

Course description

Course abbreviation:	KSS/KVAZ	Page:	1 / 4
Course name:	Applications for Quantitative Data		
Academic Year:	2023/2024	Printed:	03.07.2025 04:19

Department/Unit /	KSS / KVAZ			Academic Year	2023/2024
Title	Applications for Quantitative Data			Type of completion	Exam
Accredited/Credits	Yes, 7 Cred.			Type of completion	Combined
Number of hours	Lecture 2 [Hours/Week] Tutorial 2 [Hours/Week] Seminar 2 [Hours/Week]				
Occ/max	Status A	Status B	Status C	Course credit prior to	Yes
Summer semester	0 / -	9 / -	0 / -	Counted into average	YES
Winter semester	0 / -	0 / -	0 / -	Min. (B+C) students	10
Timetable	Yes			Repeated registration	NO
Language of instruction	Czech			Semester taught	Winter, Summer
Optional course	Yes			Internship duration	0
Evaluation scale	1 2 3 4			Ev. sc. – cred.	S N
No. of hours of on-premise					
Auto acc. of credit	Yes in the case of a previous evaluation 4 nebo nic.				
Periodicity	every year				
Specification periodicity					
Substituted course	None				
Preclusive courses	N/A				
Prerequisite courses	N/A				
Informally recommended courses	N/A				
Courses depending on this Course	N/A				

Course objectives:

The class teaches students how to use STATA- a general multipurpose package for the analysis of quantitative data. The class covers both data management and data analytic skills. It complements the introductory statistics class by teaching students how to compute basic statistics in a computer environment

In this practically oriented course students learn how to analyse quantitative data while they also become familiar with particular phases of a research, so they would be prepared for an independent empirical work. During the semester students have to manage work with a statistical software - from creating the data matrix and saving it to making the univariant and bivariant analysis. The course prepares students for writing an empirical Bachelor or Master dissertation.

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Requirements on student

The processing of learning tasks is the essential part of this course. The learning tasks are controlled continuously by teacher. Texts for study are elaborated in required form (essay, presentation, resume, synopsis, abstract).

Students have good knowledge of taught literature.

Students elaborate:

- critical reflexions of assigned literature
- own research proposal
- data collection report/ technical information
- own data analyses
- research report

Students prompt research proposals of their colleagues.
 Students obtain appropriate data autonomously.
 Students present draft of research report.
 Students prompt draft research reports of their colleagues.
 Students defend their final research report.

Content

1. types and sources of data
2. tabular data
3. association
4. interpretation of data
- 5.-6. STATA software
7. data matrix
8. putting-in data
- 9.-10. data management
11. descriptive statistics in STATA
12. Stat-Transfer software
13. research report

Fields of study

Základní informace a studijní materiály můžete najít na CourseWare předmětu KSS/KVAS.

https://portal.zcu.cz/portal/studium/course

Guarantors and lecturers

- **Guarantors:** PhDr. Mgr. František Kalvas, Ph.D. (100%)
- **Lecturer:** Mgr. Patrik Galeta, Ph.D. (100%), PhDr. Mgr. František Kalvas, Ph.D. (100%), PhDr. Eva Krulichová, Ph.D. (100%)
- **Tutorial lecturer:** PhDr. Eva Krulichová, Ph.D. (100%)
- **Seminar lecturer:** Mgr. Patrik Galeta, Ph.D. (100%), PhDr. Mgr. František Kalvas, Ph.D. (100%), PhDr. Eva Krulichová, Ph.D. (100%)

Literature

- **Basic:** Acock, Alan C. *A gentle introduction to STATA*. College Station : Stata Press, 2006. ISBN 1-59718-009-2.
- **Basic:** Hamilton, Lawrence C. *Statistics with STATA : updated for version 9*. Belmont : Brooks/Cole, 2006. ISBN 0-495-10972-X.
- **Basic:** Becker, Howard Saul. *Writing for social scientists : how to start and finish your thesis, book, or article*. Chicago : University of Chicago Press, 1986. ISBN 0-226-04108-5.
- **Recommended:** Rabe-Hesketh, S., Everitt, B. *A Handbook of Statistical Analyses Using Stata. (3rd. Ed.)*. Boca Raton. Chapman & Hall/CRC, 2004.
- **Recommended:** Fox, John. *Applied regression analysis, linear models, and related methods*. Thousand Oaks : SAGE Publications, 1997. ISBN 0-8039-4540-X.

Time requirements

All forms of study

Activities	Time requirements for activity [h]
Individual project (40)	40
Undergraduate study programme term essay (20-40)	24
Contact hours	78
Preparation for an examination (30-60)	40

Total:

182

assessment methods**Knowledge - knowledge achieved by taking this course are verified by the following means:**

Combined exam
 Skills demonstration during practicum
 Seminar work
 Individual presentation at a seminar
 Continuous assessment
 Project

Skills - skills achieved by taking this course are verified by the following means:

Combined exam
 Skills demonstration during practicum
 Seminar work
 Individual presentation at a seminar
 Continuous assessment
 Project

Competences - competence achieved by taking this course are verified by the following means:

Combined exam
 Skills demonstration during practicum
 Individual presentation at a seminar
 Project

prerequisite**Knowledge - students are expected to possess the following knowledge before the course commences to finish it successfully:**

to describe and explain the basic sociological methods
 to describe the formation of sociological perspectives in the use of sociological methods
 to enumerate and describe the basic quantitative methods
 to describe the basic knowledge resulting from empirical quantitative research

Skills - students are expected to possess the following skills before the course commences to finish it successfully:

to form a formally acceptable professional output
 to use foreign databases of professional journals
 to apply and interpret knowledge resulting from the application of quantitative methods
 to use adequate concepts corresponding terminology of the field in Czech and English

Competences - students are expected to possess the following competences before the course commences to finish it successfully:

N/A
 N/A
 N/A

teaching methods**Knowledge - the following training methods are used to achieve the required knowledge:**

Lecture
 Seminar
 Task-based study method

Textual studies
 Skills demonstration
 Project-based instruction
 Individual study
 Students' portfolio

Skills - the following training methods are used to achieve the required skills:

Lecture
 Seminar
 Task-based study method
 Textual studies
 Skills demonstration
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 Students' portfolio

Competences - the following training methods are used to achieve the required competences:

Skills demonstration
 Project-based instruction
 Students' portfolio

learning outcomes

Knowledge - knowledge resulting from the course:

to enumerate and describe key studies and requisites corresponding with the topic of quantitative research
 to describe and interpret theoretical approaches used during quantitative research
 to describe and interpret methods used during quantitative research

Skills - skills resulting from the course:

to sort key knowledge resulting from quantitative research
 to demonstrate and apply selected research methods used during quantitative research
 to critically evaluate the acquired knowledge

Competences - competences resulting from the course:

N/A
 N/A
 N/A

Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Sociology	Bachelor	Full-time	Společnost a politika	1	23-1,2	2023	Metodologický blok	B	3	ZS
Sociology	Bachelor	Full-time	Společnost a politika	1	23-1,2	2023	Metodologický blok	B	2	LS