Faculty of Management, Economics & Law, University of Klagenfurt
Curriculum for the Doctoral Program in Social and Economic Sciences
Courses open for CESEENet in Fall 2025

Title	**Design Science Research**
Course number	030.001
Course link	https://campus.aau.at/studium/course/123104
Type	Lecture – Course (continuous assessment course)
Course model	Attendance-based course
Lecturer	EDER Johann, RINNER Bernhard
Organisational unit	Department of Informatics Systems (ISYS) and Department of Information Technology (ITEC)
ECTS	4 ECTS-credits
Hours per week	2
Content	Design Science is a rather new paradigm, which fits constructive sciences (like engineering, computer science, etc.) better than the traditional research paradigms of natural sciences or behavioral sciences resp. arts and humanities, since it positions the creation of novel artifacts within a given context in the center of attention. The students are trained in doing literature work, in particular in the dissection of papers to identify research goals, claims, and methods used, such that students gain a reflected insight into the research methods and practices in their very particular area of research. Furthermore, the planning of projects, the formulation of research goals and the writing of research proposals is actively trained. A particular feature of this lecture is that we work with literature, which is relevant in the research area of each student, and analyze this literature from a usually novel, i.e., methodological angle. Additionally, a wealth of research methods is presented and discussed in the context of design science research with a particular focus of relating research goals with the methods which can be applied to reach these goals and to evaluate results. However, the course does not train a particular (set of) research methods.
Intended learning outcomes	The goals of this course are: • to make students aware of the paradigm of design science research, • to contrast design science with other research paradigms and • to discuss and train all the methodological aspects of research projects guided by design science research.
Previous knowledge expected	Successfully graduated from a master program.

Methodology	The lecture is a combination of classical lecture (presentation by lecturers) and active involvement of the students through assignments, reflection, and discussions. Finally, the students have to prepare a brief project proposal and defend it in class.
Exam information	Exam Methodology: Assessment of written reports and presentations. Exam topics – four assignments: 1. Selection of 10 scientific papers (in each student's specific research field) 2. Evaluation and presentation of the research goals in the papers 3. Evaluation and presentation of the research methods in the papers 4. Creation and presentation of a research proposal Assessment criteria/Standards of assessment for examination: Quality of the solutions, written reports, and presentations.
Literature	• (Textbook:) Roel J. Wieringa: Design Science Methodology for Information Systems and Software Engineering. Springer Verlag, 2014. • Creswell, J.W. (2009). Research Design: Qualitative, Quantitative, and Mixed Method Approaches.SAGE. • Johannesson, P.; Perjons E.(2014). An Introduction to Design Science, Springer Verlag. • Kumar, R. (2005). Research methodology – A step-by-step guide for beginners. • Liles, D.; Johnson, M.; Meade, L.; Underdown, D. (1995). Enterprise Engineering: A discipline?, Society for Enterprise Engineering (SEE) Conference, Orlando, FL, USA. • Olivier, M.S. (2009). Information Technology Research. • Vishnavi, V.K.; Kuechler W. (2015). Design Science Research Methods and Patterns. CRC Press.
Time and place	Tuesdays, 3.15 – 4.45 pm, S.2.69, University of Klagenfurt
Starting date:	October 7th, 2025

Faculty of Management, Economics & Law, University of Klagenfurt	
Curriculum for the Doctoral Program in Social and Economic Sciences	
Courses open for CESEENet in Fall 2025	
Title	**Publications**
Course number	030.013
Course link	https://campus.aau.at/studium/course/125208
Type	Seminar (continuous assessment course)
Course model	Blended learning course
Lecturer	BIDMON Sonja
Organisational unit	Marketing and International Management
ECTS	4 ECTS-credits
Hours per week	2
Content	The aim of the seminar is to gain an insight into the typical publication process in academic research. Using selected journal articles, students analyse and discuss how the research was conducted and which methods were used. However, in order to deepen the insight into the publication process, the course format has been designed around a module structure. Through interactive engagement with the content of the five modules, students gain a step-by-step holistic overview of successful publication. Each module has specific objectives. Learning Objectives Module 1: Topic Choice and Analysis of Selected Pieces of Research In Module 1, you will learn • how to assess the attractiveness of your chosen topic from an editor's perspective and critically review it • to critically analyze selected pieces of research exemplified by papers written at the Department of Marketing and International Management and evaluate them based on guiding questions Learning Objectives Module 2: Literature Searching and Literature Reviews In Module 2, you will learn • how to search systematically for literature in the field of interest • to differentiate between reviewing literature and literature reviews • how to plan, conduct, organize and present a systematic review (key stages) • which guidelines help to assess the quality of a literature review • what the PRISMA flow diagram is Learning Objectives Module 3: Selecting a Target Journal In Module 3, you will learn • how to assess the quality of a scientific journal

