Hochschule Offenburg
offenburg.university

Bachelor of Engineering in Mechanical Engineering

1st + 2nd Semester

Foundations

Basics
Mathematics I+ II
Physics I+II
Physics Lab
Chemistry
Electrical Engineering I

Materials and Mechanics
Materials Engineering I+II
Engineering Mechanics I (Statics)
Engineering Mechanics II
(Mechanics of Materials)

Development and Production
Technical Documentation
Hands-On Lab
Basic Computer Aided Design (CAD)
Machine Elements I
Basic Manufacturing Methods
Industrial Management I

3rd + 4th Semester

Development and Production
Product Design Project I
Product Design Project II
Machine Elements II + III
CAD/CAE, with Lab
Finite Element Method (FEM)

Materials and Mechanics
Engineering Mechanics III (Dynamics)
Materials Engineering Lab
Welding Technology

Foundations
Basic Data Processing
Electrical Engineering II, with Lab

Fluid Dynamics
Technical Thermodynamics
Fluid Mechanics

5th Semester

Practical Semester

Specializations

6th Semester

Mechanical Engineering and Lab
Engines and Machines
Electrical Machines and Installations
Machine Tools

Applied Engineer's Basics
Data Acquisition, with Lab
Management Methods
Measurement and Control Engineering, with Lab
Hydraulics and Pneumatics

7th Semester

Bachelor's Thesis

Electives,
Industrial Management II, Plastics Processing,
Design Methodology, Quality Management

Mechanical Engineering, Bachelor' degree program; last updated April 2018; all information subject to change