CERGE-EI

Charles University in Prague
Center for Economic Research and Graduate Education
and
the Economics Institute of the Academy of Sciences of the Czech Republic

Course Book for the Academic Year 2015-2016

Spring Semester

PhD Study Affairs Office

Prague, December 2015

Printed version of this Course Book is subject to possible updates available at https://iweb.cERGE-EI.cz/phd/prog_details/coursebook/
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I. THE STRUCTURE OF PH.D. STUDIES IN ECONOMICS AT CERGE

The Center for Economic Research and Graduate Education (CERGE) is a research and educational institute of Charles University. In close cooperation with the Economics Institute (EI) of the Academy of Sciences of the Czech Republic, CERGE offers a Ph.D. program in Economics, accredited by the Ministry of Education, Youth and Sport of the Czech Republic. Economic research is an integral part of CERGE activities.

A. Contents and Organization of Graduate Study at CERGE

The basic mission of CERGE is to perform graduate studies in Economics and to train future university faculty and researchers and public administration representatives. The main idea of establishing the doctoral program curriculum is to transfer the modern Western system of Ph.D. study in Economics, as it is applied in the United States and some Western European countries, to the local environment and incorporate it into the structure of Czech university education within Charles University. The program offers economic education at a level comparable with world standards directly at Charles University, without the necessity of more expensive study abroad. Besides this fact, the best students may be offered the opportunity to visit (for up to one academic year) an appropriate university in the United States or Western Europe. This experience may enlarge their scope of knowledge significantly.

During the first two years of study courses are taught by the local and visiting faculty. Studies are conducted entirely in English. The duration of the doctoral study is four years. The first two years offer primarily systematic knowledge of theory; for the latter two years the students work on their dissertation. The transfer from study to independent research work is gradual and begins during the second year of study.

Further details on the program can be found in the handbook for graduate students.

B. Core Study – The First Two Years

In the first year of study the students follow a common curriculum designed to provide a strong foundation in Microeconomic Theory, Macroeconomic Theory, Statistics and Econometrics, and Academic Writing. This curriculum is standard for the PhD study in Economics. The study is divided into three semesters: the fall semester (FS), the spring semester (SS), and the summer semester (SuS). In view of the fact that many newly recruited students do not have an extensive background in modern Economics equivalent to "western" standards, and also that their knowledge of Mathematics and English are frequently at different levels, a preparatory semester is organized for potential students. It allows CERGE to provide the students with some basic tools as an introduction to the program and to achieve a standard level of competence.

The second year of formal study at CERGE provides students with the opportunity to investigate more specific fields of interest. Several courses are offered each of the two semesters, and the second year students must enroll for a minimum of three, plus a course in English. The students participate in a seminar series and are now expected to begin their own research.

Having completed both the first and second years, students must pass a General (comprehensive) examination. After the first year, the students must pass Microeconomic Theory, Macroeconomic Theory, and Econometrics; after the second year they must show proficiency in at least two specialized fields by passing General (field) exams in their chosen areas of interest.

During the first two years of study the students do not have a special supervisor; rather, they rely on the advice of the Deputy Director of Graduate Studies, who is also one of the CERGE faculty members. The program and organization of graduate study is regulated by a CERGE's Graduate Council (GC).
C. Specialized Study – Third and Fourth Years

During the spring semester of the second year and the fall semester of the third year, the students have to choose the topic of their dissertations. A tentative chair as a supervisor is then assigned. By the middle of the third year (at the latest), they formulate a thesis proposal and public defense is required together with state doctoral examination. For students who passed all General examinations with distinction, the main importance will be placed on the defense of the thesis proposal. Those with less than distinctive examination results can also expect additional detailed questions from respective fields. After having successfully defended the proposal, a three-member dissertation committee is appointed which guides and supervises the study and research work.

Under the guidance of this committee, the student works on his or her dissertation. In the fourth year the students present their third year work at the Dissertation workshop and prepare for the defense of the dissertation. The study is concluded by the public defense of the doctoral dissertation.

D. Study Program

Here we present the courses designed for the preparatory semester, the first, second and third year of study. (One lecture/exercise unit is 45 minutes long.)

Preparatory semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>(Lecture hours / exercise hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Macroeconomics 0</td>
<td>4/2, Exam</td>
</tr>
<tr>
<td>Microeconomics 0</td>
<td>4/2, Exam</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4/2, Exam</td>
</tr>
</tbody>
</table>

Notes: Upon completion of the preparatory semester, the final selection of students is made to enter the doctoral program in the fall, based on final exam results.
First year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microeconomics I, II, III</td>
<td>4/2, Exam</td>
<td>4/2, Exam</td>
<td>4/2, Exam</td>
</tr>
<tr>
<td>Macroeconomics I, II, III</td>
<td>4/2, Exam</td>
<td>4/2, Exam</td>
<td>4/2, Exam</td>
</tr>
<tr>
<td>Statistics / Econometrics I, II</td>
<td>4/2, Exam</td>
<td>4/2, Exam</td>
<td>4/2, Exam</td>
</tr>
<tr>
<td>Academic Writing I</td>
<td>---</td>
<td>4/0 Credit</td>
<td>---</td>
</tr>
</tbody>
</table>

Notes: After completing the first year, each student must pass the General examination in the fields of Microeconomics, Macroeconomics and Econometrics.

