

AMITY INSTITUTE OF AEROSPACE ENGINEERING

Guest Lecture Report

A course specific guest lecture session was organized on 28th October 2020. The details of the session are given below: -

Topics: “**Design aspects of combustion chambers in modern gas turbines**”

Date: 28th October 2020

Place: Online Mode (M S Team)

Time: 4:00 am – 5:00 pm.

Speaker: Mr. Vamsikrishna Undavalli

About the Speaker: Mr. Vamsikrishna Undavalli, a Grad Student of Moscow Aviation institute, Russia is an Alumni of amity institute of aerospace engineering.

Major points covered during the talk: He started his discussion with design trends of modern aero engines and LTO cycle and briefly discussed about emissions as well as all the major parts of combustion chamber design aspect.

Broad areas of his discussions are: -

- LTO cycle
- NOx emissions and its characteristics reaction.
- Comparison of pollutant with health effect.
- Temperature range of low emissions
- LECT path
- Conventional chamber
- Swirler
- Injector
- SQL combustion chamber

Students of following batch attended the lecture: Total 47 Students.

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

2. B. Tech+M.Tech
 - 2020-25 Batch
 - 2016-21 Batch

3. M.Tech
2019-21 Batch
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. Ms. Soni Gupta

Event Objectives:

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

Expected Outcomes:

- Senior students of B. Tech 3rd and M. Tech 2nd year, it was course specific information of Propulsion II as well as this would get new topic for their research and major projects
- 1st and 2nd year students get introduction of fundamental knowledge about the combustion chamber.
- A knowledge pool will be created in the field of design of combustion chamber.

Some pics Of Guest Lecture





