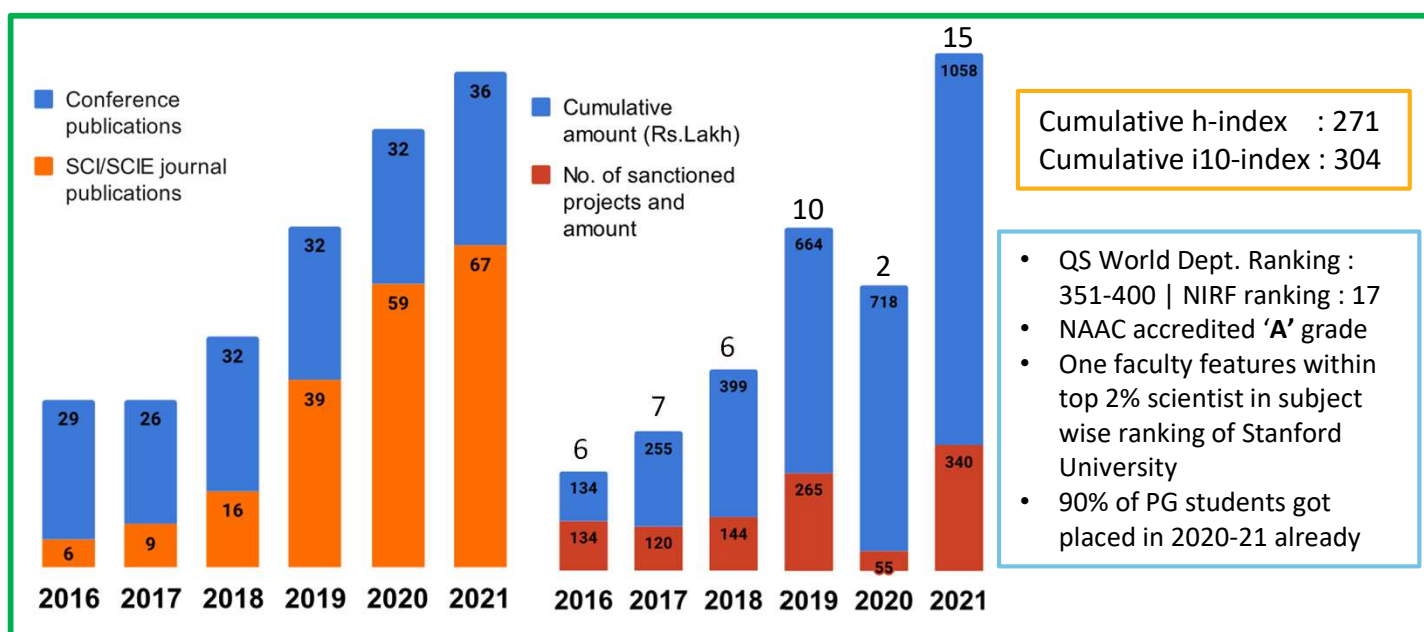
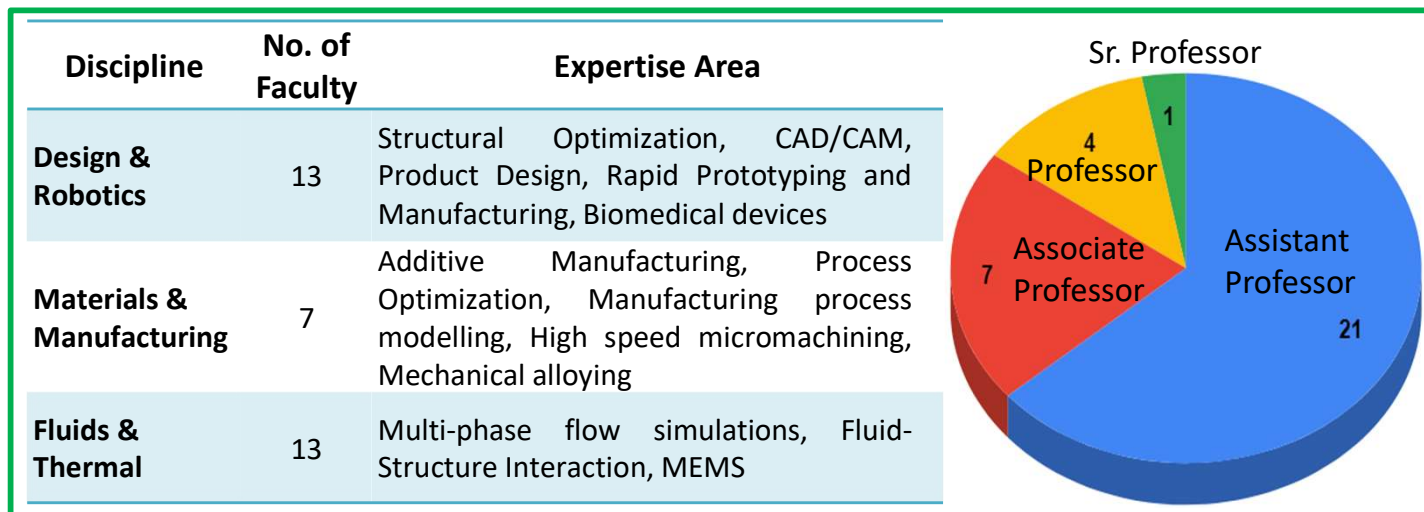