	• to understand what the impact of a publication and a Journal Impact Factor (JIF) is • to know why citation metrics are important • to understand what the advantages and disadvantages of Impact Factors are • to assess the suitability of a possible target journal by the usage of various criteria Learning Objectives Module 4: Basics of Writing a Research Paper In Module 4, you will learn • to know the typical structure of a scientific paper following the *Hourglass Model* • how to keep your manuscript concise and precise by adhering to some simple guidelines • to follow some recommendations in scientific writing for new writers • to think about what the reader needs Learning Objectives Module 5: Peer Reviews In Module 5, you will learn • why peer review systems are essential in scientific research • what are the advantages and disadvantages of peer review systems • how to address concerns raised by reviewers • how to phrase an authors' response
Intended learning outcomes	The seminar "Publications" was originally designed for the interdisciplinary doctoral programme "Health and Sustainability Communication and Management (HSCM)". This doctoral programme provides participants with comprehensive competences in communication and management in the field of health, for the field of sustainability and for the assumption of social responsibility. Three different doctoral degrees can be obtained within the framework of HSCM: the Doctor of Natural Sciences (Dr.rer.nat.), the Doctor of Philosophy (Dr. phil.) and the Doctor of Social and Economic Sciences (Dr.rer.soc.oec.). Since winter term 2023/24, this seminar has been opened and offered as an interdisciplinary seminar also for doctoral students outside the HSCM programme. However, based on the experience of the course leader, examples will mainly come from the context of marketing and management. The exchange of experiential knowledge on the part of participants from other disciplines is very welcome and reinforces the interdisciplinary character of the course.
Prior knowledge expected	Completion of a corresponding master's degree
Curricular registration requirements	Enrolment in the doctoral programme of the HSCM or another doctoral programme at the AAU. Doctoral students from the doctoral programmes and doctoral studies of all faculties are welcome.
Methodology	Discussion, group work, role-play, presentations, assignments (in-class and only partially at home)
Exam information	Exam Methodology: There is no exam, but there are assignments for each module to be completed instead. Tasks for each module: in total 90 points (Modul 1 + three out of Module 2-5) • Module 1: 30 points • Module 2: 20 points • Module 3: 20 points • Module 4: 20 points

	• Module 5: 20 points Most of the tasks are fulfilled in-class in the form of team assignments or group assignments. Examination topic(s): Completing and uploading assignments to each module on time. Assessment criteria / Standards of assessment for examinations: grading system 45-90 points with <45 for a positive grade
Literature	See Moodle course
Time and place	Thursday – 06/11/2025, 11.45 am – 04.45 pm, on campus S.0.05 Thursday – 20/11/2025, 11.45 am – 04.45 pm, on campus S.0.05 Thursday – 27/11/2025, 11.45 am – 04.45 pm, on campus S.0.05 Thursday – 04/12/2025, 11.45 am – 04.45 pm, on campus S.0.05 Thursday – 08/01/2026, 11.45 am – 04.45 pm, on campus S.0.05
Starting date:	November 6th, 2025

Faculty of Management, Economics & Law, University of Klagenfurt
Curriculum for the Doctoral Program in Social and Economic Sciences
Courses open for CESEENet in Fall 2025

Title	**Data Analytics**
Course number	605.574
Course link	https://campus.aau.at/studium/course/123459
Type	Course (continuous assessment course)
Course model	Blended learning course
Lecturer	BREITSOHL Heiko
Organizational unit	Department of Organization, Human Resources and Service Management
ECTS	4 ECTS-credits
Hours per week	2
Content	Introduction to research design Graphical Models Causal Inference with Experiments Causal Inference with Controls Impact Evaluation: Basic Definitions, Assumptions, and Randomized Experiments Difference-in-difference Estimation Regression Discontinuity Design Other designs
Intended learning outcomes	Students have a solid understanding of graphical models for causal inference, and impact evaluation. After completing this course, students can independently apply the newly acquired tools to solve practically relevant problems.
Prior knowledge expected	no specific requirements
Methodology	Online videos, in-class lectures, individual and/or group exercises
Exam information	Written exam and/or presentations Examination topic(s): see course content Assessment criteria / Standards of assessment for examinations: Scores on exam and presentation. The following rules apply to the above-mentioned performance criteria regarding the use of AI tools: The use of AI tools is allowed for creating visualizations (but not substantive content) as part of the group presentation. Students must disclose

	the use of AI tools and label AI-generated passages accordingly. For all other parts of the presentation as well as for the written exam, the use of AI tools is explicitly prohibited.
Literature	To be announced
Time and place	Tuesdays, 10.00 am – 01.15 pm, online or S.0.05 on campus
Starting date:	October 7th, 2025

