

Winter Semester 2021/ 2022 - Lectures in English Language

PLEASE NOTE:

- The lectures are listed according to the faculty/study program offered. 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 timetable. The timetable, 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/ SWS" = hours per week per semester, SWS= Semesterwochenstunde(n) in German (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 Module Physics 2: Electrodynamics (Doderer)

4 hrs/week 5 ECTS credits

Module Metrology 1, 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 Course - Electric Eng. 2 - Implementation and verification (Pfeil)

2 hrs/week 2 ECTS credits

5 ECTS 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

1438 Digital Technology, Practical Training (Brümmer)

2 hrs/week 2 ECTS credits

5 ECTS together with 1809 Computer Technology, Practical Training: Module Digital Practical (offered in WS in German and in SS in English)

3947 Computer Technology (?)

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: Power Train Engineering (Farkas)

4 hrs/week 5 ECTS credits

=5298 Electric Drives (EM4)

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

4367 Intro to PSPICE/MATLAB with emphasis on communications circuits (Klotzbücher)

4 hrs/week 5 ECTS credits

E-MOBILITY AND GREEN ENERGY (BACHELOR PROGRAM) – ENGLISH TAUGHT STUDY PROGRAM

Second Semester

1396 Mathematics 3: Analysis 2 with Exercises (Fechter)

4 hrs/week 5 ECTS credits

4912 Module Physics 2: Electrodynamics (Doderer)

4 hrs/week 5 ECTS credits

Module Metrology 1 - 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 Course - Electric Eng. 2 - Implementation and verification (Pfeil)

2 hrs/week 2 ECTS credits

5 ECTS 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

1438 Digital Design, Digital Technology Practical (Brümmer)

2 hrs/week 2 ECTS credits

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

1421 Materials Science (Reick)

4 hrs/week 5 ECTS credits

7086 Machinery Design (Reick)

4 hrs/week 5 ECTS credits

Fourth Semester

2152 Digital Signal Processing (Siggelkow)

4 hrs/week 5 ECTS credits

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

4 hrs/week 5 ECTS credits

4651 Power Electronics (Farkas)

4 hrs/week 5 ECTS credits

5298 Electric Drives (Farkas)

4 hrs/week 5 ECTS credits

=5298 Power Train Engineering (EI4)

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

Second Semester

1396 (Analysis 2) Differential Equations and Vector Analysis (Fechter)

4 hrs/week 5 ECTS credits

1418 (Physics 2) Electrodynamics (Klemt)

4 hrs/week 5 ECTS credits

1408 Materials(Kolacyak)
4 hrs/week 5 ECTS credits

Design 1 - Module: 5 ECTS credits

7957 CAD Practical Training(Reick)
2 hrs/week

2166 Technical Mechanics(Pfeffer)
2 hrs/week

Electronics TE 1 - Module: 5 ECTS credits

6052 Electronics TE 1(Schmid)
2 hrs/week

2218 Practical Electrical Engineering/ Electronics(Schmid/ Sieber)
2 hrs/week

Software Development - Module: 5 ECTS credits

6053 Software Development(Eberhardt)
2 hrs/week

6054 Practical Software Development(Eberhardt/ Herzer)
2 hrs/week

*semester 1, 2 and 3 are entirely taught in English, from semester 4 the study program is taught in German. During summer semester lectures from first and third semester are offered in English, during winter semester from the second semester

ELECTRICAL ENGINEERING AND EMBEDDED SYSTEMS - EMM (MASTER PROGRAM)

1856 System Analysis and Simulation with LabVIEW for Master(Georgi, Hohl)
4 hrs/week 5 ECTS credits

Module Advanced Mathematics for Engineers

1876 Advanced Mathematics for Engineers 1(Ertel)
4 hrs/week 5 ECTS credits

6894 Advanced Mathematics for Engineers 1 - Lab(Ertel)
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

2354 Engineering Mechanics(Stetter)

6 hrs/week 6 ECTS credits

3124 Embedded Computing(Brümmer)

4 hrs/week 2 ECTS credits?

