Summer Semester 2024 - Lectures offered in English

PLEASE NOTE:

- The lectures are listed according to the faculty/study program offered. If you fulfill the pre-requisites, you can take any course from any faculty/study program. There may not be enough room in some labs though.
- If you take courses from different programs and semesters, there might be conflicts in the timetable. The timetable will only be announced shortly before the lecture period starts.
- The list is provisional only 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/ https://mycampus.rwu.de/.
- "hrs/week = SWS" = hours per week per semester, SWS = Semesterwochenstunde(n) in German (1 SWS = 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 – English taught study program
(SEMESTER 1 AND 3 TAKE PLACE IN ENGLISH IN THE SUMMER SEMESTER, SEMESTER 2 AND 4 IN WINTER SEMESTER)

First semester

Course number	Title	Lecturer	ECTS	Hrs/week
4233	ELECTRICAL ENGINEERING 1: ANALYSIS OF ELECTRIC NETWORKS	JOBKE/ DODERER?	5	4
288	MATHEMATICS 1: ANALYSIS 1 WITH EXERCISES	ELSER	5	4
3000	MATHEMATICS 2: LINEAR ALGEBRA WITH EXERCISES	ELSER	5	4
5432	LINEAR ALGEBRA/ ANALYSIS 1 – TUTORIAL	ELSER/ BERENS	0	2
4341	PROGRAMMING	DENNIG, STEFAN	5	4
DIGITAL TECHNOLOGY (MODULE)				
1850	DIGITAL TECHNOLOGY (P – EI – A)	SIGGELKOW	4	4
1438	DIGITAL TECHNOLOGY, PRACTICAL	SIGGELKOW	?	4
1402	PHYSICS MECHANICS/ PHYSICS 1	DODERER/ SIEBER		

Third semester

4240	ELECTRICAL ENGINEERING 3: CIRCUIT ANALYSIS IN THE TIME AND FREQUENCY DOMAINS	KAUFMANN	5	4
5139	METROLOGY 2	STÖRZER, MARTIN	5	4
1809	COMPUTER TECHNOLOGY PRACTICAL	JOBKE, STEFAN	5	4
LINEAR METROLOGY (MODULE)			5	
1815	ELECTRONICS	STÄRZER, MARTIN		4

Fourth or higher semester		Lecturer	ECTS	hrs/week
Course number	**Title**	**Lecturer**	**ECTS**	**hrs/week**
1816	ELECTRONICS, PRACTICAL TRAINING: LINEAR METROLOGY	REUSCH	2	2
ROBOTICS (MODULE)			5	
5761/ 5768	ROBOTICS + LAB	WÖLLHAF	5	4
ELECTRICAL ENGINEERING PRACTICAL (MODULE) – POSSIBLE TO TAKE AS INDIVIDUAL COURSES – ECTS TO CLARIFY DIRECTLY WITH THE PROFESSOR			5	
5891	BASIC PRACTICAL ELECTRICAL ENGINEERING 1: BASIC CIRCUIT (P 2-3)	KAUFMANN, STÖRZER	3	2
7079	BASIS PRACTICAL COURSE ELECTRICAL ENGINEERING 2: IMPLEMENTATION AND VERIFICATION (ENGLISH)	KAUFMANN, STÖRZER	2	2
COMPUTER-AIDED CIRCUIT DESIGN 1			5	
7077	BASIS PRACTICAL TRAINING ENGINEERING 3: PROGRAMMING OF uC	KAUFMANN, PFEIL		2
1911	CIRCUIT DESIGN PRACTICAL TRAINING	PFEIL, WEBER		2
10519	MATHEMATICS 4: STATISTICS AND NUMERICS	BERGER	5	4
Fourth semester				
7552	ROBOCUP@HOME SEMINAR	STÄHLE	5	4
Six/ Seventh emester				
5298	ELECTRIC DRIVES/ POWER TRAIN ENGINEERING	FARKAS	5	4
1904	AUTOMATION, REALTIME PROGRAMMING, PRACTICAL TRAINING (PART OF MODULE EMBEDDED SYSTEMS (TOTAL) 5 ECTS)	WEISSENSBÜHLER/ SEYWALD	3	2
7552	ROBOCUP@HOME LEAGUE SEMINAR	STÄHLE	5	4
7090	SOFTWARE DEVELOPMENT FOR AUTOMONE MOBILE ROBOTER (AMR)	STÄHLE	5	4