Second Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross-Sectional Econometrics I, II</td>
<td>4/2, Exam</td>
<td>4/2, Exam</td>
<td>---</td>
</tr>
<tr>
<td>Energy Economics</td>
<td>4/2, Exam</td>
<td>---</td>
<td>---</td>
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<tr>
<td>Experimental Economics</td>
<td>---</td>
<td>4/2, Exam</td>
<td>---</td>
</tr>
<tr>
<td>Financial Markets I, II</td>
<td>4/2, Exam</td>
<td>4/2, Exam</td>
<td>---</td>
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<tr>
<td>Industrial Organization</td>
<td>4/2, Exam</td>
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<td>---</td>
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<tr>
<td>Advanced Game Theory</td>
<td>---</td>
<td>4/2, Exam</td>
<td>---</td>
</tr>
<tr>
<td>Labor Economics I, II</td>
<td>4/2, Exam</td>
<td>4/2, Exam</td>
<td>---</td>
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<tr>
<td>Macro Topics</td>
<td>4/2, Exam</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Time Series</td>
<td>---</td>
<td>4/2, Exam</td>
<td>---</td>
</tr>
<tr>
<td>Academic Writing II</td>
<td>4/0, Credit</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Research Methodology Seminar</td>
<td>Mandatory</td>
<td>Mandatory</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Combined Skills I</td>
<td>---</td>
<td>4/0, Credit</td>
<td>---</td>
</tr>
<tr>
<td>Research Seminars</td>
<td>0/2, Credit</td>
<td>0/2, Credit</td>
<td>---</td>
</tr>
<tr>
<td>Directed Research</td>
<td>---</td>
<td>---</td>
<td>0/2, Credit</td>
</tr>
<tr>
<td>Combined Skills II – M.A.</td>
<td>---</td>
<td>---</td>
<td>0/2, Credit</td>
</tr>
</tbody>
</table>

Notes: * Second-year students choose at least three (exam-ended) courses per semester. The courses cannot be from the same field. Courses offered may differ slightly from year to year, depending on the faculty in residence.
* The credits for English courses, the Research Seminars and Directed Research are mandatory.
* The credit for Research Methodology Seminar will be awarded based on individual consultations with the instructors and based on individual written work.
* After completing the second year each student must pass General exam in two fields. Upon agreement of CERGE, a student may complete part of his/her study at another university - this is valid not only for individual courses, but also for a whole study year.
* Topic courses are one semester courses not forming two semester sequence and do not cover comprehensively all material needed for Field General Exam.
* Combined Skills II – M.A. is for M.A. students only, a paper or report appropriate for the MA-degree writing requirement.

Third year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined Skills II – Ph.D.</td>
<td>Credit</td>
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</tr>
</tbody>
</table>

Notes: Normally, students must pass the 2-year MA program first as a pre-requisite for registering in CSI/Ph.D.
II. SYLLABI OF THE SPRING SEMESTER COURSES

A. First year courses

MICROECONOMICS II

| Lecturers:   | Jan Zápal |
|             | (jzmicro@cerge-ei.cz, office 307, phone 107) |
| Teaching assistants: | Gega Todua |
|              | (Gega.Todua@cerge-ei.cz) |
|              | Dali Tsintskiladze |
|              | (Dali.Tsintskiladze@cerge-ei.cz) |
| Office hours: | see the office door |

Course information

This is the second course in the microeconomics sequence. The objective of the sequence in general and of the course in particular is to i) provide students with firm knowledge of the basic microeconomic theory, ii) provide students with grasp of relevant (micro)economic concepts on intuitive and formal level and iii) equip students with tools and techniques allowing them to conduct their own independent research.

The course is based on 24 90-minutes lectures and 12 90-minutes classes (exercise sessions). Two lectures and one class take place in any given week.

12 weekly problem sets are integral part of the course. Students are required to complete one problem set per week and hand it in before each class (details to be specified). The classes will be devoted to the discussion of problem set solutions. Team-work on the problem sets is encouraged. Free-riding on the effort of team-mates is not … work on the problem sets is essential for grasping the course material and for exam preparation.

Course outline

1. General equilibrium under certainty
2. General equilibrium under uncertainty
3. Game theory

Requirements and grading

Grades will be based on final exam only. The final exam will take place in week 13 (details to be specified). There will be midterm exam in week 6 or 7 (details to be specified) with structure similar to
the final exam and hence indicative of students’ standing in the course. In addition students are required to hand in 12 weekly problem sets.

**Readings**

**Principal textbooks:**


**Reference (not required) books:**

**Microeconomic:**


**Mathematical:**


**Game theory:**

MACROECONOMICS II

Lecturer:
Byeongju Jeong
(Byeongju.Jeong@cerge-ei.cz, office 321, phone 233)

Teaching assistants:
Taras Hrendash
(Taras.Hrendash@cerge-ei.cz)

Office hours:
TBA

Course information
We will study some macro topics. Listed below are the main references in the order of discussion. You are strongly advised to read the papers in advance of lectures since the lectures will build on the basic understanding of the papers.

Requirements and grading
The grade is based on the midterm exam (one-third), the final exam (one-third) and occasional home problems (one-third).

Readings
ECONOMETRICS I

Lecturers:
Jan Hanousek
(Jan.Hanousek@cerge-ei.cz, office 312, phone 119)

Teaching assistants:
Olga Bychkova
(Olga.Bychkova@cerge-ei.cz)
Peter štefko
(Peter.Stefko@cerge-ei.cz)

Office hours:
regular – Wednesday 14:00-15:00 and by appointment

Class website:

Course information

This is a first course in econometrics. The objective is to give students an opportunity to understand econometric theory and to explore a variety of useful econometric applications, including data management. Obviously, it builds on the material covered in Statistics and extends it into regression-type models. Students will make regular use of the microcomputer. They will use STATA and TSP (or another econometric packet) for certain problem sets. Some supplementary exercises – data management (using databases [MS Access], using spreadsheets [MS Excel], or and STATA), using econometric software (short introduction to STATA and TSP), will be prepared. If required by students, optional computer sessions will be provided. As it is standard for introductory econometrics, the core of the course will deal with regression models and their variations. We will spend several lectures on testing linear and non-linear hypotheses, identification issues and appropriate use of instrumental variable estimation. If time permits, we will also cover special topics like bootstrapping, and introduction into time series and linear regression model with panel data.

