

Winter Semester - Lectures in English Language

PLEASE NOTE:

- The lectures are listed according to the faculty/study program that offers them. If you fulfill the prerequisites you can take any course from any faculty/study program.
- If you take courses from different programs and semesters, there might be conflicts in the time table. The time table, however, will only be announced shortly before the lecture period starts.
- The list is provisional and subject to change.
- The **red numbers** refer to our Campus Management System LSF and allow you to find detailed course descriptions, see https://www.lsf.hs-weingarten.de.
- "hrs/week" = hours per week per semester, 1 hour = 45 minutes.
- With the exception of "Technology Management and Optimization", the lectures offered in the frame of Master programs are also open for advanced Bachelor students.

ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY (BACHELOR PROGRAM)

Second semester

1396 Mathematics 3: Analysis 2 with Exercises (Fechter)

4 hrs/week 5 ECTS credits

4912 Electrical Engineering/ Physics 2: Electrodynamics (Siggelkow)

4 hrs/week 5 ECTS credits

Module Metrology 1, Module: 5 ECTS credits

2117 Metrology 1 (Pfeil)

2 hrs/week

2121 Metrology, Practical Training (Pfeil)

2 hrs/week Total 5 ECTS credits

7079 Basic Practical Training Electrical Eng. 2 – Implementation and verification (Pfeil)

2 hrs/week 2 ECTS credits

Together with 5891 Basic Practical Electrical Engineering 1: Basic Circuits: Module Electrical Engineering Practical (offered in WS in German and in SS in English)

6048 Object-Oriented Programming (Zeller)

4 hrs/week 5 ECTS credits

6334 Digital Technology, Practical Training (Brümmer)

2 hrs/week 2 ECTS credits

Together with 1809 Computer Technology, Practial Training: Module Digital Practical (offered in WS in German and in SS in English)

3947 Computer Technology (Jobke)

4 hrs/week 5 ECTS credits

Fourth semester

1910 Computer-Aided Circuit Design 2: Circuit Design – (Siggelkow)

4 hrs/week 5 ECTS credits

2168 Communication Technology (Fechter)

4 hrs/week 5 ECTS credits

4651 Power Electronics (Farkas)

4 hrs/week 5 ECTS credits

1501 Communication technology Module 1: Internet (Fechter)

4 hrs/week 5 ECTS credits

5298 Automation Module 1: (Introduction to) Power Train Engineering (Farkas)

4 hrs/week 5 ECTS credits

Automation Module 2, Module: 5 ECTS credits

1494 Real Time Programming (Pfeil)

4 hrs/week

1904 Real Time Programming Lab – (Weissensbühler)

4 hrs/week 5 ECTS credits

E-MOBILITY AND GREEN ENERGY (BACHELOR PROGRAM) - ENGLISH TAUGHT STUDY PROGRAM (AS OF SS 2018)

Second Semester

4912 Electrical Engineering/ Physics 2: Electrodynamics (Siggelkow)

4 hrs/week 5 ECTS credits

Module Metrology 1 - Module: 5 ECTS credits

2117 Measurement technology 1 (Pfeil)

2 hrs/week

2121 Measurement Practical Training (Pfeil)

2 hrs/week Total 5 ECTS credits

1396 Mathematics 3: Analysis 2 with Exercises (Fechter)

4 hrs/week 5 ECTS credits

7079 Basic Practical Training Electrical Eng. 2 – Implementation and verification (Pfeil)

2 hrs/week 2 ECTS credits

Module together with 5891 Basic Practical Electrical Engineering 1: Basic Circuits: Module Electrical Engineering Practical (offered in WS in German and in SS in English)

Design - Module: 5 ECTS credits

xx Digital Design, Digital Technology Practical (x)

2 hrs/week 2 ECTS credits

Module together with xx Machinery Design and xx Analog Design: Electronics Practial offered in SS in English

1421 Materials Science (Reick)

4 hrs/week 5 ECTS credits

7086 Machine Construction (Reick)

4 hrs/week 5 ECTS credits

Fourth Semester

xx Digital Signal Processing (x)

4 hrs/week 5 ECTS credits

xx Computer Aided Circuit Design2 – Circuit Design (x)

4 hrs/week 5 ECTS credits

xx Power Electronics (x)

4 hrs/week 5 ECTS credits

xx Electric Power Trains (Reick)

4 hrs/week 5 ECTS credits

7086 Machine Construction (Reick)

4 hrs/week 5 ECTS credits

7086 Machine Construction (Reick)

4 hrs/week 5 ECTS credits

PHYSICAL ENGINEERING AND INFORMATION TECHNOLOGY (BACHELOR PROGRAM) - ENGLISH TAUGHT STUDY PROGRAM (NEW AS OF SS 2019)

Second Semester

XXX Analysis 2 – Differential Equations and Vector Analysis (x)

4 hrs/week 5 ECTS credits

xxx Physics 2 - Electrodynamics (x)

4 hrs/week 5 ECTS credits

Design 1 - Module: 5 ECTS credits

XXX CAD (X)

2 hrs/week

xxx Technical Mechanics (x)

