

RheinMain University of Applied Sciences – Faculty of Design Computer Sciences Media

Courses taught in English and bilingually or with limited English support*

* Please check the column "Language of Instruction"

Regarding your course selection, please note the following:

With your application at RheinMain University of Applied Sciences you enroll in a specific degree program. Your selection of courses is therefore limited to courses offered within this program. As a general rule, choosing courses from different programs is not possible, as courses from different programs frequently overlap.

To learn more about the course offerings for your semester at RheinMain University of Applied Sciences, please take a look at the list of courses taught in English/bilingually/with English support below or contact the respective [departmental international coordinator](#) for your degree program.

Please be informed that this course list may be subject to change.

According to your level of German you may also choose courses taught entirely in German. Please visit the faculty website to see the course offerings for the program of study you are enrolled in: <https://www.hs-rm.de/en/faculties/>.

Core Skill and Language Courses		
Core Skill Courses Open to All Exchange Students offered by the Competence & Career Center (Website)		
Course Title	Credit Points (= ECTS)	Semester Offered
International Week: Future Leaders 18.-22.07.2022	3 ECTS	In Summer Only, as a block course
Prepare & Reflect – International Exchange Description: In this seminar, you will learn how to engage consciously with other cultures. We will look at ways to communicate and interact effectively and to avoid misunderstandings. You will be prepared for your semester abroad and accompanied during your stay. At the end of your stay you have the possibility to reflect and exchange your experiences with others. One of the major tasks is to create a short video about an intercultural topic within a small group and present it to the other participants.	3 ECTS	Every semester, starting winter 2022/23

Language Courses Open to All Exchange Students (<i>Examples</i> ; for current course offer visit the Language Center Website)		
German as a Foreign Language		
German Intensive Course (various levels*; duration: 2 weeks, prior to start of exchange semester) <small>* Our intensive course is primarily aimed at existing A- to B1-levels. Students with a level B2 and up in German <i>may</i> be asked to choose a semester-long course if they are interested in taking a German language class, depending on the overall results of the placement tests prior to the Intensive Course.</small>	4 ECTS	Every Semester
German as a Foreign Language (various A2-B2 levels)	2 ECTS	Every Semester
Hallo Deutschland: Geschichte, Kultur, Politik & Wirtschaft (German B2)	2 ECTS	Every Semester
English as a Foreign Language		
1261 Remedial English 1 (A2/B1)	2 ECTS for exchange students	Every Semester
1313 English at Work: Writing Business Letters and E-Mails (B1)	2 ECTS	In Summer Only
1315 English at Work: Giving Presentations (B1)	2 ECTS	In Winter Only
1292 Improve Your English Accuracy (B1/B2)	2 ECTS	Every Semester (but sometimes compact in the semester break)
1155 Intercultural Communication in Practice (Blended Learning)	2 ECTS	In Winter Only
1115 Advanced Technical English 1 (B2)	2 ECTS	In Summer Only
1125 Advanced Technical English 2 (B2)	2 ECTS	In Winter Only
Additional English and German intensive courses and workshops are also offered during the semester breaks – contact the Language Center for information		
“English for Specific Purposes” Courses (focus varies depending on degree program)		
Media English (B2/C1) (Media Management)	3 ECTS	Every Semester
Media English (B2/C1) (Media: Conception & Production)	3 ECTS	Every Semester
English for Design (B2)	3 ECTS	Every Semester
English for Interior Design (B1/B2)	2 ECTS	Every Semester
International Scientific Presentation Skills (Crossmedia Spaces; Creative Media Conception)	3 ECTS	Every Semester

Course Title	Course Code	Course Description	Credit Points (= ECTS)	Language of Instruction	Module offered
Communication Design (B.A.)					
Design Project	N.N.	15 different Design Projects available, for details please contact Christine.Bernhardt@hs-rm.de	9	Taught in German, 1:1-tutoring in English possible	Every Semester
Art & Design Technique	N.N.	20 different Art & Design Techniques available, for details please contact Christine.Bernhardt@hs-rm.de	3	Taught in German, 1:1-tutoring in English possible	Every Semester
Intercultural Communication	N.N.	Intercultural competence, interculturality, multiculturality and hybridity Self-perception and perception of others Reflection on personal cultural norms, values and attitudes Analysis of patterns of thinking, behaviour and communication in other cultures Critical evaluation of theoretical models of cultural differences Strategies for overcoming problems in intercultural communication Intercultural competence in a professional context	3	Taught in English	Every Semester
Computer Science (B.Sc.)/ Computer Engineering (B.Sc.)					
Bachelor's Thesis	9050	Analysis of the task Developing the theoretical basis, evaluating various alternative solutions Independent development of the solution to the problem Scientific documentation in the form of a Bachelor thesis	15	Supervision in English possible on enquiry before application	Every Semester