Requirements and grading:

Problem Sets 30%, Midterm 30%, Final 40%.

Course outline:

1. Background/Introduction
   ✓ Review of estimation and testing theory
   ✓ Introduction to linear regression model (via scale and location problem)

2. Single-equation linear regression model
   ✓ Specification, assumptions, identification
   ✓ OLS estimator (with small- and large-sample inference)
   ✓ Estimation and testing
   ✓ Violations of basic assumptions: Heteroskedasticity and autocorrelation
✓ Specification testing, data problems, etc.
✓ MLE estimation and related testing procedures (LM, LR, W), testing of nonlinear hypotheses

3. Single-equation linear regression model with an endogenous RHS variables: instrumental variable estimation
✓ Identification
✓ IV estimator, 2SLS, GMM
✓ Estimation and testing in presence of heteroskedasticity and autocorrelation
✓ Testing for endogeneity, over-identifying restrictions, etc.

4. Simultaneous Equation Models
✓ Introduction: usual identification problems and their solutions
✓ Identification by exclusion restrictions, cross-equation restrictions, etc.
✓ Estimation of the reduced form equation
✓ Single equation methods: ILS, 2SLS, MLE, selection of instruments, etc.
✓ Full system methods: 3SLS, FIML
✓ Efficiency and consistency; testing of endogeneity and specification

5. Panel Data – combining time series and cross-section
✓ Pooled OLS
✓ Fixed effects model, random effects model, Hausman test, etc.
✓ Estimating and testing: Heteroskedasticity and serial correlation

6. Introduction to time series
✓ Specific features of time series data
✓ Autoregression, stationarity, invertibility, AR(p), MA(q), ARMA(p,q)
✓ Integrated processes, test of unit roots, cointegrated analysis

Readings

As the main text we will use: William, H. Greene, Econometric Analysis, Second (and up) Edition, New York, Macmillan, 1993-2012 (G) Any good introductory econometric book (with matrix algebra), however, will do about the same job. Additional materials will be provided during the course and will be available on-line on course web-page (above)

Examples of additional references (check the library for more options):

ACADEMIC WRITING I

Lecturers:

Andrea Downing
(Andrea.Downing@cerge-ei.cz, office 317, phone 254)
Deborah Nováková
(Deborah.Novakova@cerge-ei.cz; office 318, phone 197)
Paul Whitaker
(Paul.Whitaker@cerge-ei.cz; office 315, phone 259)

Office hours:
TBA

Course information

This course is the first step into PhD level writing in Economics. We focus on ways that writing at this level differs from other types of writing. Students will practice their critical/analytical reading and writing skills in formal, post-graduate level English. There is an emphasis on accurate and effective citation and referencing, and the types of formal language used in professional texts in the field. The course includes lectures, peer review during the writing process, and scheduled mandatory individual consultations with the instructor. Extensive written feedback on the work is given with a view to assist in future writing.

The final task will be a written comparative critique of two related articles in the field of Economics. Students will choose articles/topics that reflect their personal interests in the field.

The skills practiced on this course are designed to support student writing throughout their first two years of study and beyond, when they must write a range of professional level papers.

Requirements and grading

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary of an article</td>
<td>10%</td>
</tr>
<tr>
<td>Annotated bibliography</td>
<td>20%</td>
</tr>
<tr>
<td>Peer analysis</td>
<td>20%</td>
</tr>
<tr>
<td>Analytical summary</td>
<td>50%</td>
</tr>
</tbody>
</table>

100% attendance is mandatory. Any necessary absences must be discussed with your instructor, preferably in advance, and any work missed must be made up. Missing more than two classes will impact your grade for the course. We do not accept late submissions of any task, unless the student has documented an official illness or other issue with the SAO. Any late submission will be graded 0 automatically.
B. Second year courses

CROSS-SECTIONAL ECONOMETRICS II

Lecturer:

Nikolas Mittag
(Nikolas.Mittag@cerge-ei.cz; office 304, phone 128)

Teaching assistants:
TBA

Office hours:
TBA

Course information

This class continues Cross-Sectional Econometrics I. The main topics of the class are econometric approaches to the problem of sample selection and (individual) heterogeneity. While the methods apply more generally, the class will focus on methods to address the selection problem from the program evaluation literature and place particular emphasis on heterogeneity in experiments in the second part of the course.

Course outline

1. Sample selection and its consequences for econometric evaluations: Theory and Evidence
2. Methods to address sample selection
   a. Selection on observables only:
      i. Models of selection and control function approaches
      ii. Re-weighting
      iii. Matching
   b. Allowing for selection on unobservables
      i. Experiments
      ii. Quasi-Experiments
3. Heterogeneity
   a. Implications
      i. Selection on treatment effects and the correlated random coefficient model
      ii. Treatment effect parameters
      iii. IV, heterogeneity and local average treatment effects
   b. Methods for Heterogeneity
      i. Testing for heterogeneous effects
      ii. Effects on the distribution of outcomes
      iii. The distribution of treatment effects

Requirements and grading

50 % problem sets and course project, 50 % final.
Readings

The class mainly relies on a reading list and articles that will be posted on CMS by the beginning of the term. The following books cover a few of the topics and provide good reviews of basic issues:


