

DEPARTMENT OF MECHANICAL ENGINEERING

One Day Seminar on

“ADVANCEMENTS IN DESIGN AND DEVELOPMENT OF GAS TURBINES”

Aerospace industry is one of the key industries in the modern world from transportation to defense. Gas turbines are used as a source of power to fly and fulfill our dream of flying in the air joyously and safely.

Department of Mechanical Engineering, Sree Vidyanikethan Engineering College organized a one day seminar on 'Advancements in Design and Development of Gas Turbines' on 15th December, 2018 to enlighten and inspire its members of faculty and students. The prime aim of the programme was to explore the concepts of gas turbines, the role of Physics in their operating principle, significance of gas turbine in aerospace industry, different types of gas turbines used in aerospace industry, basic principles of design, challenges, applications, and finally to help the students to choose their career accordingly. The programme was inaugurated in the seminar hall of Mechanical Engineering by eminent faculty of the department.



***Dr. T. Hariprasad, Professor,
Department of Mechanical Engineering delivering welcome address***

Mr. Gopinath Chakkaravarthy, Principal Engineer, Rolls Royce India Pvt. Ltd, Bengaluru was the resource person. He obtained a post graduation in Mechanical Engineering and gained 13 years of experience in product development, team and project management. Further, he has experience in Research & Development, System Engineering, Life Cycle Management of Industrial Gas Turbines, Flight Testing of Helicopters, and Development of Aero Engines.



Felicitation to Mr. Gopinath Chakkaravarthy, Principal Engineer, Rolls Royce India Pvt. Ltd, Bengaluru by the students and the members of faculty.

In the first session, Mr. Gopinath Chakkaravarthy spoke about 'Fundamentals in Design and Development of Gas Turbines' in which he explained the concepts on history of aero engines, how an aircraft flies, types of engines, basics, principles, and importance of gas turbines. Further, he explained the need for different types of engines and basic design parameters considered in the field of aero engines. Finally, he concluded the session exploring the applications of gas turbines and future of aerospace industries.



Mr. Gopinath Chakkaravarthy, Principal Engineer, Rolls Royce India Pvt. Ltd, Bengaluru delivering the lecture

In the second session, Mr. Gopinath Chakkaravarthy discussed the recent trends in design and development of gas turbines and especially focused on challenges and opportunities in the field of gas turbines. He motivated the students to appear for the various competitive

exams. Further, he advised the students to choose master degree course in the challenging area and pursue it in reputed institutions or universities.



Mr. Gopinath Chakkaravarthy, Principal Engineer, Rolls Royce India Pvt. Ltd, Bengaluru clarifying the doubts

In the last session, he pointed out the loopholes in the current engineering students' learning culture and suggested how to cultivate the best practices to succeed in this competitive world. Further, he spoke about the importance of participating in curricular and extra-curricular activities. In conclusion, he highlighted the job opportunities in the current scenario. Later, he advised the students to choose their career wisely and lead their lives happily. Post session, the students were given an opportunity to interact with the resource person Mr. Gopinath Chakkaravarthy. The programme was a memorable one in gaining knowledge about 'Gas Turbines and Aero Engines.'



Mr. Gopinath Chakkaravarthy, Principal Engineer, Rolls Royce India Pvt. Ltd, Bengaluru interacting with the students

Finally, in the valedictory session the programme conveners Dr. N. Manikandan and Dr. J. S. Binoj thanked the resource person Mr. Gopinath Chakkaravarthy for accepting the invitation, and sharing his expertise in the field of gas turbines with the students and members of faculty. The conveners thanked the Management, the Principal, and the Director for their constant support in organizing the programme. The conveners expressed their special thanks to Dr. K. C. Varaprasad, Professor & Head, Department of Mechanical Engineering, the members of faculty, and the student participants for the support and kind cooperation in making the program a grand success.