Elective Project	5110	Different Elective Projects available, for details please contact Martin.Gergeleit@hs-rm.de	15	Supervision in English possible on enquiry before application	In winter only
Specialized Seminar	5121	Different Specialized Seminars available, for details please contact Martin.Gergeleit@hs-rm.de	5	Supervision in English possible on enquiry before application	Every Semester
Computer Science (M.Sc.)					
Selected Topics of Computer Science/Computer Vision	99400	Different Topics of Computer Science/Computer Vision available, for details please contact Martin.Gergeleit@hs-rm.de	6	Taught in German with limited English support	Every Semester
Master's Thesis	94310	Analysis of the task, development and use of formal models, evaluation of possible alternatives Methodologically sound design of complex systems Development of complex software using current technologies Proof of functional and non-functional properties Scientific documentation in the form of the Master's thesis	30	Supervision in English possible on enquiry before application	Every Semester
Parallel and distributed algorithms	99310	Machine models for parallel and distributed processing (esp. multicore/multiprocessor systems, clusters, grids, distributed architectures based on communication networks, GPGPUs, etc.) Programming paradigms for parallel and distributed processing	6	Taught in German with limited English support	On request, for details please contact Martin.Gergeleit@hs-rm.de

		<p>Abstractions for synchronisation and communication and their programming interfaces in different programming languages</p> <p>Patterns</p> <p>Parallel algorithms for special application areas</p> <p>Implementation environments (e.g. Message Passing Interface (MPI), OpenMP, MapReduce/Hadoop, OpenCL)</p> <p>Fundamentals of distributed algorithms</p> <p>Basic distributed algorithms (e.g. election algorithms, distributed scheduling, snapshot, global time, commitment, auctions)</p> <p>Special distributed algorithms for specific applications</p>			
The Internet of Things	98310	<p>Internet of Things: Basic definitions and delimitations</p> <p>Hardware basics, especially RFID technologies and node architecture</p> <p>Networks for the Internet of Things, esp. low-power radio technologies</p> <p>Integration with the classic internet, 6LoWPAN</p> <p>Middleware for the Internet of Things</p> <p>Self-localisation and tracking</p> <p>IdD and Big Data</p> <p>Security and privacy</p> <p>Business aspects of the Internet of Things</p>	6	Taught in German with limited English support	On request, for details please contact Martin.Gergeleit@hs-rm.de

		<p>Application areas: esp. Industry 4.0, logistics, smart home, medical technology</p> <p>Experiments with various IdD nodes (Raspberry Pi, sensor nodes) and IdD wireless technologies (RFID, NFC, IEEE 802.15.4, Bluetooth Smart)</p> <p>Design and implementation of an IdD device</p>			
Project - Design and Realization of Systems I & II	91310/ 92310	<p>Project management (especially time and resource management) of a manageable research project in a group (other group members are usually fellow students, but can also be, e.g., academic scientific assistants).</p> <p>Thorough literature research on the topic of the Master's project</p> <p>Presentation of the research results to the group in the form of a state-of-the-art report as the basis for the finding solutions</p> <p>Independent development of solution approaches for the task through discussion in a group, weighing up of alternative solutions</p> <p>Realisation/implementation (in the sense of a proof-of-concept) using current technologies and tools</p> <p>Evaluation of the solution found according to relevant criteria</p> <p>Securing the results in the form of documentation in accordance with the rules of good scientific practice.</p>	12	Taught in German with limited English support	Every Semester

