Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

Sample course plan B. Bachelor General Engineering Science (German program, 7 semester) (AIWRS(7))

Legend:

| Sample | e course plan B Bachelor | General | Engineering Science (German | n progi | ram, 7 semester) (AIWBS | 5(7)) | | Legend: | | | | F O I | | 7 |
|-------------|--|----------------------|---|----------|---|--------------|---|--------------------|---|---|---------------------------------------|----------------------------|-----------------------|------------------------------|
| Specia | lisation Mechanical Engine | ering, Fo | ocus Energy Systems | | | | | | fication Compulsory | Specialisation Co Specialisation Ele | | Focus Compuls | - | Thesis Compulsory |
| | | | | | | | | Compulso | | Compulsory | ective | Focus Elective | Compulsory | Interdisciplinary complement |
| .Р | Semester 1 | Form⊮rs | /wokemester 2 Fo | ornHirs/ | Webernester 3 | Formelrs | Wollemester 4 | Formelrs | Wellemester 5 | FormHrs | /wSkemester | 6 | FormHrs/v | Skemester7 FormH |
| 1 2 3 | Chemistry Chemistry I | VL 2 | Electrical Engineering II: Alternating Current Networks and Basic Devic | | Technical Thermodyna II Technical | | Mechanical Engineerin Design (part 2) Team Project Design | ig: PBL2 | Introduction to Systems | | Introductio | | gement VL 3 | Advanced Internship GES |
| | Chemistry II Chemistry I Chemistry II | VL 2 HÜ 1 HÜ 1 | Electrical Engineering II: VL Alternating Current Networks and Basic Devices | _ 3 | Thermodynamics II Technical Thermodynamics II | HÜ 1 | Methodology Mechanical Design Project II | TT 3 | Systems Introduction to Co Systems | | Manageme | | HÜ 2 | |
| 4 5 | | | Electrical Engineering II: UB Alternating Current Networks and Basic | E 2 | Technical Thermodynamics II | UE 1 | Fundamentals of Mater Science (part 2) | | | | | | | |
| 6 | | | Devices | | | | Fundamentals of Materials Science II | VL 2 | | | | | | |
| 5 7 | Electrical Engineering | 1. | Fundamentals of Mechani | ical | Mathematics III | | Fluid Dynamics | VL 3 | Measurement Te | chnology | Advanced | Mechanical | | |
| 8 9 | Direct Current Network | ks and | Engineering Design | _ 2 | Analysis III | | Fluid Mechanics | VL 3 HÜ 2 | for Mechanical a | | Engineeri | ng Design (p Mechanical | | |
| | Electrical Engineering I: Direct Current Networks | VL 3 | Mechanical Engineering Design | _ 2 | | UE 1 HÜ 1 | | | Measurement Technology for | VL 2 | Engineering | | VL 2 HÜ 2 | |
| 0 | and Electromagnetic Fields | | | Ü 2 | | VL 2 UE 1 | | | Mechanical and F Engineers | Process | Engineering | | 110 2 | |
| 0 1 | Electrical Engineering I: Direct Current Networks | | Design | | Differential Equations 1 | HÜ 1 | | | Measurement Technology for | HÜ 1 | Reciproca (part 2) | ting Machin | ery | |
| 2 | and Electromagnetic Fields | | | | | | Mechanics IV (Kinetics Oscillations, Analytica | | Mechanical and F Engineers | | Internal Co Engines I | mbustion | VL 2 | |
| | | | | | | | Mechanics, Multibody Systems) | | Practical Course: Measurement and Control Systems | | Internal Co Engines I | mbustion | HÜ 1 | |
| 13 | Mathematics I | | Technical Thermodynamic | re l | | | Mechanics IV Mechanics IV | VL 3 UE 2 | Advanced Mech | anical | | | | |
| 14 15 | Linear Algebra I | VL 2 | | _ 2 | | | Mechanics IV | HÜ 1 | Engineering De | | | ntals of Prod | | |
| 15 | Linear Algebra I | UE 1 | Thermodynamics I Technical HI | Ü 1 | Mechanics III (Hydrosta Kinematics, Kinetics I) | atics, | | | Advanced Mecha Engineering Desig | | and Quali Production | ty Manageme | ent VL 2 | |
| | Linear Algebra I Analysis I | HÜ 1 VL 2 | Thermodynamics I | . | Mechanics III | VL 3 | | | Advanced Mecha | | Organizatio | on | | |
| 16 | Analysis I | UE 1 | Technical UE Thermodynamics I | | | UE 2 HÜ 1 | | | Engineering Desig | yır I | Quality Ma | nagement | VL 2 | |
| 17 | Analysis I | HÜ 1 | | | Mechanics III | HUI | | | Heat Transfer Heat Transfer | VL 3 | | | | |
| 8 | | | | | | | Signals and Systems | | Heat Transfer | VL 3 HÜ 2 | | | | |
| 20 | | | Mechanics II: Mechanics of Materials | of | | | Signals and Systems Signals and Systems | VL 3 HÜ 1 | | | | es and Energ | | Bachelor Thesis |
| 21 22 | Mechanics I (Statics) | | | _ | Computer Engineering | | | | . | | Systems | Enorgy | VL 2 | |
| 23 | Mechanics I Mechanics I | VL 2 UE 2 | | | | VL 3 UE 1 | | | Reciprocating M (part 1) | | Renewable Energy Sys Energy Ind | stems and | VL 2 VL 2 | |
| | Mechanics I | HÜ 1 | | | | | | | Fundamentals of Reciprocating En | VL 1 aines | Power Indu | - | VL 1 | |

| Mathematics II Gas and Steam Power VL 3 |
|---|
| |
| Linear Algebra II VL 2 Plants Programming in C Linear Algebra II UE 1 Mechanical Engineering: Gas and Steam Power Programming in C VI 1 Linear Algebra II UE 1 Design (part 1) Plants |
| Programming in C VL 1 Linear Algebra II HU 1 Embodiment Design and VL 2 Programming in C PR 1 Analysis II VL 2 Embodiment Design and VL 2 |
| Physics for Engineers (AIW) Analysis II HÜ 1 Mechanical Design TT 3 Physics for Engineers VL 2 VL UE 1 Mechanical Design TT 3 |
| Physics for Engineers UE 1 Fundamentals of Materials Science (part 1) |
| Fundamentals of VL 2 Materials Science I VL 2 |
| Physical and Chemical VL 2 Basics of Materials Science |

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.