E-mobility and Green Energy (Bachelor Program) - English taught study program
(SEMESTER 2 AND 4 TAKE PLACE IN ENGLISH IN THE WINTER SEMESTER, SEMESTER 1 AND 3 IN THE SUMMER SEMESTER)

Course number	Title	Lecturer	ECTS	hrs/week
First Semester				
4233	ELECTRICAL ENGINEERING 1: ANALYSIS OF ELECTRIC NETWORKS	JOBKE/ DODERER?	5	4
288	MATHEMATICS 1: ANALYSIS 1 WITH EXERCISES	ELSER	5	4
3000	MATHEMATICS 2: LINEAR ALGEBRA WITH EXERCISES	ELSER	5	4
5432	LINEAR ALGEBRA/ ANALYSIS 1 – TUTORIAL	BERENS, FELIX	0	
4341	PROGRAMMING	DENNIG, STEFAN	5	4
DIGITAL TECHNOLOGY (MODULE)			5	
1850	DIGITAL TECHNOLOGY	SIGGELKOW	5	4
1402	PHYSICS MECHANICS/ PHYSICS 1	DODERER/ SIEBER	5	4
Third Semester			5	4
4240	ELECTRICAL ENGINEERING 3: CIRCUIT ANALYSIS IN THE TIME AND FREQUENCY DOMAINS	KAUFMANN	5	4
5761/ 5768	ROBOTICS + LAB 8	WÖLLHAF	5	4
10525	MATHMATICS 4: STATISTICS AND NUMERICS	DODERER, THOMAS	5	4

Fourth or Higher Semester				
Course number	**Title**	**Lecturer**	**ECTS**	**hrs/week**
Electrical Engineering Practical (module)– possible to take as individual courses – ECTS to clarify directly with the professor			5	
5891	Basic Practical Electrical Engineering 1: Basic Circuit (P 2-3)	Kaufmann, Störzer	3	2
7079	Basic Practical Course Electrical Engineering 2: Implementation and Verification	Kaufmann, Störzer	2	2
1904	Automation, Realtime Programming, Practical Training (Part of Module Embedded Systems (Total) 5 ECTS)	Weissensbühler/ Seywald	3	2
Automotive Engineering: Basics, practical and CAD (Module)			10	
7087	Automotive Engineering	Reick	5	4
7034	Practical Automotive Engineering	Reick	3	2
7295	Computer Aided Design (CAD)	Reick	2	2
1815	Electronics	Störzer, Martin	5	4
2119	Machine Construction	Pfeffer	5	4
7351	Project Seminar: Scientific Work (Bilingual)	Siggelkow / Pfeil	5	4
10277	Robot Car Racing Competition	Berens	5	4
Fourth Semester				
Sixth/ Seventh Semester				
5839	Traffic Telematics/ Intelligent Transportation Systems (German) but materials avail. and Exam in English possible	Fechter	5	4
4913	Hybrids in Cars	Farkas	5	4

Physical Engineering (Bachelor Program) - English taught study program*

*SEMESTERS 1, 2 AND 3 ARE TAUGHT IN ENGLISH ENTIRELY, FROM SEMESTER 4 THE STUDY PROGRAM IS TAUGHT IN GERMAN!
DURING SUMMER SEMESTER LECTURES FROM SEMESTERS 1 AND 3 ARE OFFERED IN ENGLISH, DURING WINTER SEMESTER FROM SEMESTER 2