Part of Module Embedded Computing

4441 Power Electronics(Farkas)

4hrs/week 5 ECTS credits

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

4 hrs/week 5 ECTS credits

6896 Signal Processing 1 + Signalprocessing 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

Module Embedded Control – in total 5 ECTS

7118 Embedded Control Seminar(Berger)

2 hrs/week

7453 Embedded Control Lab(Berger)

2 hrs/week

7455 Advanced Software Dev. for autonomous mobile robots for master(Ertel, Stähle)

4 hrs/week 5 ECTS credits

7553 Robocup Software architecture Project(Ertel, Stähle)

4 hrs/week 5 ECTS credits

7945 Lidar and Radar Systems(Elser)

4 hrs/week 5 ECTS credits

MECHATRONICS – MM (MASTER PROGRAM)

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

4 hrs/week 5 ECTS credits

Module Advanced Mathematics for Engineers

1876 Advanced Mathematics for Engineers 1(Ertel)

4 hrs/week 5 ECTS credits

6894 Advanced Mathematics for Engineers 1 – Lab(Ertel)

4 hrs/week 5 ECTS credits

1905 Process Interface Equipment(Ruf)

4 hrs/week 5 ECTS credits

8 ECTS together with Lab on Process Interface Equipment offered in SS

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

2354 Engineering Mechanics(Stetter)

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

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

4 hrs/week 5 ECTS credits

7455 Advanced Software Dev. for autonomous mobile robots for master(Ertel, Stähle)

4 hrs/week 5 ECTS credits

7553 Robocup Software architecture Project(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.**

Held in English only if students of Y Schools(ESC Troyes) attend!

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

4 hrs/week 5 ECTS credits

Module Production Optimization 1

6345 Production System Optimization (Pufall)*

2 hrs/week 3 ECTS credits

6346 Modern Production Engineering Tools (Pufall)*

2 hrs/week 2 ECTS credits

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

Module Product Optimization 1

6343 Development Methodology (TMO 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 (Philippi-Beck)*

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

* in Engl. if there are students of Y Schools (ESC Troyes)

NEW INTERNATIONAL ACADEMY – ONE OR TWO SEMESTERS OF INTERDISCIPLINARY STUDY PROGRAM IN ENGLISH ON BACHELOR LEVEL (TAKING SINGLE/ INDIVIDUAL COURSES IS ALSO POSSIBLE) – AS OF SS 2021

! Students can choose any course(s) they are interested in – but in order to receive an RWU certificate for the International Academy students have to earn a minimum of 30 ECTS per semester incl. at least one practical project and one German course, as well as some compulsory and some elective courses!

8034 International communication – analyzing and resolving conflicts in international contexts (Rudolph)

2 hrs/week 3 ECTS credits

10105 Practical Sales Project Seminar (RAFI) (Fuss) (one of the two projects is compulsory if you want to get a certificate for the International Academy)

2 hrs/week ECTS credits (compulsory if you take the whole program)

xxxx Intercultural Challenges in Customer and Account Management (Kadam)

2 hrs/week 3 ECTS credits

xxxx Innovation and Virtual Leadership (Piansoognern)
2 hrs/week 3 ECTS credits (marked case study)

4355 Simulating and Optimizing the value network (Hagen, Giesa)
Attention: Block seminar first week/weekend of Jan before lectures officially start!
2 hrs/week 3 ECTS credits

xxxx Successful Seminar Presentations, Dialogues and Meetings (Hohl) ((one of the two projects is compulsory if you want to get a certificate for the International Academy))
Block Seminar 2 ECTS credits

4305 Strategic Management (Willax)
2 hrs/week 3 ECTS credits

3585 International Marketing (Niersbach, Ali Reza)
Block Seminar 2 ECTS credits

6919 Seminar: Academic writing (Pufall)
2 hrs/week 5 ECTS credits

10127 International Project Management (Collenberg)
2 hrs/week 3 ECTS credits

xxxx B2B Marketing and Sales Project Seminar (Coperion) (Niersbach, Sprung) ((one of the two projects is compulsory if you want to get a certificate for the International Academy))
2 hrs/week 5 ECTS credits

+ one of the below mentioned language courses is compulsory if you want to get a certificate for the International Academy

4382, 434, 4630, 4631, 4632 DaF German as a German language A1, A2, B1, B2, C1.1 (pls. see language lectures offered further down this list by CLIC)
4 hrs/week 4 ECTS credits

OR

10103 Business German (Török)
(for Business German you need to have finished successfully an B1 course in German)
4 hrs/week 4 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