Faculty of Management, Economics & Law, University of Klagenfurt	
Curriculum for the Doctoral Program in Social and Economic Sciences	
Courses open for CESEENet in Fall 2025	
Title	**Entrepreneurship, Innovation and Regional Economic Development**
Course number	605.290
Course link	https://campus.aau.at/studium/course/123195
Type	Course (continuous assessment course)
Course model	Blended learning course
Lecturer	AUDRETSCH David
Organisational unit	Department of Innovation Management and Entrepreneurship
ECTS	4 ECTS-credits
Hours per week	2
Content	From Social to Sustainable: Humanizing Entrepreneurship in the Klagenfurt School of Innovation and Entrepreneurship Strategic Management of Place Factors & Resources Spatial Structure & Organization The Human Dimension Public Policy ** Please find detailed information on course content and relevant chapters for the course units in Syllabus on Moodle*
Intended learning outcomes	By the end of the course students will be able to apply the understanding of the process of economic development for cities, regions and countries in both a historical and contemporary context; and evaluate the effectiveness of public policies, and in particular the role of entrepreneurship and innovation, in meeting economic development challenges particular to a region
Prior knowledge expected	Master level studies
Methodology	Combination of lecture and class discussion
Exam information	Exam Methodology: active participation during the course, final assessment paper to be handed in by the announced deadline Exam topics: POLICY REPORT AND PRESENTATION

	The final assessment is a student project, in which each student, in self-organized teams of four or five people, analyzes the strategic management of a city or region of their choosing. In this project, you are to address the following questions: 1. What are/were the main economic development problems and challenges? What evidence can you provide to document these challenges? 2. What policies did the governing bodies implement to deal with these challenges? Why was this particular set of policies pursued? 3. How successful were these policies in meeting the economic development challenge particular to that city or region? What evidence can you provide to document the policy's success or lack thereof?
Literature	Required literature (two mentioned sources which will be found on Moodle or free access via University Library Access): *Everything in its Place: Entrepreneurship and the Strategic Management of Cities, Regions, and States.* David B. Audretsch, Oxford University Press, 2015 *The Strategic Management of Place at Work: Why, What, How and Where*. David B. Audretsch, Alice Civera, Erik E. Lehmann, Konstantin P. Leidinger, Jonah M. Otto, Laurenz Weiße and Katharine Wirsching. Springer, 2023
Time and place	Monday – 03/11/2025, 9.00 am – 5.00 pm, on campus B12a.1.4.1 Wednesday – 05/11/2025, 1.00 pm – 6.00 pm, on campus B12a.1.4.1 Thursday – 06/11/2025, 8.30 am – 12.00 pm, on campus B12a.1.4.1 Thursday – 13/11/2025, 2.00 pm – 6.00 pm, online Thursday – 20/11/2025, 2.00 pm – 6.00 pm, online Thursday –04/12/2025, 2.00 pm – 6.00 pm, online Thursday – 11/12/2025, 2.00 pm – 6.00 pm, online
Starting date:	November 3rd, 2025

Faculty of Management, Economics & Law, University of Klagenfurt	
Curriculum for the Doctoral Program in Social and Economic Sciences	
Courses open for CESEENet in Fall 2025	
Title	**Joint Doctoral Seminar in Innovation & Entrepreneurship**
Course number	605.304
Course link	https://campus.aau.at/studium/course/123272
Type	Course (continuous assessment course)
Course model	Blended learning course
Lecturer	AUDRETSCH David, SCHWARZ Erich
Organizational unit	Department of Innovation Management and Entrepreneurship
ECTS	4 ECTS-credits
Hours per week	2
Content	Topics of ongoing doctoral projects
Intended learning outcomes	The seminar is structured as a common working group seminar. Especially, the reciprocal nature of the seminar shall foster the knowledge of doctoral students in their topics, techniques and methods, it shall also help to increase skills to present and to defend research and it shall help to learn through problems and strengths of other presentations for the benefit of own research projects.
Prior knowledge expected	scientific interest and knowledge in the field of entrepreneurship and innovation
Curricular registration requirements	inscribed as doctoral student
Methodology	The seminar addresses doctoral students in the working area of Entrepreneurship and Innovation. Students are requested to present their research design, research progress, research methods and research difficulties by presenting is to other PhD students and to the teaching staff members. Especially, the reciprocal nature of the seminar shall foster. The aim of this seminar is to collect all doctoral students who are engaged with different research works under the umbrella of Entrepreneurship and Innovation. A central task of this teaching unit is discussion, coaching and supervision of ongoing doctoral projects.
Exam information	Exam Methodology: active participation in discussions, presentation of own research, review of research work of other course participants

