Dr.) Sudarshan Kumar currently works as a Head of the department at the Department of Aerospace Engineering, Indian Institute of Technology Bombay. He is an Alumni of IISc Bangalore and received many awards and recognitions as a researcher and faculty at IIT Bombay. He has published many research papers in peer reviewed national & International journals.

Major points covered during the talk: He started his discussion from the very fundamentals of combustion like equivalence ration, stoichiometric ratio, flame temperature etc and went up to the modeling of the combustion.

Broad areas of his discussions are: -

- Chemical reactions
- Diffusion flame
- Combustion modeling
- Modeling of lifted jet diffusion flames
- Strategies and guidelines for combustion modeling

Students of following batch attended the lecture: Total 76 Students.

1. B. Tech
 - 2017-21 Batch
 - 2018-22 Batch
 - 2019-23 Batch
 - 2020-24 Batch

2. B. Tech+M.Tech
 - 2017-22 Batch
 - 2020-25 Batch

3. M.Tech
2020-22 Batch

Following faculty member also attended the lecture:

1. Prof. J. K. Jain (Moderator)
2. Mr. Saquib Reza (Moderator)
3. Dr. Basant Agarwal
4. Dr. Sharbari Banerjee
5. Mr. Jayanta Sinha
6. Ms. Soni Gupta

Event Objectives:

- To explore the fundamental knowledge of the combustion
- To introduce the students with the challenges in the field of combustion.

Expected Outcomes:

- Senior students of B. Tech 3rd, 4th year and M. Tech would get new topic for their research and major projects
- 1st and 2nd year students get introduction of fundamental knowledge about the combustion.
- A knowledge pool will be created in the field of combustion.

Some pics Of Guest Lecture





