

MECHANICAL ENGINEERING

MANUFACTURING / AUTOMATION

INDUSTRIAL ENGINEERING

**Computational
 Mechanical
 Design**



**Digital
 Manufacturing
 and Automation**



**Digital
 Manufacturing
 and Management**



**Logistics
 and Production**

Double degree programme with the Otto-
 von-Guericke-University Magdeburg (OvGU)



SEMESTER I

Reverse Engineering and Rapid Prototyping
 Advanced Manufacturing Technologies and Systems

Project Management
 Process and Technology Management

Automatic Control

Functional Mechanical Design

Management Control and
 Business Planning

COMMON KNOWLEDGE

SEMESTER II

Mechatronics and Robotics
 Digital Manufacturing and Simulation

Thermo-Mechanical Measurements

Finite Element Analysis (FEA)

Digital Factory and Industrial Maintenance

Advanced Topics of
 Machine Design

Mobile Robotics

Digital Transformation and Sustainability Management

Dynamics of Mechanical
 Systems

Electric Drives and Machines

Design and Development of
 Business Software

Elective 1

SEMESTER III

Computational Thermo-Fluid
 Dynamics (CTFD)

Programmable Controllers for
 Industrial Automation

Management Control and
 Business Planning

Logistic Strategies and
 Methods at OvGU

Design with Composite
 Materials

AI Applications in Industry

Supply Chain Practice /
 ERP at OvGU

Elective

Elective

Elective

Business Decision
 Making at OvGU

Elective

Elective

Elective

Elective at OvGU

Elective

Elective

Elective

Elective at OvGU

Study Project

Study Project

Study Project

Study Project

SPECIFIC KKNOWLEDGE

SEMESTER IV

Master thesis