Interior Architecture (B.A./M.A.)					
No English course offer in 2021/22 due to re-structuring and re-organization of the degree program, revised offer planned for academic year 2022/23					
International Media Management (B.Sc.)					
Cultural Diversity in International Markets	M07	Culture, cultural dimensions according to Hofstede and other authors Cultural imprint and values in different societies "Global" vs. "Local" in the context of corporate and brand communication Analysis of international brand campaigns Communication and branding in the context of the market entry of companies and brands Strategies of international brand communication	3	Taught in English	Every Semester, beginning with Summer Semester 2023
Intercultural Communication	M07	appropriate spontaneous language production presentations rhetoric/persuasion as a rhetorical strategy constructive criticism planning and conducting negotiations international negotiations media-specific vocabulary in English cultural norms, values and attitudes cross-cultural barriers patterns of thought, behaviour and communication of other cultures topic-specific discussions in English	3	Taught in English	Every Semester, beginning with Summer Semester 2023
Media Production Tools	M09	Image editing and retouching, e.g. Adobe Photoshop	3	Self-Study courses offered online and in English	Every Semester, beginning with Summer Semester 2023

		<p>Vector-based implementation of illustrations, e.g. Adobe Illustrator</p> <p>Layout and desktop publishing, e.g. Adobe Indesign</p> <p>Editing of visual content (e.g. Adobe Premiere)</p> <p>Colour correction of visual content (e.g. Adobe Speedgrade)</p> <p>Sound production (e.g. audition)</p> <p>Programming for websites (e.g. JavaScript, PHP)</p> <p>Code debugging and testing (e.g. Firebug)</p> <p>Mobile app prototyping (e.g. proto.io)</p> <p>Web and SEO analytics (e.g. GoogleAnalytics)</p>			
Management & Business Skills	M09	<p>Spreadsheet software (Microsoft-EXCEL)</p> <p>Business process software (e.g. SAP)</p> <p>Accounting/tax software (e.g. DATEV)</p> <p>Database software (e.g. Microsoft Access)</p>	3	Self-Study courses offered online and in English	Every Semester, beginning with Summer Semester 2023
Scientific Tools & Data Analytics	M09	<p>Application of software for statistical analysis and implementation of scientific studies (e.g. SPSS)</p> <p>Visualization of infographics (e.g. Microsoft Excel)</p> <p>Creation of questionnaires (e.g. Survey Monkey, Limesurvey)</p> <p>Conception and implementation of empirical studies</p> <p>Qualitative and quantitative data collection</p>	3	Self-Study courses offered online and in English	Every Semester, beginning with Summer Semester 2023

International Management 1	M13	<p>The contents of the course cover the basics of international management. In addition to theoretical and methodological knowledge, important fields of design and instruments of operative, tactical and strategic international management are also covered.</p> <p>Theories and fundamentals of international management Analysis methods and instruments of international management Strategic control and management of international media companies Functional areas of international management Special features of operational, tactical and strategic international management Discussion of selected case studies of international management</p>	3	Taught in English	Every Semester, beginning with Summer Semester 2023
International Management 2	M13	<p>The contents covered approaches and instruments for the implementation, control and management of international teams and projects with a special focus on the special requirements of international media productions. New approaches will also be covered, which arise in the area of agile project management approaches as well as from the requirements of collaborative working at a distance.</p> <p>Basics and methods of modern project management</p>	3	Taught in English	Every Semester, beginning with Summer Semester 2023

		<p>Special features and challenges of international media projects</p> <p>Structures, processes and culture in international projects</p> <p>Planning and control of international media projects</p> <p>Approaches and tools of collaborative work at a distance in international projects</p>			
<p>Research Studies in Media Design & Technology</p>	M14	<p>Contents are current topics from the fields of media design and technology. The topics are determined for each course in consideration of current trends and focal points in media practice and are suitable for individual work by the students.</p> <p>In addition to their relevance to current media practice, the topics also have references to applied research. Topics could for example relate to the following areas:</p> <p>New approaches to the design of interactive media and moving image media Innovative tools and platforms for the development and distribution of interactive and moving image media.</p> <p>Novel measurement for measuring and improving the usability and user experience of interactive media and moving image media.</p> <p>Trends and novel technologies for media production in the field of</p>	6	Taught in English	Every Semester, beginning with Summer Semester 2023