2 hrs/week

Electronics TE 1 - Module: 5 ECTS

xxx Electronics TE 1 (x)

2 hrs/week

xxx Practical Electrical Engineering (x)

2 hrs/week

Software Development - Module: 5 ECTS

xxx Software Development (x)

2 hrs/week

xxx Practical Software Development (x)

2 hrs/week

ELECTRICAL ENGINEERING AND EMBEDDED SYSTEMS (MASTER PROGRAM)

1856 System Analysis and Simulation with LabVIEW for Master (Georgi)

4 hrs/week 5 ECTS credits

1876 Advanced Mathematics for Engineers 1 (Ertel)

8 hrs/week 5 ECTS credits

1905 Process Interface Equipment (Ruf)

4 hrs/week 5 ECTS credits

3124 Embedded Computing (Brümmer)

4 hrs/week 2 ECTS credits? Part of Module Embedded Computing

6807 Processes and Automation in Photovoltaics (Fath, Niedermeier)

4 hrs/week 5 ECTS credits

6894 Advanced Mathematics for Engineers 1 – Lab (Ertel)

4 hrs/week 5 ECTS credits

6895 Circuit & Systems 1 - System-on-Chip (Pfeil)

4 hrs/week 5 ECTS credits

6896 Signal Processing 1 + Lab (Schulter)

4 hrs/week 5 ECTS credits

7110 Wireless Communication (Fechter)

4 hrs/week 5 ECTS credits

7421 Implementation of Close Loop Digital Control Systems IDCS (Altmann)

4 hrs/week 5 ECTS credits

3244 Circuit & Systems 2 - Software (SW) and Hardware (HW) Design (Siggelkow) -

exceptionally offered in this winter semester, normally only SS

4 hrs/week 5 ECTS credits

MECHATRONICS (MASTER PROGRAM)

1856 System Analysis and Simulation with LabVIEW for Master (Georgi)

4 hrs/week 5 ECTS credits

1876 Advanced Mathematics for Engineers (Ertel)

8 hrs /week 5 ECTS credits

4995 Advanced Mathematics for Engineers, Exercises (Ertel)

2 hrs/week 2 ECTS credits

1905 Process Interface Equipment (Ruf)

4 hrs/week 5 ECTS credits

1895 Simulation of Mechatronic Systems (Wöllhaf)

4 hrs/week 5 ECTS credits

2233 Electrical Drives (Paczynski)

4 hrs/week 5 ECTS credits

2236 Engineering Design and Materials (Niedermeier)

6 hrs/week 6 ECTS credits

3124 Embedded Computing (Brümmer)

4 hrs/week 5 ECTS credits

4441 Power Electronics (Farkas)

4hrs/week 5 ECTS credits

6807 Processes and Automation in Photovoltaics (Niedermeier, Fath)

4 hrs/week 5 ECTS credits

6895 Circuit & Systems 1 - System-on-Chip (Pfeil)

4 hrs/week 5 ECTS credits

7455 Autonomous mobile robots for master (Ertel, Stähle)

4 hrs/week 5 ECTS credits

TECHNOLOGY MANAGEMENT AND OPTIMIZATION (MASTER PROGRAM) Lectures offered in the frame of the TM&O Master program are open for Master students only

Module Production Optimization 1

6345 Production System Optimization (Pufall)*

2 hrs/week 3 ECTS credits

6346 Modern Production Engineering Tools (Smets) *

2 hrs/week 2 ECTS credits

This module consists of 6345, 6346 and 6911 (German), in LSF it says "one exam only". Mr. Smets will grant ECTS for each part of the module and also partially grade the exam.

Module Product Optimization 1

6343 Development Methodology (TM & O Research & Development) (Philippi-Beck)*

4 hrs/week 3 ECTS credits

6344 Technology & Innovation Management (Ermark)*

2 hrs/ week 2 ECTS credits

Business Management

6620 Management systems (Philippi-Beck)*

2 hrs/week 2 ECTS credits

6900 Management Accounting and Reporting (Schelter)*

4 hrs/week 4 ECTS credits

Part of Module 8: Management Systems, Management Accounting and Reporting

6466 Operations Research (T. Harth)*

2 hrs/week 2 ECTS credits

6920 TM01 System analysis and Technical Specification (Gerland)*

1 hrs/week 1 ECTS credits

International Academy: Innovation Management and New Technologies (1 Year Program on Bachelor Level)

1479 Intercultural Management (Hohl)

2 hrs/week 2 ECTS credits

3586 International Companies (Philippi-Beck)

2 hrs/week 4 ECTS credits (CAN but does not have to be taken in combination with 3910)

^{*} in Engl. if there are students of ESC Troyes

3910 International Management (Philippi-Beck)

2 hrs/week 2 ECTS credits (If taken in combination with 3586 only one exam of 90 min necessary)

3585 International Marketing (Niersbach)

2 hrs/week 3 ECTS credits (marked case study)

4355 Simulating and Optimizing the value network (Hagen, Giesa)

2 hrs/week 3 ECTS credits

4356 Business Start-Up and Entrepreneurship (Philippi-Beck)

2 hrs/week 3 ECTS credits (business plan)