First Semester

Course number	Title	Lecturer	ECTS	hrs/week
10361	MATHEMATICS 1: ANALYSIS 1 WITH EXERCISES (SIMILAR TO EI/ EM 288	SMAGA	5	4
10362	MATHEMATICS 2: LINEAR ALGEBRA WITH EXERCISES (SIMILAR TO EI/ EM 3000)	SMAGA	5	4
10363	TUTORIAL – ANALYSIS 1, LINEAR ALGEBRA (SIMILAR TO EI/ EM 5432)	MIN THU/ SMAGA	5	4
7805	PHYSICS 1 – MECHANICS AND THERMODYNAMICS (SIMILAR TO EI/ EM 1402)	SCHLEMMER/ SIEBER	5	4
7724	TUTORIAL/ PHYSICS 1 - MECHANICS AND THERMODYNAMICS	SIEBER/ BAUMGARTEN	5	4
7786	CHEMISTRY	KOLACYAK	5	4
6886	ELECTRICAL ENGINEERING	VOGEL	5	4
COMPUTER SCIENCE (MODULE)			5	
198	BASIC PRINCIPLES OF COMPUTER SCIENCE	NANDAKUMAR/ EBERHARDT		4
1420	PRACTICAL COMPUTER SCIENCE	NANDAKUMAR/ EBERHARDT		4
Third Semester			5	4
2111	ANALYSIS 3: NUMERICAL ANALYSIS/ MATHEMATICS	SMAGA	5	4
6050	PHYSICS III – OPTICS, WAVES, QUANTUM PHYSICS	SCHLEMMER/ SIEBER	5?	6
1271	PHYSICS – PRACTICAL TRAINING IN EXPERIMENTAL PHYSICS 1	EBERHARDT/ BAUMGARTEN/ HERZER	5	4
7409	MATERIALS SCIENCE / MATERIALS	KOLACYAK	5	4
2119	MACHINE CONSTRUCTION	PFEFFER	5	4
6051	ELECTRONICS 2	VOGEL	5	4

IPE – Industrial Project Engineering (Bachelor Program) – English taught study program *

SEMESTERS 1 – 4 ARE TAUGHT IN ENGLISH ENTIRELY, FROM SEMESTER 4 THE STUDY PROGRAM IS TAUGHT IN GERMAN!
DURING SUMMER SEMESTER LECTURES FROM SEMESTERS 1 AND 3 ARE OFFERED IN ENGLISH, DURING WINTER SEMESTER FROM SEMESTER 2

First Semester

Course number	Title	Lecturer	ECTS	hrs/week
288	MATHEMATICS 1: ANALYSIS 1 WITH EXERCISES	ELSER	5	4
3000	MATHEMATICS 2: LINEAR ALGEBRA WITH EXERCISES	ELSER	5	4
5432	LINEAR ALGEBRA/ ANALYSIS 1 – TUTORIAL	ELSER/ BERENS	0	2
4233	ELECTRICAL ENGINEERING 1: ANALYSIS OF ELECTRIC NETWORKS	JOBKE/ DODERER	5	4
10637	INTRODUCTION PRODUCTION TECHNOLOGY	STRAUB	5	5
10803	ADVANCED PRODUCTION TECHNOLOGIES	BRECKLE, ACKERS	5	4
10516	PROGRAMMING WITH PYTHON	HARTH, ZERRIN	5	4
1850	DIGITAL TECHNOLOGY	SIGGELKOW	5	4
7063	SYSTEMS ENGINEERING (ONLINE)	STELTER	5	4
10813	APPLIED HEAT TRANSFER AND FLOW	KAUFMANN	5	4

Electrical Engineering and Embedded Systems – EMM (English taught Master Program)