		interactive media and moving image media. Influence of new media formats and technologies on media use and reception.			
Case Studies in International Media Management 1 & 2	M15	Content examples: <ul style="list-style-type: none"> - Strategies for the entry of companies and brands in different regional markets - Success factors for the internationalization of companies, products and media productions - Competition and environment analysis of different regional markets - Media usage behaviour in international comparison - Corporate design in an international context - Intercultural corporate communication - Management international companies - Corporate management with multinational employees - Methods for the assessment of opportunities and risks of internationalization of brands and companies - Recruitment and management of international employees 	12	Taught in English	Every Semester, beginning with Summer Semester 2023
Current Topics of International Media Management	M16	Students can deepen their interdisciplinary skills in discourse with experts from abroad and identify current topics with relevance for	9	Taught in English	Every Semester, beginning with Summer Semester 2023

		international media markets and productions. Students independently recognize interdisciplinary connections and references of the topics to the subareas of design, economy and technology. They are able to represent their own contributions to the discussion in an argumentative manner and take on the role of moderator in international and interdisciplinary contexts.			
Project Methods and Management	M17	Project management methods (e.g. work breakdown structure/ Kanban, risk analysis, Scrum) Description of the task Definition of the objective and the methodical procedure Planning and organization of creative processes Self-reflection and documentation of the results of the project Documentation of projects	3	Taught in English	Every Semester, beginning with Summer Semester 2023
Project Studies	M17	The topics of the project studies will be announced before the beginning of the semester. Typical project tasks are for example * Development of scientific studies * Extensive research and market analysis * Analysis of media usage behavior * Evaluation of media * Development of concepts and strategies for the use of media * Conception Implementation of media productions	3	Taught in English	Every Semester, beginning with Summer Semester 2023

Advanced Methods of Scientific Research	M20	<p>The course teaches basic and advanced methods of scientific work. This includes the conception and planning of scientific studies in the fields of observation, survey and experiment. In addition, the conception of qualitative and quantitative empirical studies and software-supported data analysis are covered. In detail, topics such as:</p> <ul style="list-style-type: none"> - Introduction to the theory of science. - Formulation of research questions and hypotheses. - Information acquisition with observation, questioning and experiment. - Advanced qualitative and quantitative empirical research methods. - Conception of questionnaires and implementation of surveys. - Statistical data analysis with SPSS. 	3	Taught in English	Every Semester, beginning with Summer Semester 2023
Research Organisation and Management	M20	<p>The course deals with the planning and implementation of a research project. The different steps from narrowing down the research question to literature research, selection of a research method and documentation and publication of research work will be covered. In addition, special requirements for writing English research papers are dealt with. Selected main topics of the course are:</p>	3	Taught in English	Every Semester, beginning with Summer Semester 2023

		<ul style="list-style-type: none"> - Planning and organisation of a research project. - Definition of the research topic and formulation of research questions. - Literature research and analysis of the state of research. - Selection of a suitable research method. - Special features of writing research papers in English. - Documentation and publication of student research. 			
Research Paper	M20	<p>Contents are current topics from the field of media management and economics with a focus on international media markets. The topics are determined for each course in consideration of current trends and main topics in media practice and are suitable for individual work by students. In addition to their relevance to current media practice, the topics also have references to applied research. Topics can, for example, relate to the following subject areas:</p> <ul style="list-style-type: none"> - Economic problems of production and marketing of media products on international media markets. - Economic effects of changes in media products in global markets and the transformation of international media markets. 	6	Taught in English	Every Semester, beginning with Summer Semester 2023

		<ul style="list-style-type: none"> - Business models for media products and management-relevant issues in media production. - • Special problems in the specific functional areas of international media companies. 			
Bachelor's Thesis	M22	Independent scientific work on an individual topic in the field of International Media Management. The result is a written document according to standards for scientific papers.	12	English	Every Semester, beginning with Summer Semester 2023
Media and Design Management (M.Sc.)					
Digital Business & Transformation	2002	<p>Causes of digital transformation Key technologies and drivers of digital transformation Value creation structures and players in the digital business economy Effects of digital transformation on business processes and structures Selected case studies and enabling technologies in digital business Introduction into mobile business (as a selected area of digital business) Basic principles of the development of mobile solutions and mobile business models</p>	3	Taught in English	In summer only
Digital Markets: Economics & Regulation	2002	<p>Selected contents. Due to the dynamics of the topic the contents are regularly updated at the beginning of the course. As a result, the following selection is to be understood as an exemplary "snapshot":</p>	3	Taught in English	In summer only

