

Report on **One Week Faculty Development Programme on “Advance Technologies in Gas Turbine Engine”**,

Jointly sponsored by **Gujarat Technological University (GTU)** and the **All India Council for Technical Education (AICTE)**

**09.12.2019 to 13.12.2019**

Silver Oak Group of Institutes consists of two engineering colleges namely, Silver Oak College of Engineering & Technology established in year 2009 & Aditya Silver Oak Institute of Technology established in the year 2014, located at Ahmedabad. It is certified by ISO 9001-2008, approved by AICTE and affiliated to Gujarat Technological University. The Silver Oak group of Institutes is known for its “Out of Box” initiatives and emphasis of “Education to Innovation”. The Institute paves the way for a brilliant career and nurture Engineers, who can stand persistent in global market. Today it is one of the most sought-after institutes for pursuing an education in engineering across the state of Gujarat.

We had organized **One Week Faculty Development Programme on “Advance Technologies in Gas Turbine Engine”**, jointly sponsored by **Gujarat Technological University (GTU)** and the **All India Council for Technical Education (AICTE)**, which was held from **09.12.2019 to 13.12.2019** at Silver Oak College of Engineering & Technology, Ahmedabad, Gujarat.

## OBJECTIVES

This Faculty Development Program (FDP) aimed to enhance knowledge of participants in the area of Gas Turbine to promote their research and academic activities. To familiarize the participants with the latest techniques and advanced concepts in Gas turbine Engine, Experts from IITs, GE Global Research and other reputed Institutions had called to deliver the sessions.

## DETAILS ABOUT THE SESSIONS

Date	FN session	AN session
09 Dec 2019	<b>Shri. Hiteshkumar Rameshchandra Mistry</b> Fundamentals of Gas Turbine Engine	<b>Shri. Sanjeev K Jha</b> Design of Gas Turbine
10 Dec 2019	<b>Prof. Raghavan Rajendran</b> Overview of Gas Turbine Engine and its applications	<b>Prof. Raghavan Rajendran</b> Experimental Aerodynamic studies in a Centrifugal Compressor stage
11 Dec 2019	<b>Prof. Sudipto Mukhopadhyay</b> Injection Systems and Mixture Formation	<b>Prof. Sudipto Mukhopadhyay</b> Modeling of combustion and emissions in gas turbines
12 Dec 2019	<b>Prof. Debi Prasad Mishra</b> Basics of Gas Turbine Combustor	<b>Prof. Debi Prasad Mishra</b> Emerging concepts for gas turbine power plants
13 Dec 2019	<b>Prof. Syed Alay Hashim</b> High Performance Airbreathing Jet engines	<b>Prof. Syed Alay Hashim</b> Application of Boron-based fuels in high performance Propulsion devices

## Details of Experts



### **Dr. D.P. Mishra**

Professor  
Department of Aerospace Engineering  
Indian Institute of Technology Kanpur



### **Dr. R. Rajendran**

Professor  
Department of Aeronautical Engineering  
Dayananda Sagar College of Engineering  
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### **Shri. Sanjeev Jha**

Technology Manager  
Mechanics & Design  
GE Research  
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### **Shri. Hiteshkumar Mistry**

Head  
Product Management & Commercial Proposals  
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### **Dr. S.A. Hashim**

Associate Professor  
Department of Aerospace Engineering  
Sandip University  
Nashik



### **Dr. Sudipto Mukhopadhyay**

Assistant Professor  
Department of Mechanical Engineering  
Indian Institute of Technology Jodhpur

# DAY 1







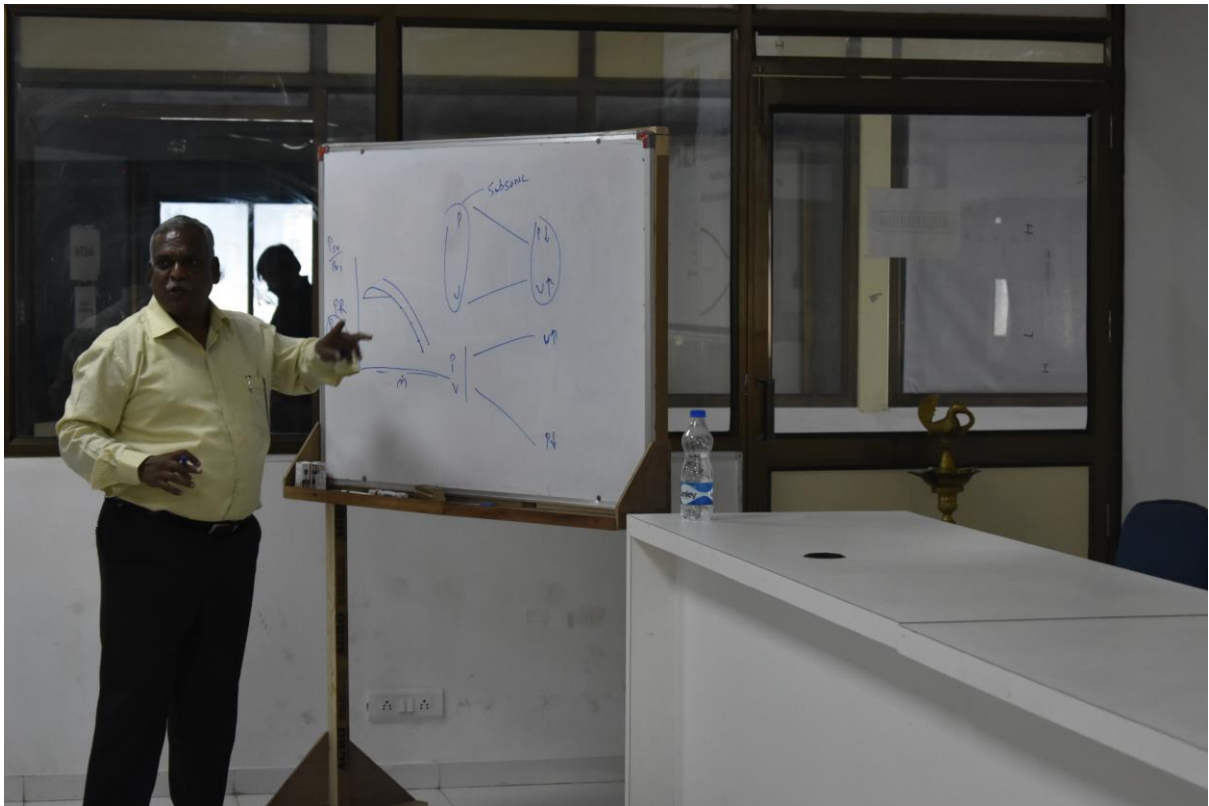






## DAY 2









### DAY 3







## DAY 4







## DAY 5







## List of Participants

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