

## About the Programme

### **Aerospace Engineering**

The careers in the modern Aviation industry world over have become highly challenging and rewarding. Hence, it has become essential to provide a very strong technical background in the specialized areas of Aerospace Engineering. Towards this end, the Jain University has decided to offer four M.Tech programmes in Aerospace Engineering. These programmes will cover both civil and military aviation. The programme is designed to encompass the current and emerging trends in the field of Aerospace industry. At the end of the programmes, the students will come out with excellent theoretical and practical knowledge of Aeroplanes and systems. As a specialty of these programmes, long time involvement of the faculty members with Aerospace Industry and Research has made it possible to include practical aspects supported by theory rarely found in text books. The students will also be prepared to take up further research work and contribute in the areas of specialization.

### **Computer Science and Engineering**

The M.Tech Programme in Computer Science and Engineering has been designed in such way as to provide the students with a strong foundation in various subjects of Computer Science and Engineering. The basic aim of the programme is to impart advanced knowledge on these subjects.

Wide Spectrum of elective subjects from the point of view of Industries has been provided which will give lots of flexibility to the students to select the subjects of their choice. Each subject is associated with assignments with the intention of enabling students to have hands-on experience.

### **Electronics & Communication Engineering**

The M.Tech programme offered by Jain University is designed with core and specialized subjects needed by the academia and industries. It is a combination of VLSI and DSP. The focus of the programme is to build adequate knowledge-base with the support of intensive training in VLSI, Signal Processing and Embedded Systems. This approach will encourage the students to acquire excellent theoretical and practical knowledge to cater to the demands of Industry and R&D Labs.

## Mechanical Engineering

The department of mechanical engineering offers M.Tech degree course in Mechanical Engineering which is broad based covering all major areas of Thermal Engineering. The unique structure of the programme balances a healthy combination of theory in terms of core subjects currently in demand, practical exercises from live practical situations and, most importantly, Industrial Internship. The students have a wide spectrum to choose the electives from depending on their interests and career goal. The subjects and topics have been chosen carefully to fully cater not only to the industries but also to further research. The topics are drawn from different industry sectors and current academics for a good balance.

### What will you study?

You will gain a broad understanding of the practical requirements of engineering, as well as knowledge of the subjects that are both specific and complementary to engineering applications. You will learn about management issues and improve your evaluation and project management skills. The M.Tech features an Industrial Project Review and Analysis module, which is normally taken in industry and provides you with the challenge of undertaking a real-world problem in an engineering environment. You will also develop an awareness of work in a multidisciplinary team within an engineering organization with real industrial constraints.

### Programme Modules

The M.Tech Programme consists of the following:

- Compulsory programmes
- Electives (Departmental and Inter-Departmental)
- Special Programmes: Industrial Training, Workshops & Seminars
- Project (3<sup>rd</sup> and 4<sup>th</sup> Semesters)

### Assessment

Written Examination, Assignments, Industrial Projects & Practicals