ADVANCED GAME THEORY

<table>
<thead>
<tr>
<th>Lecturer:</th>
<th>Avner Shaked</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(<a href="mailto:avner.shaked@gmail.com">avner.shaked@gmail.com</a>; office 113, phone 162)</td>
</tr>
<tr>
<td>Krešimir Žigić</td>
<td>(<a href="mailto:Kresimir.Zigic@cerge-ei.cz">Kresimir.Zigic@cerge-ei.cz</a>; office 306, phone 245)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Teaching assistant:</th>
<th>Ludmila Matysková</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(<a href="mailto:Ludmila.Matyskova@cerge-ei.cz">Ludmila.Matyskova@cerge-ei.cz</a>)</td>
</tr>
</tbody>
</table>

| Office hours:       | TBA |

Course information

This course is in part the continuation of the Industrial Organization (IO) sequence from the Fall 2015 and in part on the issues from the advanced game theory. One of the goals is to further familiarize students with the major topics in IO, notably core oligopoly theory and in parallel, to illustrate methodological tools for conducting research. The main focus will be on theoretical issues. We will cover in the sequence several subjects including, but not limited to strategic oligopoly theory, dynamic games, bargaining, implications of asymmetric and/or incomplete information, mechanism design and auction theory. The course will follow various field articles.
Requirements and grading

The course will be accompanied by exercise sessions. 50% of the course grade will be based on a final exam, 40% on a midterm exam and 10% on the presentation of a selected article (either one of the papers on the regular syllabus that we haven't covered in class, or of your choice – permission required). The presentation shall involve a critical analysis of the model, its assumptions, the findings and the possible extensions. This requires an extensive knowledge of the related literature.

Readings list

Principal textbooks


Recommended and supplementary textbooks

✓ Wolfstetter, G. Elmar Topics in Microeconomics, Cambridge, 2002

Recommended web site
INTERTIC: [www.intertic.org](http://www.intertic.org)

Topics & Readings (this is a tentative outline of what we plan to cover in the Spring semester)

1. Models of Oligopolistic Competition (cont.)
   ✓ Etro, 2007; Chapters, 1-3
   ✓ Tirole, 1989; Sections 5.1, 5.2, 5.4, 8.2.1.
   ✓ MWG, 1995; Section 12.C.
   ✓ Belleflamme and Peitz, 2010, Chapters, 3-4
2. Oligopoly Applications

2.1 Cournot Equilibrium, Evolutionary Processes
- Wolfstetter, E. (2002), chapter 3

2.2 Entry Deterrence/Accommodation
- Etro, 2007; Chapter 4
- Tirole, 1989; Sections, 8.2.1, 8.2.2.1, 8.3, 8.4.
- MWG, 1995. Section 12-App.B.
- Belleflamme and Peitz, 2010, Chapter, 16

2.3 Innovation and R&D
- Etro, 2007, Chapter 4
- Belleflamme and Peitz, 2010, Chapter, 18

3. Chain Store Paradox
4. Search Models

5. Bargaining and markets

6. Incomplete Monitoring

7. Boundedly Rational Consumers

8. Information in Markets
8.1 Auctions
8.2 Signalling
8.3 Information Cascades
   ✓ Vives, 2010
   ✓ Gibbons, 1992
   ✓ Wolfstetter, 2002
LABOR ECONOMICS II

Lecturer:
Daniel Műnich
(Daniel.Munich@cerge-ei.cz; office 303, phone 175)

Office hours:
Tue & Thu 14:00-16:00 (and anytime if doors are open)

Mariola Pytliková
(jola.pytlikova@gmail.com)

Office hours:
by appointment

Teaching assistant:
TBA

Course information

The aim is to introduce students to the economic analysis of the labor market and provide them with fundamentals within the labor economics. Among others we will study important contemporary economic issues such as determinants and selectivity in migration, consequences of international migration and ethnic diversity, sources of wage inequality, the labor market impacts of taxation, minimum wage legislation and unemployment benefits, the impact of different forms of human capital on labor market outcomes, and workers’ discrimination. The course will combine theoretical concepts, empirical evidence and empirical approaches including use of econometrics tools in labor market economics. Critical discussions about implications for public policy designs and policy experience will be encouraged.

The course has three major goals (i) to guide students through current theoretical and empirical understanding of major issues in the broad field of labor economics, (ii) to guide student’s to own empirical research, (iii) to make students familiar with common research resources, standards of practice and approaches in the field. Throughout the topics, references will be made to empirical approaches (data and techniques econometric / identification strategies) and actual policies.

As for learning outcomes, first, the students will gain methodological skills. By studying the link between the economic theory and empirical testing, and by applying empirical research, the students will gain a critical understanding of how economic facts become established and how the policy recommendations are being formed. This will teach the students about the use of empirical testing and evidence in discussions of different economic issues. Second, the students will learn how to work with data and how to conduct an empirical research. Thirdly, the students by writing the essay with critical literature review will learn to write in a way that integrates the economic theory, the findings in the empirical literature and discussion of important economic policy and social issues. Finally, the course will train the students further in their oral presentation skills, since there will be presentations of students.
Course outline

LABOR SUPPLY
- Labor supply over business and life-cycle (DM)
- Family and work; Family policies (MP)
- Active labour market policies; Unemployment benefits (MP)
- Retirement and aging; Early retirement plans (MP)

MODELS OF WAGE STRUCTURES
- Pay & productivity-wage determination within the firm, incentive pay, efficiency wages (MP)
- Changes in wage structures, income inequality (MP)
- Social mobility (MP)
- Job turnover, matching and search, unemployment duration (DM)

ECONOMICS OF MIGRATION
- Economics of migration, introduction, trends and concepts (MP)
- Determinants of migration (MP)
- Selectivity in migration, models of migration and empirical evidence (MP)
- Immigrant performance and integration; the second generation (MP)
- Immigrants and innovation; International migration and globalization (MP)
- Impacts of immigration (MP)
- Immigration policy (MP)
- Diversity - Impacts of workforce diversity on firms and economies (MP)
- Emigration and source countries; Brain drain and brain gain; Remittances (MP)

OTHER SPECIFIC ISSUES
- Effects of international trade and FDI, Production sharing (MP)
- Peer Effects (MP)

Requirements and grading

Grades will be based on student’s performance in the final exam (55%), a term paper i.e. a written assignment based on combination of critical literature review and descriptive evidence (20%) and presentation of the term paper at mini-conference (5%) and an empirical assignment (20%).