	Exam topics: see above Assessment criteria/standards of assessment for examinations: all parts have to be positively completed
Literature	no information
Time and place	Monday – 06/10/2025, 10.00 am – 12.00 pm, online Monday – 27/10/2025, 10.00 am – 12.00 pm, online Tuesday – 04/11/2025, 8.15 am – 5.00 pm, S.1.05 Thursday – 06/11/2025, 12.30 pm – 6.00 pm, B12a.1.4.1 Tuesday – 25/11/2025, 2.00 pm – 5.00 pm, online
Starting date:	October 6th, 2025

Faculty of Management, Economics & Law, University of Klagenfurt
Curriculum for the Doctoral Program in Social and Economic Sciences
Courses open for CESEENet in Fall 2025

Title	**BA1: Empirical Methods (Time Series Econometrics I)**
Course number	608.185
Course link	https://campus.aau.at/studium/course/122497
Type	Integrated lecture (continuous assessment course)
Course model	Attendance-based course
Lecturer	WAGNER Martin, N.N.
Organizational unit	Quantitative Economics Division
ECTS	4 ECTS-credits
Hours per week	2
Remarks	TSE I is a compulsory elective for MEDS students in the Minitrack 1: Foundations of Business Analytics; a compulsory elective for PhD students (Dr.rer.soc.oec. and MSOBE) and for Mathematics students in various subjects at bachelor and master levels (see Position in the curriculum). TSE II is an open elective for MEDS students in the Minitrack 1: Foundations of Business Analytics; a compulsory elective for PhD students (Dr.rer.soec.oec. and MSOBE) and for Mathematics students in various subjects at bachelor and master levels (see Position in the curriculum). The two courses are intertwined and scheduled over the full semester, with the TSE II component including more mathematically detailed explanations and proofs of key results. The mathematical details will be relevant for the TSE II exam. Students enrolled only in TSE I will be informed in due course which units will be designated TSE II units. *** We explicitly refer you to the policy regarding academic misconduct, as outlined in Appendix 1 of the Bulletin 2nd Edition, No. 11.2 – 2024/2025, dated October 16, 2024, as well as the use of AI, which can be found in the Moodle course. We kindly ask you to read through this material! Please also note that translations into other languages serve only as informational purposes. Solely the version advertised in the University Bulletin (Mitteilungsblatt) is legally binding. Additional information on academic misconduct can be found in the Higher Education Quality Assurance Act (HS-QSG), in the Statute of the University of Klagenfurt, Part B, Section 19a, in the Code of Conduct, and in the Academic Misconduct Policy issued by the Rectorate and the Rector of Studies.
Content	Encompassing List • Introduction • Descriptive Time Series Analysis

	• Naive Forecasting Methods • Hilbert Spaces (*) • Stationary Processes • Spectral Analysis (*) • Parameter Estimation for Stationary and Causal VAR Processes • Regression with Integrated Processes • VAR Cointegration Analysis • Structural VAR Models The item list is encompassing – and in this form too much for our allocated time, therefore we will make a “sensible” selection, based on: • Prior knowledge • Specific interests (compatible with prior knowledge) Some of the slide decks are voluminous and contain a lot of material that will not all be covered in detail, but may serve as a source of future reference. The mathematics/statistics of TSE tends to become relatively involved relatively quickly and thus proofs will be TSE II designated.
Intended learning outcomes	The course provides a (medium-level) introduction into major aspects of time series analysis, both conceptually (theoretically) and by means of complementing practical applications in the exercises. Students are able to specify adequate models for stationary and integrated time series, and use the estimated models for analysis, including forecasting, but also structural analysis. Students are also aware of potential pitfalls and problems. The outline is to a certain extent tentative and can and will be adjusted to the pre-knowledge and interests of the students.
Prior knowledge expected	Understanding of basic mathematical statistics and some linear algebra is most useful for successful participation in the course. Some familiarity with real analysis and stochastic processes would facilitate the understanding of technical details but is not required. To some extent and within bounds, the course can be, as mentioned, adapted to the prior knowledge of the participants. The most important ingredients are motivation and willingness to learn about time series methods.
Curricular registration requirements	Curriculum MEDS 23W: CBK1 and CBK2
Methodology	The course combines lectures and practice sessions, with the practice sessions consisting of discussions of both "pencil and paper" as well as computer exercises using both simulated and real-world data. Many software packages and/or programming languages/environments are being used in time series analysis. In the practice sessions, the software used will be R (potentially also MATLAB or Python).