Course number	Title	Lecturer	ECTS	hrs/week
10813	Applied Heat Transfer and Flow	Kaufmann, André	5	4
7110	Communication 1 – Wireless communication	Fechter	5	4
7790	Communication 2 – Nearfield Communication	Fechter	5	4
Advanced Control Systems (Module)			5	
1706	Digital Control	Berger		3
4876	Digital Control Lab	Berger		2
Embedded Computing (Module)			5	
4874	Embedded Computing Lab (SS only)	Pfeil		2
7193	Embedded Project (SS only)	Pfeil		3
4872	Computer Vision	Elser/ Berens	5	4
7781	Computer Architecture	Siggelkow	5	4
Robotics Module			8	
3311	Robotics	Wöllhaf/ Stähle	5	4
2172	Lab on Robotics	Wöllhaf/ Stähle	3	2
7183	Signal processing 2 and Lab	Schulter	5	4
4443	Automation	Ruf	5	4
Process Interface (Module)			8	
2171	Process Interface Equipment LAB	Ruf	3	2

1905	Process interface Equipment – WS only!	Ruf	5	4
1856	System Analysis and Simulation with LabView for Master (Block seminar 22.-26.07.2024)	Hohl, Philipp	5	4
7421	Implementation of Closed Loop Digital Control Systems (DDC)	Altmann	5	4
7455	Advanced Software Development for Autonomous Mobile robots (WS only)	Stähle/ Prasad	5	4
7553	Robocup@Home Seminar for Masters	Stähle / Prasad	5	4
10280	Autonomous Driving	Grösch	5	4
6807	Processes and Automation in Photovoltaics	Niedermeier/ Fath	5	4
5812	Machine Learning for Intelligent Systems	Schneider, Markus	5	4
10715	Advanced Hybrids	Farkas, Laszlo	5	4
5149	Working in International Scientific Project teams (Block Seminar 19.+20.4., 26.+27.3.)	Rudolph	5	4

Mechatronics – MM (Entlish taught Master Program)

Course number	Title	Lecturer	ECTS	hrs/week
10813	Applied Heat Transfer and Flow	Kaufmann, André	5	4
2233	Electrical drives	Farkas	5	4
4443	Automation	Ruf	5	4
1856	System Analysis and Simulation with LabVIEW for Master	Hohl, Philipp	5	4
Process Interface (Module)			8	
2171	Lab on Process Interface Equipment	Ruf	3	2
1905	Process interface Equipment – WS only!	Ruf	5	4
7455	Advanced Software Development for Autonomous Mobile Robots – WS only	Stähle/ Prasad	5	4
Advanced Control Systems (Module)			5	
1706	Digital Control	Berger		3
4876	Digital Control Lab	Berger		2
3311	Robotics	Wöllhaf/ Stähle	5	4
2172	Lab on Robotics	Wöllhaf	3	2
Embedded Computing (Module)			5	
4874	Embedded Computing Lab (SS only)	Pfeil		2
7193	Embedded Project (SS only)	Pfeil		3
7421	Implementation of Closed Loop Digital Control Systems (DDC)	Altmann	5	4
6807	Processes and Automation in Photovoltaics	Niedermeier/ Fath	5	4

7553	Robocup@Home Seminar for Master	Stähle/ Prasad	5	4
10280	Autonomous Driving	Grösch	5	4
5812	Machine Learning for Intelligent Systems	Schneider	5	4
5149	Working in Intl. Scientific Project Teams (Block Seminar 19.+20.4., 26.+27.3.)	Rudolph	5	4

Bachelor level – Lectures In English Language In various study fields

Course number	Title	Lecturer	ECTS	hrs/week
1825	OPERATING SYSTEMS	ZELLER – APPLIED COMPUTER SCIENCE	5	4
7217	GAME DESIGN – OPTIONAL IN ENGLISH	SCHERZER– MEDIA DESIGN	5	4
7667	DESIGING AR/ VR EXPERIENCE– OPTIONAL IN ENGLISH	LAUTERBACH – MEDIA DESIGN	5	4
7214	MOTION DESIGN– OPTIONAL IN ENGLISH	LAUTERBACH – MEDIA DESIGN	10	8
7090	AUTONOMOUS MOBILE ROBOTS (AMR)	SCHNEIDER/ STÄHLE	5	4