		Digital Telecom/Media Markets: Relevance and Development Regulatory Frameworks in Digital Markets (Example: Telecommunications / Media Markets) Structures of and value chains on digital telecommunications networks Business models for the distribution of media content on telecommunications networks Convergence of media content and telecommunications services			
Branding	2202	Foundation of Brand Management Design in the context of marketing and branding Organising design teams and decision making in design Strategies and methods of analysing and positioning brands Naming and testing of brand identities Corporate identity and corporate design Trademark protection and legal issues of brands	3	Taught in English	In summer only
Marketing & Communication Management	2202	Marketing Planning Operational Marketing Corporate and Marketing Communication	3	Taught in English	In summer only
Motion Image Media - Production & Technology	2402	Media Technologies: - Fundamental audio/video technologies and future trends - Merging audio/video and information/communication	3	Taught in English	In summer only

		<p>technologies in production, postproduction and distribution</p> <ul style="list-style-type: none"> - Management systems (portals, CMS, EAI, collaboration systems, web shops, automation, playout...) - Organizational processes and technical workflows in network production environments - Motion image productions 			
Motion Image Media - Storytelling & Design	2402	<p>Methods and techniques of storytelling (classical basic elements, cross media storytelling, transmedia storytelling, serial storytelling, possibly also interactive storytelling and storytelling in VR and AR)</p> <p>Basic elements and emergent innovations in visual and auditory dramaturgies</p> <p>On the basis of selected current topics: Derivation of a usage scenario and suitable distribution channels for it Development of a transmedial Storyworld* by applying storytelling methods and visual dramaturgies in the development of usage and distribution specific moving image formats (* or interactive storytelling, VR, AR and future systems with moving image parts)</p>	3	Taught in English	In summer only
Smart System Design & Technology	2502	<p>Lectures convey interdisciplinary aspects, such as technical frameworks and design methods, for the design of smart interactive media. These will be</p>	3	Taught in English	In summer only

		<p>geared towards state-of-the-art applications. Further, this knowledge will be applied in concrete conception exercises, addressing an initially defined user experience. In addition, variously scaled implementation possibilities will be assessed, as well as their chances, risks and required effort.</p> <ul style="list-style-type: none"> - Possibilities and limitations of current technologies in the field of Augmented Reality and Virtual Reality - Interactive Surface Computing - Interactive Entertainment, Game Design aspects and Interactive Storytelling - Computer supported collaborative work 			
User Experience Design	2502	<p>The course 'User Experience Design' conveys basic knowledge of user experience on two levels, both theoretical and practical. Students gain an insight into the know-how for integrating users into the design, development and testing of user interfaces. Further, different techniques for prototyping, testing and evaluating will be demonstrated and applied in practical exercises.</p> <ul style="list-style-type: none"> - Usability Engineering / Usability Testing - Persona, Use Case, Scenario - Heuristic Evaluation 	3	Taught in English	In summer only

		<ul style="list-style-type: none"> - Measuring UX quality aspects with questionnaires - Accessibility 			
Student Research (Project)	2102	Students will extend their knowledge of research methods and research processes, as well as of collecting and analyzing data. They will be put into a position to utilise this during their studies by assessing and accomplishing research tasks, preparing a seminar paper as a trial for their Master thesis. They shall be able to document their results in written form following the standards of academic research and writing.	6	Supervision in English possible on enquiry before application	In summer only
Media Computer Science (B.Sc.)					
Bachelor's Thesis	9050	<p>Analysis of the task</p> <ul style="list-style-type: none"> - Developing the theoretical basis, evaluating various alternative solutions - Independent development of the solution to the problem - Documentation in the form of the Bachelor thesis 	15	Supervision in English possible on enquiry before application	Every Semester
Software Engineering Project	5110	<p>Independent processing of a larger software project in a team</p> <p>Role allocation in the team</p> <p>Agile project implementation</p> <p>Appropriate documentation of project results</p> <p>Work organisation in the team</p> <p>Methodical project support</p>	10	Taught in German, 1:1 tutoring in English possible, if the working group decides to work in English	In winter only

