

COURSE SYLLABUS

Analytical Methods for Economic and Financial Analysis, 7.5 credits

Analytical Methods for Economic and Financial Analysis, 7,5 högskolepoäng

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|---------------|---|----------------------|--------------------|
| Course Code: | FSSS23 | Education Cycle: | Second-cycle level |
| Confirmed by: | Council for Undergraduate and Masters Education Jan 4, 2013 | Disciplinary domain: | Technology |
| Revised by: | Council for Undergraduate and Masters Education Oct 22, 2014 | Subject group: | ST1 |
| Valid From: | Jan 19, 2015 | Specialised in: | A1F |
| Version: | 3 | Main field of study: | Statistics |

Intended Learning Outcomes (ILO)

On completion of the course the students will be able to:

Knowledge and understanding

- discuss what problems arise with various model misspecifications.
- demonstrate understanding of matrix algebra representations for statistical models.
- Interpret results from various advanced statistical techniques used in economics and finance, including those appropriate for analyzing panel data models, qualitative response models, and various time series models.

Skills and abilities

- determine when a model is misspecified and be able to make the appropriate adjustments.
- Select the most proper model and estimation method for an empirical study under consideration.

Judgement and approach

- present results in a way that avoids possible bias arising from the researcher.

Contents

Advanced statistical techniques are covered in this course, especially those relevant for financial analysis and for microeconomic and trade analysis. The content of the course includes panel data regression models, and qualitative response models, and various time series methodologies.

Type of instruction

Teaching is done through a combination of lectures and hands-on lab sessions. A large part of the course consists of computer labs using an econometric software package. An important element of the course is to prepare the student for writing master theses in Economics, Financial Economics, or Statistics.

The teaching is conducted in English.

Prerequisites

Bachelor's Degree in Business or Economics equal to 180 credits including Business Statistics 2, 7.5

credits or Econometrics 1, 7.5 credits; and Mathematical Methods for Economic and Financial Analysis, 7.5 credits (or the equivalent).

Examination and grades

The course is graded A, B, C, D, E, FX or F.

The ILOs within knowledge and understanding will be examined through a written exam and written assignments while the ILO's within Skills and abilities and Judgment and approach will be examined through written assignments.

Registration of examination:

| Name of the Test | Value | Grading |
|--------------------------|-------------|----------------|
| Examination ¹ | 6 credits | A/B/C/D/E/FX/F |
| Assignments | 1.5 credits | U/G |

¹ Determines the final grade of the course, which is issued only when all course units have been passed.

Course evaluation

It is the responsibility of the examiner to ensure that each course is evaluated. At the outset of the course, the programme evaluators in the course must be contacted. In the middle of the course, the examiner should meet the programme evaluators to identify strengths/weaknesses in the first half of the course.

At the end of the course, the examiner should remind students to fill in the survey. The examiner should also call a meeting with the programme evaluators to debrief the course, based on course evaluation data and comments. The next time the course runs, students should be informed of any measures taken to improve the course based on the previous course evaluations.

At the end of each study period, JIBS' Director of Quality and Accreditation crafts a "Course Evaluation Quarter Report", presenting the quantitative results from course evaluation surveys. The Associate Dean of Education, The Associate Deans of Faculty, Programme Directors, and JSA President and Quality receive the report.

Other information

Academic integrity

JIBS students are expected to maintain a strong academic integrity. This implies to behave within the boundaries of academic rules and expectations relating to all types of teaching and examination.

Copying someone else's work is a particularly serious offence and can lead to disciplinary action. When you copy someone else's work, you are plagiarising. You must not copy sections of work (such as paragraphs, diagrams, tables and words) from any other person, including another student or any other author. Cutting and pasting is a clear example of plagiarism. There is a workshop and online resources to assist you in not plagiarising called the Interactive Anti-Plagiarism Guide.

Other forms of breaking academic integrity include (but are not limited to) adding your name to a project you did not work on (or allowing someone to add their name), cheating on an examination, helping other students to cheat and submitting other students work as your own, and using non-allowed electronic equipment during an examination. All of these make you liable to disciplinary action.

Course literature

Compulsory literature

Gujarati, Damodar N and Porter, Dawn C (2009) Basic Econometrics 5th edition, McGraw-Hill Book Company [ISBN: 978-007-127625-2], or later edition.