FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA

Course list of creditable DigiLab courses in English (effective July 5, 2026)[1]

Module code and title	Module supervisor	Type of course and test performance	Winter/summer term	DP[2]
MW20.7 Research Seminar: Patent Data and Social Network Analysis[3]	apl. Prof. Dr. Holger Graf	Research seminar requiring software-based analyses of empirical data	summer	6
MW21.10 Open Economy Macroeconomics	Prof. Dr. Roland Winkler	This course provides a graduate-level introduction to the macroeconomics of international trade. The emphasis will be on building, analyzing, solving, and interpreting quantitative dynamic models to understand macroeconomic data. To do so, students learn to use Matlab and Dynare.	summer	2
MW21.11 Applied Business Cycle Analysis	Prof. Dr. Roland Winkler	The course provides an introduction to the methods of business cycle analysis. The emphasis will be on the numerical solution, simulation, and evaluation of state-of-the-art business cycle models using the software Matlab (or its free clone Octave) and Dynare. In addition, students conduct a research project.	winter	6
MW23.2 Advanced Public Economics II: Education Economics	Prof. Dr. Silke Übelmesser	Lectures, tutorials and applied empirical analyses with statistics software (Stata), including a software introduction, several exercises, and replication of parts of a publication	summer	3
MW23.3 Advanced Public Economics IV: Special Topics	Prof. Dr. Silke Übelmesser	Lectures, tutorials and applied empirical analyses with statistics software (Stata), including a software introduction, several exercises, and replication of parts of a publication	summer	3
MW24.1 Empirical Methods	Prof. Dr. Oliver Kirchkamp	Students should understand how economic hypotheses are developed and how they are tested. They should learn to assess and to compare different methods to test economic hypotheses	winter	4
MW24.4 Seminar Quantitative Economics[4]	Prof. Dr. Oliver Kirchkamp	Topics from empirical, experimental and quantitative economics	summer	0 – 6
MW25.4 IPE III: Guided Reading in International Economics	Prof. Dr. Andreas Freytag	Gemeinsame Replikation einer empirischen Studie mit statistischer Software (Stata)	winter (starting term 20/21)	3
MW26.2 Financial Intermediation and the Real Economy	Prof. Dr. Daniel Streitz	In this course students replicate empirical studies in the area of banking using the statistical software R. Applications include linear regression models, difference in differences, and IV estimation.	summer	3
MW26.5 General Key Qualifications[5]		Explicitly for DigiLab designated projects with e.g. self-conducted programming, data analysis, optimization by means of software. e.g. -Introduction to R, autonomous processing of analyses with R (apl. Prof. Dr. Holger Graf), 6 DP -Self-conducted applied empirical analyses (Prof. Dr. Silke Übelmesser), 6 DP	winter/summer	1 – 6
MW26.11 Computational Methods for Economists	JProf. Pedro Armada, PhD	Introduction to scientific computing and numerical methods for economic applications using Python. Students implement computational techniques (e.g., optimization, dynamic programming, simulation) and apply them to solve economic models through problem sets and a research project.	WiSe	6

[1] This list only contains courses held in English. The German version of this document also lists the German courses.
[2] Creditable DigiLab points: For modules with point intervals, please refer to the note at the end of the table.
[3] Several seminars are offered as part of module MW20.7. Only seminars explicitly designated as DigiLab-compatible can be credited towards the certificate.
[4] The module supervisor will inform in a timely manner whether and to which extent the seminar will be creditable for DigiLab-Points, see also https://www.kirchkamp.de/mw244.
[5] As part of module MW26.5 “General Key Qualifications“, only explicitly for DigiLab designated projects are creditable for DigiLab-Points.

Module code and title	Module supervisor	Type of course and test performance	Winter/summer term	DP[2]
MW26.12 The Economics of AI	JProf. Saleh Zakerinia, PhD	The course contains a substantial applied component, including hands-on work with Python, data analysis, and structured use of AI tools for empirical and research tasks. Students complete multiple assignments and a project that require coding, data handling, and documented AI-assisted workflows.	SoSe	4
DigiLab-creditable seminars		Seminars with e.g. self-conducted programming, data analysis, optimization by means of software		1 – 6

Note: If a point interval is specified, the course can be extended voluntarily by working on further tasks / cases / projects or it is a seminar in which individual DigiLab points can be awarded. In such cases, the exact number of DigiLab points that can be credited may vary semesterwise and is determined by the module supervisor. For modules with point intervals, proof must be provided when applying for the certificate if more than the minimum number of points is to be credited.

List of former DigiLab courses in English[6]

Module code and title	Module supervisor	Type of course and test performance	Creditable period	DP
MW21.8 Empirical Macroeconomics	Prof. Dr. Maik Wolters	The course enables students to conduct their own applied empirical analyses and sets the basis to study more advanced econometric methods on their own. Applications include the classical linear regression model, nonspherical errors, IV estimation, and univariate and multivariate time series econometrics	from summer 19 to winter 19/20	3
MW21.9 Computational Macroeconomics	Prof. Dr. Maik Wolters	Autonomously conducted research project in the field of computational macroeconomics. Applications include vector autoregressions, stochastic and deterministic simulations of macroeconomic models, estimation of macroeconomic models, forecasting with macroeconomic models	from summer 19 to winter 19/20	6
MW26.7. Topics in Economics - Topics in Empirical Banking	JProf. Huyen Ngoc Phuong Nguyen	The course enables students to conduct their own applied empirical analyses in banking using STATA. Applications include the classical linear regression model, event study, difference in differences, and IV estimation.	from winter 20/21 to winter 25/26	4

[6] The courses on this list are either no longer offered, are offered by another person or are no longer DigiLab-eligible. If these were taken in the specified period, the DigiLab points will still be recognized.