Exam information	Examination Methodology
	
	• Continuous assessment of the practice sessions:
	  ○ Tick the exercises you have solved and upload the solutions until Wednesday noon (12pm) prior to the practice session in which the corresponding exercise sheet is discussed.
	  ○ During the exercise sessions you will be randomly selected to present your (uploaded) solutions (to ticked exercises).
	  ○ You are expected to give a short and succinct presentation of your solutions.
	  ○ If it turns out that you are absent (without excuse) or have not prepared the exercise, you will be penalized with up to 5 minus points.

	In addition, you will lose the point for the exercise you ticked in the list (or all if you are absent). ○ Serious flaws in the solutions presented will lead to deductions. ○ You may, however, also be awarded bonus points for particulary good explanations of exercises and contributions (to the discussions). ○ In order to be eligible for the two-part final exam you have to tick at least 50% of the exercises during the semester (related to TSE I only or TSE I & TSE II). ○ The practice sessions will contribute 50% to the overall grade. • Two-part final exam: ○ Preparation of a small report (a few pages only). ○ Oral exam: Covering all topics discussed during the semester in the lectures and practice session as well as the small report (related to TSE I only or TSE I & II). Individual dates to be agreed upon. ○ The two-part final exam will contribute 50% to the overall grade. Examination topic(s)**:** All topics covered in the lectures and practice sessions (differentiated into TSE I only or TSE I & II), unless clearly otherwise stated in the lectures. Assessment criteria / Standards of assessment for examinations: exercises, report, oral exam.
Literature	Teaching Materials • During the semester slides, background material – and of course the exercise sheets and data or the practice sessions – will be uploaded to the Moodle course. • The slides do not contain proofs of mathematical results – these will be developed in the classroom on the blackboard. • The course does not follow any textbook closely. • There is a large number of good – partly specific, partly general – time series books, some are listed in the Moodle course; note that they differ substantially in content and complexity. Software • There is no unique market leader when it comes to software used for time series analysis. • There are programming languages or environments like: ○ MATLAB, GAUSS ○ Python ○ R • There are also (more or less) user-friendly and powerful (“clickable”) software environments like: ○ EViews ○ Stata ○ gretl ○ JMulti: closed-shop
Time and place	Wednesdays, 08.00 am – 09.45 pm, B02.2.05 Thursdays, 05.00 pm – 06.30 pm, HS 8
Starting date:	October 1st, 2025

Faculty of Management, Economics & Law, University of Klagenfurt	
Curriculum for the Doctoral Program in Social and Economic Sciences	
Courses open for CESEENet in Fall 2025	
Title	**BA1: Empirical Methods (Time Series Econometrics II)**
Course number	608.185
Course link	https://campus.aau.at/studium/course/122504
Type	Integrated lecture (continuous assessment course)
Course model	Attendance-based course
Lecturer	WAGNER Martin, N.N.
Organizational unit	Quantitative Economics Division
ECTS	2 ECTS-credits
Hours per week	1
Remarks	TSE I is a compulsory elective for MEDS students in the Minitrack 1: Foundations of Business Analytics; a compulsory elective for PhD students (Dr.rer.soc.oec. and MSOBE) and for Mathematics students in various subjects at bachelor and master levels (see Position in the curriculum). TSE II is an open elective for MEDS students in the Minitrack 1: Foundations of Business Analytics; a compulsory elective for PhD students (Dr.rer.soec.oec. and MSOBE) and for Mathematics students in various subjects at bachelor and master levels (see Position in the curriculum). The two courses are intertwined and scheduled over the full semester, with the TSE II component including more mathematically detailed explanations and proofs of key results. The mathematical details will be relevant for the TSE II exam. Students enrolled only in TSE I will be informed in due course which units will be designated TSE II units. *** We explicitly refer you to the policy regarding academic misconduct, as outlined in Appendix 1 of the Bulletin 2nd Edition, No. 11.2 – 2024/2025, dated October 16, 2024, as well as the use of AI, which can be found in the Moodle course. We kindly ask you to read through this material! Please also note that translations into other languages serve only as informational purposes. Solely the version advertised in the University Bulletin (Mitteilungsblatt) is legally binding. Additional information on academic misconduct can be found in the Higher Education Quality Assurance Act (HS-QSG), in the Statute of the University of Klagenfurt, Part B, Section 19a, in the Code of Conduct, and in the Academic Misconduct Policy issued by the Rectorate and the Rector of Studies.
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