1st Semester (30 ECTS)

compulsary lectures - 6 ECTS

- Seminar Biomedical Engineering - 6 ECTS

compulsary elective lectures - 24 ECTS

- Biomedical Intrumentation - 6 ECTS
- Medical Product Development - 6 ECTS
- Medical Engineering I - 6 ECTS
- Medical Engineering II - 6 ECTS
- Biosignal Processing - 6 ECTS
- Biomedical Imaging - 6 ECTS
- Advanced Programming - 6 ECTS
- Internship - 6-12 ECTS

choose 4

2nd Semester (30 ECTS)

compulsary lectures - 18 ECTS

- Computer Assisted Medicine - 6 ECTS
- Advanced Design Engnieering for Medical Products - 6 ECTS
- German for professional practice I - 6 ECTS

compulsary elective lectures - 12 ECTS

- Management for Engineers - 6 ECTS
- Entrepreneurship - 6 ECTS
- Intensive Care Technology - 6 ECTS
- Technology of Minimal Invasive Surgery - 6 ECTS
- Joint Surgery - 6 ECTS
- Biomedical & Scientific Computing - 6 ECTS
- Computer Aided Manufacturing (CAM) in Biomedicine - 6 ECTS
- Biomedical Modeling & Simulation - 6 ECTS
- Contemporary Topics* - 6 ECTS
- Optoelectronics - 6 ECTS
- Virtual-, Augmented and Mixed Reality - 6 ECTS
- Software Design - 6 ECTS
- Hardware/ Software Co Design - 6 ECTS

choose 2 in 2nd and 3rd semester

3rd Semester (30ECTS)

compulsary lectures - 18 ECTS

- Model and AI based Signal Processing in Medicine - 6 ECTS
- Miniproject - 6 ECTS
- German for professional practice II - 6 ECTS

compulsary elective lectures - 12 ECTS

- Medical Engineering Electives
- German only for foreigners
- Management Electives
- Medicine Electives
- Engineering Electives

4th Semester (30 ECTS)

Masterthesis & Colloquium - 30 ECTS