4462/

1472 Business Game (Philippi-Beck, Klett)

Block Seminar 2 ECTS credits

4473 Practical Project: Investment Case (Duehnfort)

2 hrs/week 3 ECTS credits

4910 International Conduct of Negotiation and Moderation (Hohl, Hock)

Block Seminar 2 ECTS credits

6919 Seminar: Research project - Guiding students through a research paper (Pufall)

2 hrs/week 3 ECTS credits

7184 Seminar: B2B Sales Management (Niersbach)

2 hrs/week 3 ECTS credits

BACHELOR LEVEL - Lectures in English language in various study fields

6598 International Comparison of health care systems (Kern - Health Economics)

2 hrs/week 2 ECTS

3058 Artificial Intelligence Lab (Ertel - Computer Science) - in English if > 3 intl. participants

4 hrs/week 3 ECTS credits

1825 Operating Systems (Eggendorfer - Applied Computer Science)

4 hrs/week 4 ECTS

4305 Strategic Management (Willax – Business Management)

2 hrs/week 3 ECTS

MASTER LEVEL - Lectures in English language in various study fields

3008 Artificial Intelligence for Master (Ertel - Computer Science)

4 hrs/week 5 ECTS credits

3058 Artificial Intelligence Lab (Ertel - Computer Science) - in English if > 3 intl. participants

4 hrs/week 3 ECTS credits

3227 Advanced Computer Graphics (Scherzer- Computer Science)

8 hrs/week 10 ECTS credits

1876 Mathematics for Engineers (Ertel - Computer Science)

4 hrs/week 5 ECTS credits

4995 Mathematics for Engineers - Exercises (Ertel - Computer Science)

2 hrs/week 3 ECTS credits

3219 Modern Database Technologies (Hulin - Computer Science)

Blended-Learning-Course with Presence Phases 5 ECTS credits

7592 Hardware Security (Eggendorfer - Computer Science)

Blended-Learning-Course with Presence Phases 5 ECTS credits

LANGUAGE LECTURES AND INTERCULTURAL SEMINARS (CLIC)

German as a foreign language = Deutsch als Fremdsprache (DaF)

4382 DaF A1

Attention: The course starts with a two-week intensive course in mid-September 4 hrs/week 4 ECTS credits

4634 DaF A2.

Attention: The course starts with a two-week intensive course in mid-September 4 hrs/week 4 ECTS credits

4630 DaF B1,

Attention: The course starts with a two-week intensive course in mid-September 4 hrs/week 4 ECTS credits

4631 DaF B2,

Attention: The course starts with a two-week intensive course in mid-September 4 hrs/week 4 ECTS credits

4632 DaF C1

4 hrs/week ? ECTS credits

7629 DaF Deutsch für den Beruf

2 hrs/week 2 ECTS credits

7143 DaF Technisches Deutsch

2 hrs/week 2 ECTS credits

5144 DaF – Presentation and Documentation

2 hrs/week 2 ECTS credits

7573 DaF B1, Tutorial/ Support Course

1 hrs/week

7574 DaF B2, Tutorial/ Support Course

1 hrs/week

5144 DaF - Presentation and Documentation

2 hrs/ week 2 ECTS credits

English

6873, 3318, 6848 Professional English 1, B2

2 hrs/week 2 ECTS credits

7137, **7367**, **7142**, **7140** Professional English 2, B2

2 hrs/week 2 ECTS credits

7380 Effective Business Communication Skills B2

2 hrs/week 2 ECTS credits

4408 General English Fluency Upper-Intermediate B2

2 hrs/week 2 ECTS credits

7489 Technical English Inch by inch, B2

2 hrs/week 2 ECTS credits

3995 General English Fluency Advanced C1

2 hrs/week 2 ECTS credits

7489 Technical English Inch by inch, C1

2 hrs/week 2 ECTS credits

7377 English for Specific Purposes: Focus on Mechanical and Automotive Engineering

2 hrs/week 2 ECTS credits

7569 English for Specific Purposes: Leading with Emotional Intelligence

2 hrs/week 2 ECTS credits

55 English for Specific Purposes: Project Management (Conner)

Blockseminar 2 ECTS credits

6857 English for Health Economics

2 hrs/week 2 ECTS credits

898 English Negotiating (Rudolph)

Blockseminar 3 ECTS credits

7356 Professional and academic Writing

2 hrs/ week 2 ECTS credits

Seminars on Intercultural Sensitization and other topics

4656 Intercultural Sensitization (Steinlein)

Blockseminar 1 ECTS credit

1479 Intercultural Management (Hohl)

2 hrs/week 2 ECTS credits

7143 Intercultural Competence (Rudolph)

2 hrs/week 2 ECTS credits

7632 Doing business and work in an English-speaking world - Reducing intercultural misunderstandings and overcoming culture shock (Ironside)

Blockseminar 2 ECTS credits

7634 International Politics and business (Mulder)

Blockseminar: 1 full Saturday + Blended learning/ Online

2 ECTS credits

7635 Sun Tzu's Art of War and Business (Mulder)

Blockseminar 2 ECTS credits

Other language course offers at various levels

Spanish, Italian, Arabic, Russian...