		Software project management, agile approaches to project organisation Time management, models and techniques; conflict management; Dealing with personal resources Metrics and effort estimation Configuration and change management (versioning, configuration; tool support), software			
Media: Conception and Production (B.A.)					
Intercultural Communication	2302	Reflection on personal cultural norms, values and attitudes Intercultural barriers Analysis of the patterns of thought, behaviour and communication of other cultures Critical evaluation of theoretical models relating to cultural differences Dealing with foreignness and intercultural conflicts Targeted training in English-language presentation techniques Topic-specific discussions in English	3	Taught in English	Every Semester
Equipment and Project Management	1802-01	Project Management - Project life cycle in media production - Project management: project planning, management and completion, incl. relevant methods and tools - Proven methods for identifying conflicts in good time and resolving them systematically	3	Taught in English	Every Semester Has to be taken together with „Audio Video Production I“

		<ul style="list-style-type: none"> - Processes for creating efficient project controlling systems - Cost accounting and costing of media productions <p>Studio and electronic field production</p> <ul style="list-style-type: none"> - Pre- and post-production - Studio procedures - Directing/image technology - Studio camera - Studio sound - Mixer/green & blue screen - Studio exercise - Studio lighting - EFP sound - Interview techniques <p>Animation</p> <ul style="list-style-type: none"> - Motion graphics - 2D and 3D animation (After Effects etc.) - Audio/post-production 			
Audio Video Production I	1802-02	<p>Conception and production of non-fictional journalistic content</p> <p>Clear communication with the target group</p> <p>New cross-media media formats</p> <p>Research, analysis, structuring, preparation and distribution of complex content on a variety of media platforms</p> <p>Theory and practice of film and video production, consisting of creativity, technology, organization and management</p>	12	Taught in English	<p>Every Semester</p> <p>Has to be taken together with „Equipment and Project Management“</p>

		Individual aspects are put into practice, such as production planning and the creation of a script or an event concept Linking of dramaturgical/aesthetic aspects and those dependent on production technology			
Design Workflow	1402-01	Use of channels and means of communication customary in the industry Target-group-oriented preparation of content Platform-specific forms of presentation for ideas and stories Using information sources and communicating content Workflows and success factors in design management Project life cycle: creating cross-media communication concepts Documenting workflows and work outcomes	3	Taught in English	Every Semester
Media Production Basics	1402-02	Introduction to media production from a business management perspective Script analysis and extracts Resource planning Timetables and production schedules, work coordination Basic principles of costing	3	Taught in English	Every Semester
Seminar Technology/ Design/Organization (Seminar Papers)	2402	In this course, students have to write two seminar papers. Students in each case work on a given topic from the technical,	12	Supervision in English possible	Every Semester

		creative/artistic, and/or organizational area. Students have to choose two of the three subject areas. The topics have to be separated so that each student can work on the different subject areas.			
Media Management (B.Sc.)					
Topics of Media Economics	B-MM-L45-SWI	Independent scientific work on an individual topic in the field of Media Economics. The result is a written document according to standards for scientific papers. Different topics available, for details please contact alexander.moutchnik@hs-rm.de	6	Individual work on scientific paper with supervision in English	Every Semester, beginning winter semester 2022/23
Intercultural Communication	B-MM-L16-CUL	Intercultural competence and communication (theories, analysis, reflection, problem-solving) presentations writing assignments selection and work on a specific theme in the context of intercultural communication with lectures, presentations and discussions	3	English	Every Semester
Social and Professional Skills	B-MM-L15-SBK	Independent work on a practical oriented topic in the field of public relations, event management, research and documentation, etc. Different topics available, for details please contact alexander.moutchnik@hs-rm.de	3	Individual Project with supervision in English	Every Semester, beginning winter semester 2022/23

Project 1	B-MM-L38-PR1	Group project on current topics of Media Management. Different topics available, for details please contact alexander.moutchnik@hs-rm.de	14	English or German with group tutoring in English (depending on project)	Every Semester, beginning winter semester 2022/23
Project 2	B-MM-L43-PR2	Group project on current topics of Media Management. Different topics available, for details please contact alexander.moutchnik@hs-rm.de	14	English or German with group tutoring in English (depending on project)	Every Semester, beginning winter semester 2022/23
Bachelor-Thesis	B-MM-L43-PR2	Independent scientific work on an individual topic in the field of Media Management. The result is a written document according to standards for scientific papers. Please contact alexander.moutchnik@hs-rm.de	12	English	Every Semester, beginning winter semester 2022/23