The aim of the term paper is to make students familiar with writing reports based on a carefully conducted academic literature review and descriptive statistical analyses on a topic of their own choice. The aim of the term paper is also to improve students’ experience with working in (international) teams. The term paper is expected to be written by a team of two (max three) students. Students will present their essays at the “mini-conference”, during which they will collect comments from teachers and other fellow students and discussants assigned to each term paper. The comments are aimed to improve the student final term paper, they are going be graded upon.

The aim empirical assignments is to make students familiar with real empirical econometric analysis (using statistical package Stata) using real empirical data and estimating selected models. Exercise sessions will be scheduled irregularly and will focus mainly on empirical research practices (data work, statistics, and econometrics) related to the syllabus.

Detailed information, announcements, lecture materials (readings, links, lecture handouts, etc.) and details about assignments and exercise sessions will be made available in advance via course web page.

Readings

Selected chapters from
HBLE (Handbook of Labor Economics, Vol. 1, 2, 3, 4A, 4B, Edited by O. Ashenfelter, R. Layard and D. Card, Elsevier) at http://econpapers.repec.org/bookchap/eeelabhes/


Auxiliary reference texts

- Econometrics Analysis, [G], William H. Greene.
- A Guide to Econometrics, Peter Kennedy.
- Labor Economics, George Borjas.
- Filer et al., The Economics of Work and Pay.

Additional readings (papers) will be provided for various subtopics before and after particular lectures.

FINANCIAL MARKETS II

Lecturer:
Fabio Michelucci
(fabiomichelucci@gmail.com; office 324, phone 117)

Teaching assistant:
TBA

Office hours:
TBA

Course information

The course will be based on some selective chapters from Jean Tirole’s Theory of Corporate Finance. The objective of the course is to provide a thorough coverage of some of the core problems in Corporate Finance and Corporate Governance and to illustrate the modeling tools that are typically used in the literature.

Even though the textbook will guide us through the literature, the course will be also be based on papers. Each student is expected to read the material that will be proposed before each class and to contribute to the discussion. Students will receive homework that will be solved during TA class, but
will not be marked. They will also be required to present a paper.

Course outline

The plan is to cover roughly one chapter of Tirole’s book per week and integrate the material in the book with some key related researcher papers.

Requirements and Grading

Final Exam: 75%
Presentation 25%

Please note that depending on the number of students enrolled, it might not be possible to run presentations. In that case, the exam would count for 100%.

Problem sets will be assigned during the course and students are expected to solve them before class. However, they will not count for the determination of the final mark.

Reading list

Main Textbook: Tirole, The Theory of Corporate Finance

Useful books:

- Ross, Westerfield, and Jordan, Fundamentals of Corporate Finance (undergraduate level book to familiarize with the main concepts in Corporate Finance).
- De Matos, Theoretical Foundations of Corporate Finance (Only covers some selected topics).
- Bolton and Dewatripont, Contract Theory; Laffont and Martimort, The Theory of Incentives; Salanie, The Economics of Contracts; (these three books are useful for a better understanding of principal-agent problems. The third one is more introductory).
- Freixas and Rochet, Microeconomics of Banking (for a more detailed expositions of the literature on banking).
- Hart, Firms, Contracts and Financial Structure (very good for the Property Right Approach to Corporate Finance).
EXPERIMENTAL ECONOMICS

Lecturer:
Michal Bauer
(michal.bauer@cerge-ei.cz, office 301, phone 130)
Silvester van Koten
(slvstr@gmail.com)

Teaching assistant:
Danijela Vuletić
(danijela.vuletic@cerge-ei.cz)

Office hours:
TBA

Course information

This is a graduate-level topics course in Experimental Economics. The aim is to expose students to multiple potential research topics and related literature. Hands-on participation in in-class experiments will be an integral part of the course. Basic background in Microeconomic Theory and Game Theory is assumed. The first part of the course will be based on lab experiments and the second part will cover field experiments.

Course outline

Part 1 (Lab experiments):

Note: due to the time constraint, we will cover only selected topics. During the first class, we will discuss which topics to cover.

1. Introduction and Methodology
2. Other-regarding Preferences
   - Dictator game
   - Ultimatum game
   - Understanding other-regarding preferences
3. Trust, Reciprocity and Principal-Agent Games
   - Trust game
   - Reciprocity game
4. Cooperation and public goods
   - Prisoners' Dilemma
   - Voluntary contributions game
   - Voluntary contributions with punishments
5. Computerized experiments
   - Tools for creating experiments
   - ZTREE
- OTREE & Django/Python framework

6. Why Industrial Organization experiments?

7. IO and lab experiments
- Forward markets and competition
- Forward markets and forward premia
- Regulation and self-regulation

Part 2 (Field experiments):

01. Reciprocity (gift-exchange).
02. Incentives and economic behavior.
03. Social preferences: universal or responding to circumstances?
04. Formation of social preferences during childhood and adolescence.
05. Self-control, status quo bias and deadlines.
06. Commitment devices.
07. Determinants of time discounting.
08. Discrimination: preference-based or statistical?
09. Discrimination in social psychology.
10. Peer effects.
11. The role of prices in social programs.