Master level – lectures in English language in various study fields

Course number	Title	Lecturer	ECTS	Hrs/week
5812	MACHINE LEARNING FOR INTELLIGENT SYSTEMS	SCHNEIDER – IN	5	4
6279	COMPUTER GRAPHICS FOR MASTER– OPTIONAL IN ENGLISH	SCHERZER – IN	5	4
6768	GAME DEVELOPMENT FOR MASTER – OPTIONAL IN ENGLISH	SCHERZER – IN	5	4
7183	SIGNAL PROCESSING 2 AND LAB	SCHULTER, SEYWALD – IN	5	4
7954	APPLIED DEEP LEARNING	SCHUTERA – IN	5	4
3939	COMPUTATIONAL METHODS IN ENGINEERING	HARTH – PEM	3	2

Some lectures in the study program **"Media Design"** can be offered in English as they are offered as a project – if you are interested, kindly let me know in advance, so that I can check the possibilities -https://www.rwu.de/studieren/studiengaenge/mediendesign?destination=%2Fhochschule%2Ffakultaeten%2Felektrotechnik-und-informatik%23studiengaenge#studieninhalte

Lectures from the **Faculty S (Social Work etc.)** are offered mostly in German. If you have a German level of B1 and are interested to take some, kindly let me know in advance, so that I can get in touch with the faculty to check which courses are project-based and more practically oriented so that they might fit for you - https://www.rwu.de/hochschule/fakultaeten/soziale-arbeit-gesundheit-und-pflege#studiengaenge

	International Academy - 1 or 2 semesters of an Interdisciplinary study program in English			
10102	Cross cultural communication and team work	Hohl	3	2
10105	Practical Sales Project Seminar	Fuss	5	2
10106	Research Methods in Business Marketing	Kadam	5	2
7184	International B2B marketing & Sales	Ahmadi, Huber, Haase	5	2
10107	Entrepreneurial Leadership – online	Opas Piansoongnern	3	2
10357	Consumer Psychology	Walter	3	2
10718	Strategic Marketing – online	Smirnova	5	2
7510	Technical Sales and Purchasing	Josef Schneider	4	5
10798	Sustainability and Earth Resources – online	Ian Picketts	5	2
7801	Sales Excellence – only for Master students	Niersbach	5	4
10612	International Business Week – Study week for Bachelor Vienna & Bratislava (21.07. – 27.07.24)	Niersbach, kadam	5	21.-27.07.24

Language Lectures and Intercultural Seminars (CLIC)

German as a foreign language = Deutsch als Fremdsprache (DaF) + Support Courses throughout the semester

Course number	Title	Lecturer	ECTS	Hrs/week
4382	DaF A1 (2 goups) Attention: The course starts with a two-week intensive course in March 2024 and will be continued on Wed from 08:30– 13:00 throughout the semester	Jurcsik, Geisler	4	4
4634	DaF A2 (2 groups) Attention: The course starts with a two-week intensive course in March 2024 and will be continued on Wed from 08:30– 13:00 throughout the semester	Neudert-Ramos, N.N	4	4
xxxx	DaF A2 – Additional Support Course, starting Oct – tbd			
4630	DaF B1 (2 groups) Attention: The course starts with a two-week intensive course in March 2024 and will be continued on Wed from 08:30– 13:00 throughout the semester	Straner, Hägele	4	4
10687	DaF B1 – Additional Support Course, starting Oct 12 – ONLINE – tbd			
4631	DaF B2 Attention: The course starts with a two-week intensive course in March 2024 and will be continued on Wed from 08:30– 13:00 throughout the semester		4	4
10688	DaF B2 – Additional Support Course – WRITING – ONLINE - tbd			
10079	DaF C1.2, starts Oct 11 – ONLINE - tbd		2	4