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

1895 Simulation of Mechatronic Systems (Wöllhaf)

4 hrs/week 5 ECTS credits

3219 Modern Database Technologies (Hulin - Computer Science)

Blended-Learning-Course with Presence Phases 5 ECTS credits

6896 Signal Processing 1 + Signalprocessing 1 Lab (Schulter - IN)

4 hrs/week 5 ECTS credits

7592 Hardware Security (Eggendorfer, Inan - Computer Science)

(!! SS22 7435 Software Security, WS22/23 7536 IT Forensics, SS23 7592 Hardware Security.....rotating)

Blended-Learning-Course with Presence Phases 5 ECTS credits

7536 Advanced Controlling (Neff - BWU)

4 hrs/week 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 September 20, 2021 and will be continued on Wednesdays from 9:45 - 13:00 throughout the semester

4 hrs/week 4 ECTS credits

4634 DaF A2,

Attention: The course starts with a two-week intensive course September 20, 2021 and will be continued on Wednesdays from 9:45 - 13:00 throughout the semester

4 hrs/week 4 ECTS credits

4630 DaF B1,

Attention: The course starts with a two-week intensive course September 20, 2021* and will be continued on Wednesdays from 9:45 – 13:00 throughout the semester

4 hrs/week 4 ECTS credits

4631 DaF B2,

Attention: The course starts with a two-week intensive course September 20, 2021* and will be continued on Wednesdays from 9:45 – 13:00 throughout the semester

4 hrs/week 4 ECTS credits

4632 DaF C1

4 hrs/week 2 ECTS credits (starts in the first semester week in October)

+ Support Courses throughout the semester

10068 Deutsch als Fremdsprache – Bewerbungstraining für ausländische Studierende (Ritter)

Block Course: 8.10. and 15.10.2021 or 15.10 and 22.10.2021

English

6848, 3318, 7753, 8168 Professional English 1

7142, 7137, 7367 Professional English 2

10120 Improve your speaking skills C1 (Hopkins)

3993 English for Specific Purposes (ESP): Presenting Internationally (Monja da Silva)

2 hrs/ week 2 ECTS credits

10857 ESP – Intercultural Communications – Talking effectively to an increasingly globalized English-speaking world (Ironsides)

2 hrs/week 2 ECTS credits

10194 ESP: Student EQ Edge – Emotional Intelligence and Your Success (Hopkins)

2 hrs/week 2 ECTS credits

8170 ESP – Get on the right track (Hopkins)

2 hrs/ week 2 ECTS credits

8170 ESP – English for Marketing (Brady-Kühnapfel)

2 hrs/ week 2 ECTS credits

7683 English for Health Economics (Riviere)

2 hrs/week 2 ECTS credits - **ONLINE**

898 English Negotiating – Block Seminar (Rudolph)

Blockseminar, 3 ECTS, 29.10. and 05.11.2021 (max. 40 students)

6392 The key to a successful job application – CV Writing and Interview Techniques (Ironsides)
Blockseminar, 2/3 ECTS, 12.11. and 26.11.2021 (max. 40 students)
2 hrs/ week 2 ECTS credits

4656 Intercultural Sensitization
Block Seminar 1 ECTS – more to come

Additional language course offers at various levels

4922 Chinese for Beginners (Yuan Yuan Wang)
2 hrs/week 2 ECTS credits

6313 Japanese for Beginners A1.2 (Araya-Engler)
2 hrs/week 2 ECTS credits

10205 French A1.1 (Ristau)
2 hrs/week 2 ECTS credits

10205 French A1.2 (Ristau)
2 hrs/week 2 ECTS credits

3985 French A2.1 (Ristau)
2 hrs/week 2 ECTS credits

10002 Spanish A1.1 for beginners (Kösler/ Buhrmann)
3 hrs/week 2 ECTS credits

10003 Spanish A1.2 for beginners (Kösler/)
3 hrs/week 2 ECTS credits

2039 Spanish A2.1 for beginners (Kösler/)
3 hrs/week 2 ECTS credits

156 Italian A1.1 for beginners (de Pascale-Speck)
2 hrs/week 2 ECTS credits

4370 Italian A1.2 (de Pascale-Speck)
2 hrs/week 2 ECTS credits

6415 Italian A2.1 (de Pascale-Speck)
2 hrs/week 2 ECTS credits

10196 Italian B1.2 (de Pascale-Speck)
2 hrs/week 2 ECTS credits

4220 Brazilian-Portuguese (Chitolina-Hack)
2 hrs/week 2 ECTS credits

5187 Swedish A1.1 for beginners(Jung)
2 hrs/week 2 ECTS credits

16 Russian A1.1 for beginners(Manal)
3 hrs/week 2 ECTS credits