Requirements and grading

Grades will be based on student’s performance in two problem sets handed to the students during the course and a term paper. There will be neither midterm nor final exams. The grading scheme is as follows:

<table>
<thead>
<tr>
<th>Problem Set 1</th>
<th>10%</th>
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</thead>
<tbody>
<tr>
<td>Problem Set 2</td>
<td>10%</td>
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<tr>
<td>Term paper</td>
<td>80%</td>
</tr>
</tbody>
</table>

Reading list

Part 1 (Lab experiments)

1. Introduction and Methodology
   ✓ "Holt, chapter 1.

2. Dictator, Ultimatum Games and Other-regarding preferences
• "Holt, chapter 12

3. Trust, Reciprocity and Principal-Agent Games
• "Holt, chapter 13.

4. Cooperation
• "Holt, chapter 3.1-2., chapters 14 and 15.


5. Computerized experiments


*Hourieh, A. 2008. Learning Website Development with Django


Python 3.4.3 documentation. Available on https://docs.python.org/3/

*Ztree documentation and support. Available on http://www.ztree.uzh.ch/support.html

6. Why Industrial Organization experiments?


*Holt, Chap 2


7. IO and lab experiments


Python 3.4.3 documentation. Available on https://docs.python.org/3/


Part 2 (Field experiments)

1. Reciprocity (gift-exchange)

2. Incentives and economic behavior

3. Social preferences: universal or responding to circumstances?
   - *Bauer, Michal, Alessandra Cassar, and J. Chytilová. 2010. “War’s enduring effects on egalitarian motivations and in-group biases.” mimeo.

4. Roots of social preferences: developmental psychology

5. Self-control, status quo bias and deadlines

6. Commitment devices

7. Time discounting
8. Discrimination: preference-based or statistical?
- Bauer, Fiala and Levely (work in progress): Trust and re-integration of former child soldiers in Northern Uganda.
- Ahmed, A. M, L. Andersson, and M. Hammarstedt. n.d. “Can discrimination in the housing market be reduced by increasing the information about the applicants?.”

9. Discrimination in social psychology

10. Peer effects

11. The role of prices in social programs
TIME SERIES ANALYSIS

Lecturer:
Michal Pakoš
(Michal.Pakos@cerge-ei.cz; office 327, phone 121)

Teaching assistant:
Mykola Babiak
(mykola.babiak@cerge-ei.cz)

Office hours:
TBA

Course information
Time series consist of values of a variable recorded in an order over a period of time. Such data arise in just about every area of economics and finance. What makes time series data special is the presence of dependence between observations in a series, and the fact that usually only one observation is made at any given point in time. This means that standard statistical methods are not appropriate, and special methods for statistical analysis are needed.

Course outline
Difference Equations and Lag Operators
Projection Theorem
Stationary ARMA Processes
Wold Decomposition Theorem
Forecasting
Maximum Likelihood Estimation (MLE)
Spectral Analysis
Asymptotic Distribution Theory
Vector Autoregressions (VAR)
Kalman and Wonham Filters
Generalized Method of Moments (GMM)
Nonstationary Time Series (deterministic and stochastic time trends, co-integration)

Requirements and grading
Grades based on student’s performance in midterm exam and final exam as well as regular homeworks. The grading schemes is
– Midterm exam 40%
– Final exam 40%
– Homeworks 20%

**Reading list**


**COMBINED SKILLS I**

<table>
<thead>
<tr>
<th>Lecturers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrea Downing</td>
</tr>
<tr>
<td>(<a href="mailto:Andrea.Downing@cerge-ei.cz">Andrea.Downing@cerge-ei.cz</a>; office 317, phone 254)</td>
</tr>
<tr>
<td>Deborah Nováková</td>
</tr>
<tr>
<td>(<a href="mailto:deborah.novakova@cerge-ei.cz">deborah.novakova@cerge-ei.cz</a>; office 318, phone 197)</td>
</tr>
<tr>
<td>Paul Whitaker</td>
</tr>
<tr>
<td>(<a href="mailto:Paul.Whitaker@cerge-ei.cz">Paul.Whitaker@cerge-ei.cz</a>; office 315, phone 259)</td>
</tr>
<tr>
<td><strong>Office hours:</strong></td>
</tr>
<tr>
<td>TBA</td>
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</tbody>
</table>

**Course information**

Combined Skills I combines development of oral presentation skills with production of a research-related written paper, with preparation for writing MA or DPW papers in mind (though of course your project may change before then). Projects are usually an initial research proposal or an extension of the position paper from AW2, though other options are possible. Each individual project will be agreed between the student and the instructor early in the course.

**Requirements & Grading**

CV and Bio 10%
Presentation Skills 45%
Written Paper 45%

100% attendance is mandatory. Any necessary absences must be discussed with your instructor, preferably in advance, and any work missed must be made up. Missing more than two classes will impact your grade for the course. Please note that a ‘class’ means 8.30-10.00 or 10.30-12.00. Missing 8.30-12.00 once equals missing TWO classes. We do not accept late submissions of any task, unless the student has documented an official illness or other issue with the SAO. Any late submission will be graded 0 automatically.

When relevant, updates that supersede this hardcopy can be found on the internal pages of the website at: [https://iweb.cerge-ei.cz/phd/prog_details/coursebook/](https://iweb.cerge-ei.cz/phd/prog_details/coursebook/)
III. PROFESSORS AND LECTURERS TEACHING IN THE SPRING SEMESTER 2016

PhDr. Michal Bauer, Ph.D.
Assistant Professor

Email: Michal.Bauer@cerge-ei.cz
Webpage: http://home.cerge-ei.cz/bauer

Michal Bauer is an Assistant Professor at CERGE-EI (under US permanent charter) since September 2010 and a Researcher at the Economics Institute of the Academy of Sciences of the Czech Republic since September 2011. His other affiliations include an Assistant Professor at the Institute of Economic Studies, Charles University in Prague (where he earned his Ph.D. degree in 2009) and IZA Research Fellow. He was a Fulbright visiting scholar at New York University in 2007-8 and a visiting researcher at UC Berkeley in 2015.

Research orientation:
His research interests are in the areas of development microeconomics, experimental economics, and behavioral economics. His recent work focuses on microfinance, conflict and social preferences, discrimination and formation of preferences. He has conducted field experiments on related topics in Uganda, India, the Republic of Georgia, Sierra Leone and the Czech Republic.