Mechanical Engineering Department, BITS Pilani, Hyderabad Campus

Welcomes application for Higher Degree Programs in Mechanical Engineering. The Department of Mechanical Engineering offers Master of Engineering (ME) courses in three categories: Mechanical Engineering, Design Engineering and Manufacturing & Systems Engineering.



Thrust areas of research

- Micro-machining | Forming | Additive Manufacturing | Welding | Casting
- High-temp. Materials | Nano Materials | Composites | Hybrid Battery
- Refrigeration | CFD | Renewable Energy | IC
- Vibration & Control | Product Design | CAD/CAM | Condition Monitoring | Vibrations
- Micro electromechanical systems | Robotics & AI

Departmental Laboratories

- Dynamics & Vibration Lab
- Heat Transfer Lab
- Hydraulics Machine Lab
- IC Engines Lab
- Materials Testing Lab
- Product Design and Realization Lab
- Refrigeration, Air-conditioning and Energy (RACE) Lab
- Robotics, Automation and Mechatronics Lab
- Tribology Lab



Course Structure

Core Courses

- Material Testing and Technology
- Mechanism and Robotics
- Finite Element Methods
- Computer Aided Analysis and Design
- Product Design
- Dynamics and Vibration

ME Design Engineering

Elective Courses

- Design Projects
- Computational Fluid Dynamics
- Advanced Engineering Mathematics
- Nondestructive Testing Techniques
- Machined Tool Engineering
- Theory of Elasticity and Plasticity
- Tribology
- Fracture Mechanics
- Microfluidics and its Applications
- Advances Composites

Placement CTC



Core Courses

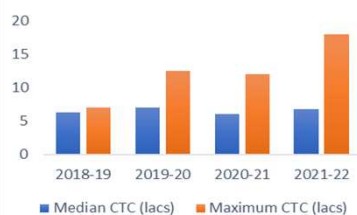
- Quality Control Assurance and Reliability
- Mechanism and Robotics
- Finite Element Methods
- Computer Aided Analysis and Design
- Machine Tool Engineering
- Theory of Elasticity and plasticity

ME Mechanical Engineering

Elective Courses

- Design Projects
- Product Design
- Precision Engineering
- Wind Energy
- Turbomachinery
- Computational Fluid Dynamics
- Advanced Engineering Mathematics
- Advanced Heat Transfer
- Tribology
- Micro Fluidics and its Application
- Heating and Cooling of Buildings

Placement CTC



Core Courses

- Flexible Manufacturing Systems
- Quality Control Assurance and Reliability
- Mechanism and Robotics
- Research Practice
- Manufacturing Planning and Control
- World Class Manufacturing
- Supply Chain Management

M.E. Manufacturing Systems Engineering (Started in 2021)

Elective Courses

- Design Projects
- Mechatronics
- Maintenance Engineering
- Concurrent Engineering
- Computer Integrated Manufacturing
- Advanced Engineering Mathematics
- Toyota Production System



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Vestas



WABCO



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Collins Aerospace



Mercedes-Benz

DEP
Detroit Engineered Products

KLA Tencor
SEDEMACTM

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