Course number	English and other languages – examples from summer semester 2023 (same or similar courses will be offered in the summer semester 2024 but the offer will be finalized a few weeks before semester begin only!)			
Course number	**Title**	**Lecturer**	**ECTS**	**Hrs/week**
10214	English B1 (originally for EU1+2/ FT1+2/ M1+2 students) – Module with B2, pls discuss with CLIC if you can participate for less credits	Le Roy	–	2
10215	English B2 (originally for EU1+2/ FT1+2/ M1+2 students) – Module with B1, pls discuss with CLIC if you can participate for less credits	Le Roy	5 (if you do both B1 + B2)	2
7753, 8168	Professional English, B2 (two groups)	Walz	5	4
3318	Professional English 1, B2 (originally for BM2 students – 3-4 groups) – Module in connection with Prof. Engl 2. If you want to participate, please discuss with CLIC, if you can do that for less credits!	Connor, Walz	2 (Module 5)	2
6848	Professional English 1, B2 (originally for TW1 students – Module in connection with Prof. Engl 2. If you want to participate, please discuss with CLIC, if you can do that for less credits!	Connor	2 (Module 5)	2
7367	Professional English 2, B2 (2 groups) originally for BM3 students– Module in connection with Prof. Engl 1. If you want to participate, please discuss with CLIC, if you can do that for less credits!	Ironside, Walz, Boerger	2 (Module 5)	2
7137	Professional English 2, B2 (originally for TW2 students) – Module in connection with Prof. Engl 1. If you want to participate, please discuss with CLIC, if you can do that for less credits!	Ironside, Boerger	2 (Module 5)	2
10795	English and Economy (IPE 3)	Matter	5?	4
10210	Improve your speaking skills C1	Hopkins	2	2
10194	ESP – Student EQ Edge – Emotional Intelligence and your Success	Hopkins	2	2
8179	ESP – Get on the right track	Hopkins	2	2
7398	ESP – English for Marketing - online	Brady – Kühnapfel	2	2
10342	ESP -Vital Skills for the future Manager / Leader	Hopkins	2	2
10598	Intercultural Team- and project management (2 groups)	De Silva	5	4
156	Italian, A1.1 for beginners	Esposito-Depprich	2	2
4370	Italian, A1.2	Esposito-Depprich	2	2
10712	Italian, B1, Conversazione in lingua Italiana livello B1	De Pascale Speck	2	2
10205	French, A1.1. for beginners	Ristau	2	2

3324	French, A1.2	Ristau	2	2
3985	French, A2.1	Ristau	2	2
10778	French A2 Conversation	Ristau	2	2
4220	Brazilian – Portuguese, A1.1 – for beginners	Neudert Ramos	2	2
6312	Brazilian – Portuguese, A1.2	Neudert Ramos	2	2
3322	Japanese, A1.1 (for beginners)	Akiya, Michiko	2	2
6313	Japanese, A1.2 (from Lecture 5/ or basic knowledge required)	Akiya, Michiko	2	2
6313	Japanese, A1.3 (from lecture ?)	Akiya, Michiko	2	2
10695	Japanese, A2.2	Akiya, Michiko	2	2
10002	A1.1 Spanish for Beginners (2 groups)	Buhrmann	2	3
10003	A1.2 Spanish for Beginners (2 groups)	Buhrmann	2	3
2039	Spanish, A2.1	Kösler	2	2
4596	Spanish, A2.2	Buhrmann	2	2
7752	Spanish, B1.2	Buhrmann	2	2
4612	Turkish, A1 for beginners	Dumann	2	2
10642	Turkish A2	Dumann	2	2
4656	Intercultural Sensitization – (03. + 04.05.24)	De Pascale Speck & Team	1	Block Seminar
898	English Negotiating – (07.+08.06. + 14.+15.06.2024)	Rudolph	2	Block Seminar
5149	Working in International Scientific Project Teams –Group 1 – 19.+ 20.04.24, Group 2 – 26.04.+27.04.24	Rudolph	2	Block Seminar