Andrea Downing, Ph.D.

Academic Skills Center Lecturer

Email: Andrea.Downing@cerge-ei.cz

Andrea Downing is teaching at CERGE-EI since September 2012. Received her Ph.D. in Economic and Social History from the University of Liverpool, UK in 1998 and M.A. in Research Methods in the Social Sciences from the University of Liverpool, UK in 1993. She worked as a Lecturer at the Metropolitan University in Prague from 2010 to 2012. She was also working as a Teacher Trainer at the Metropolitan University in Prague from 2010 to 2011, where she designed and delivered pedagogic training to aspiring and in-service Czech teachers of English. From September 2004 to June 2005 she was an Associate Professor and a Chair of Foundation Studies at Sur University College in Oman. Her research interests include multiple intelligences and learner autonomy and observing the observer in teaching development.

Research Orientation:
Multiple intelligences and learner autonomy and observing the observer in teaching development.

prof. RNDr. Jan Hanousek, Ph.D.

Citigroup Endowment Professor with Tenure

Email: jan.hanousek@cerge-ei.cz
Web Site: http://home.cerge-ei.cz/hanousek

Research Orientation:
Applied econometrics, applied finance (corporate finance, financial econometrics), banking and finance, econometrics, public finance, and statistics.

Byeongju Jeong, Ph.D.
Mellon Endowment  Associate Professor with Tenure

Email: Byeongju.Jeong@cerge-ei.cz
Webpage: http://home.cerge-ei.cz/bee

Byeongju Jeong is the Mellon Endowment Associate Professor with tenure at CERGE-EI (under US permanent charter) and a member of the Executive and Supervisory Committee of CERGE-EI since 2003. He is also an Assistant Professor at CERGE, Charles University and a Researcher at the Economics Institute of the Academy of Sciences of the Czech Republic (EI) since 1997. He served as the Deputy Director for Graduate Studies at CERGE and EI from 2010 to 2012. Graduated from the University of Texas with a B.A. degree in Economics in 1991. Received a M.A. in Economics from the University of Minnesota in 1994, and a Ph.D. in Economics from the University of Minnesota in 1996. Lecturer at Pennsylvania State University from 1996 to 1997. Visiting professor at Universitat Pompeu Fabra in Barcelona from 2003 to 2004.

Research orientation:
Growth and development, macro labor, international macro.

Fabio Michelucci, Ph.D.
Associate Professor with Tenure

Email: Fabio.Michelucci@cerge-ei.cz
Webpage: http://www.fabiomichelucci.com/

Fabio Michelucci has been an Associate Professor with tenure at CERGE-EI (under US permanent charter) and at CERGE, Charles University since January 2016. He has also been a Researcher at the Economics Institute of the Czech Academy of Sciences since September 2009. He earned his B.A. degree in Economics, summa cum laude (2000), from the University of Florence, Italy; M.Sc. degree in Economics (2001) from Universitat Pompeu Fabra, Spain; Ph.D. degree in Economics (2007) from University College London, United Kingdom. From 2002 until 2006 he worked as a Teaching Assistant at University College London, United Kingdom. In 2006 he also worked as a Researcher (Assegnista di Ricerca) at Bocconi University, Italy. From 2007 to March 2009 he was a Post-doctoral Scholar at the Division of the Humanities and
Social Sciences, California Institute of Technology, USA. Finally, from September 2009 to December 2015 he was Assistant Professor at CERGE-EI. His research has appeared (or is forthcoming) in international journals such as The Economic Journal, Games and Economic Behavior, Journal of Economic Behavior and Organization, Economics Letters, and Review of Economic Design.

Research orientation:
economic theory, industrial organization, mechanism design, auction theory, and experimental economics.

Nikolas Mittag, Ph.D.
Assistant Professor
Email: Nikolas.Mittag@cerge-ei.cz

Nikolas Mittag has been an Assistant Professor at CERGE-EI (under U.S. permanent charter) as of September 2013 and an Assistant Professor at CERGE, Charles University, since July 2013. He has also worked as a Researcher at the Economics Institute of the Academy of Sciences of the Czech Republic from September 2013. He received his B.A. degree in Philosophy & Economics from the University of Bayreuth (2007) and his Ph.D. in Public Policy Studies from the Harris School of Public Policy at the University of Chicago. He was a fellow (Program on Political Institutions) at the Harris School of Public Policy in 2009 and received a dissertation fellowship from the U.S. Census Bureau, USA (2011-2013).

Research orientation:
Applied econometrics, microeconomics, public economics, program evaluation.

doc. Ing. Daniel Münich, Ph.D.
Associate Professor
Email: daniel.munich@cerge-ei.cz
Web Site: http://home.cERGE-ei.cz/munich

Daniel Münich is an Associate Professor at CERGE-EI (under U.S. permanent charter). He is a Docent (Associate Professor) at CERGE, Charles University, since 2006, and a Researcher at the Economics Institute of the Academy of Sciences of the Czech Republic (EI) since 1998. Since September 2015 he has served as Deputy Director for Research of CERGE and EI. Received his Ing. degree in Electrical Engineering in 1991 from the Czech Technical University in Prague, and Ph.D. in Economics in 1998 from CERGE, Charles University. During 1997–1998 a Visiting Scholar at the William Davidson Institute at the University of Michigan Business School and during 1994–1995 at a study stay at the University of Pittsburgh. At CERGE-EI (under US permanent charter) he was Altria Group Associate Professor (Spring 2006 – Spring 2008). Deputy Director for Development and Public Relations (2003–2006) and Deputy Director for Graduate Studies (1999–2002) at CERGE and EI. Research Affiliate of CEPR in London. He served as an advisor to Ministers of Education, Youth and Sport, and of Finances of the Czech Republic (in 2006 and during 1997–1998), an external advisor of the minister of finance of the Czech Republic (1997, 2002–2004), a steering committee member under the auspices of the Czech vice-minister for economy to supervise the national Strategy for Economic Growth (in 2005). Member of an expert team preparing reform of the Czech tertiary
education system (2007–2008). He was a senior advisor to the European Network of Economists of Education (EENEE) (2004–2007), a member of the executive board of the Czech Economic Society (during 2003–2009), a member of the Board of the Sociological Institute of the Czech Academy of Sciences (during 2006–2010). He is a member of the Board of EI (since 1997), a National SYSDEM Correspondent for the EU commission (since 2005), a chair of the governmental Advisory Committee for Social and Human Sciences and a member of Advisory Committee for Evaluation of R&D of the Board for R&D of the Czech government (since 2008), a member of the National Economic Board of the Government (since 2010) and a member of the European Association of Labour Economists (since 2006).

