

## **M.Tech (Advanced Manufacturing Systems)**

M.Tech in Advanced Manufacturing Systems is a widely sought program with an objective of producing manufacturing engineers who can use modern tools and techniques to design and develop a product or manufacturing system with due consideration for economical, safety, environmental and societal concerns. The programme focuses on specific requirements of manufacturing industry such as automation and robotics, modelling and simulation of manufacturing systems, quality assurance, design of hydraulic and pneumatic systems, advances in CAD/CAM and additive manufacturing processes.

### **PROGRAM HIGHLIGHTS:**

A graduate of this program will be able to

- Assimilate advancements in manufacturing technologies and apply engineering judgement to solve problems in manufacturing industry
- Use latest modelling, analysis, simulation and data analytics tools for engineering practice
- Carry out independent research or investigation and development work to solve practical problems in manufacturing domain.

### **CAREER OPPORTUNITIES:**

The programme is suitable to produce Manufacturing Engineers who can design, develop and improve manufacturing processes, programming and operating CNC machines, quality control, providing automation solutions, investigating production problems, diagnosing faults and manufacturing process optimization.

## **Career Pathway:**

- Aviation and Aerospace Industries - ISRO, HAL, ECIL, Boeing, BEL etc
- Defence and shipping Industries - Bharat Dynamics Limited, DRDO, Bharat Earth Movers, Goa Shipyard, Mazagon Dock Limited, Cochin Shipyard Limited, Bharat Electronics Limited, HAL, Ordnance Factory Board etc.
- Automobile Industries - Tata Motors, Ashok Leyland, Mahindra & Mahindra, Bajaj Auto, Maruti Suzuki, Toyota, Yamaha, Hyundai, Hero Moto Corp, Volkswagen, Audi and Renault, Kia Motors.
- Plastics & Pharmaceutical and Mining Industries
- Construction and allied industries
- Oil and gas industries
- Automation Industries - Siemens, Honeywell Automation India Ltd., Rockwell Automation, Titan Automation Solutions, Caddilac Automation & Controls, Godrej Efacec, Hexagon
- IT Services
- Research and development
- Academics