

Mechanical and Maintenance Engineering

OVERVIEW

The B.Sc. program in Mechanical and Maintenance Engineering (MECH) prepares graduates for a career in the industry or further studies in the fields of mechanical engineering or maintenance management and related disciplines, such as mechanical engineering design, thermal and fluid systems, smart building systems, engineering consultation, automotive engineering, and management of maintenance systems. The department is equipped with highly qualified faculty and staff who graduated from leading institutions in the field with years of hands-on and research experience worldwide. The program focuses on preparing its graduates with effective communication skills, interpersonal and critical thinking skills, and professionalism and engineering ethics. This program (B.Sc. in Mechanical and Maintenance Engineering) is accredited by the German Accreditation Council (Stiftung Akkreditierungsrat) and Jordan's AQACHEI

WHY TME AT GJU?

If you are interested in some of today's most exciting and rewarding career choices, then you should consider Mechanical and maintenance engineering offered at the School of Applied Technical Sciences (SATS):

- Applied educational system
- National and German Accreditation
- Exposure to the German industrial sector
- Highly qualified faculty and staff
- Outstanding advice and academic support
- State-of-the-art technologies in classrooms and labs
- Small class sizes
- Sports and social activities
- Scholarships for academic excellence
- High employment rate for graduates

TRACKS

- Automotive and E-Mobility
- Thermal Systems

CAREER FIELDS

- Automotive Engineering
- Maintenance Engineering
- Power Generation Sector
- Building Technology Sector
- Project Engineering
- Reliability Engineering
- Renewable Energy Sector
- Medical Equipment Sector
- Manufacturing and Production

LABORATORIES

- Applied Thermal Systems Lab
- Mechanics of materials
- Computer Aided math for mechanical engineering
- Mechanical Vibration and Measurements Instrumentation
- Machine Design and Computer-Aided Design

GERMAN YEAR

All GJU students spend a whole year in Germany as part of their bachelor's degree. This year consists of a study semester at one of our German partner universities where the student attends technical elective courses, and an internship semester, during which the student applies their knowledge in the German industry. The program has an agreement with over 15 partner universities in Germany.

STUDY FIELDS

- Machine design
- Vibrations and Control
- Energy Efficiency Management
- Prognostic and Health Management (condition-based and predictive maintenance)
- Thermal and Fluid systems

SOFTWARE SKILLS

- Ansys
- LabView
- EES
- AutoCAD
- SOLIDWORKS
- MATLAB
- Carrier's Hourly Analysis Program (HAP)



SATS

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