Research Orientation:
Labor economics (empirical issues of unemployment, labor supply and policies, human capital, welfare schemes), economics of education and schooling (public vs. private schools, quality of education, efficiency and equity, selectivity), bibliometric analysis.

Deborah Nováková, M.A.

Head of Academic Skills Center

Email: Deborah.Novakova@cerge-ei.cz

Deborah Nováková has been teaching at CERGE-EI since August 2012. She received her M.A. in TEFL/TESL from the University of Birmingham, UK in 2007. From October 2007 to October 2010 she was working as an Instructor, course coordinator, curriculum developer and a professional development facilitator at Maastricht University Language Centre in Netherlands. She was also at Maastricht University from 2001-2003. From 2003 to 2007 she was working as an Instructor, curriculum developer and an editor at the Southern Alberta Institute of Technology in Calgary, Canada, where she worked on both domestic and international projects.

Research orientation:
Curriculum design, teacher training and professional development, successful intercultural communication in international contexts, student-centred learning approaches and methods, successful team-building in classroom and teaching in team contexts.

Michal Pakoš, Ph.D.

Assistant Professor

Email: Michal.Pakos@cerge-ei.cz
Webpage: http://home.cerge-ei.cz/pakos

Michal Pakoš is an Assistant Professor at CERGE-EI (under US permananet charter) and at CERGE, Charles University since September 2011 and a Researcher at the Economics Institute of the Academy of Sciences of the Czech Republic since August 2009. Earned his his MA. degree in Economics (2000/Hons) from the Central European University, Hungary and his Ph.D. degree in Finance (2005) from the Booth School of Business at the University of Chicago, USA.

Research orientation:
Empirical macroeconomics, asset pricing.
Mariola Pytlíková, Ph.D.

Email: jola.pytlikova@gmail.com

Mariola Pytlíková is a senior researcher at the VSB Technical University Ostrava. Previously she worked as a senior researcher at the Danish Institute of Governmental Research (KORA), and as an assistant professor and postdoctoral researcher at ASB, Aarhus University. She received her PhD in Economics from ASB, Aarhus University in 2006. In the past she has hold visiting stays at Princeton University, University of Illinois at Chicago, University of Modena and Reggio Emilia and Universitat Pompeu Fabra in Barcelona. She is a research fellow at CReAM, IZA and CELSI.

Research orientation:

Mariola’s research interests are in the field of labour economics and industrial relations, in particular topics dealing with causes and consequences of international migration and ethnic labor diversity, wage structures and labour market dynamics, gender differentials on the labour market, and income inequality. She has published in outlets such as the Economic Journal, the European Economic Review, Journal of Population Economics, the Economics of Transition and Labour.

prof. Avner Shaked, Ph.D.

Visiting Professor, Bonn University

Email: shaked@uni-bonn.de


Research orientation:

Bounded rationality, learning theory, evolutionary theory, experimental game theory, theoretical industrial organization, bargaining theory.

doc. Silvester van Koten, Ph.D.

Post-Doctoral Fellow

Email: silvester.vankoten@cerge-ei.cz

https://sites.google.com/site/slvstrnl/
Silvester van Koten is a Jean-Monet Fellow at the Florence School of Regulation and a Post-Doc Fellow at CERGE-EI in Prague. He is a researcher with a special interest in the economics of energy markets, renewables, and regulation. His present research appraises the effectiveness of forward markets to alleviate market power using economics experiments. In his previous research, he analyzed the effects of incomplete unbundling on competition. Apart from his intellectual passion, Economics, Silvester van Koten has interests in a broad range of fields, such as Public Speaking, Psychology, the Philosophy of Science, and Mathematics. He has been teaching on the CERGE-EI's MA in Applied Economics program since 2013.

Research Orientation:
Energy markets, regulation, and economics experiments.

Paul Whitaker, M.A.
Academic Skills Center Lecturer
Email: paul.whitaker@cerge-ei.cz

Paul Whitaker has been teaching at CERGE-EI since August 2014. He earned his Master's from the University of Nottingham, England in 2000. Before coming to CERGE-EI, Paul taught at the Higher Colleges of Technology in the UAE and the School of Business Administration in Karviná, Czech Republic. He also worked for many years as a teacher trainer and business skills trainer focusing on presentation and communication skills for multinational companies. Research orientation:
Effective communication, student-centered learning approaches and teacher training.

PhDr. Jan Zápal, Ph.D.
Assistant Professor
Email: jan.zapal@cerge-ei.cz
Web Site: https://sites.google.com/site/jzapal/

Jan Zápal has been an Assistant Professor at CERGE-EI (under U.S. permanent charter) as of September 2012. He has been an Assistant Professor at CERGE, Charles University and a Researcher at the Economics Institute of the Academy of Sciences of the Czech Republic, since September 2014. Between July 2013 and August 2014, he has also worked as a Researcher at CERGE, Charles University. He received his Master’s degree from the Institute of Economic Studies at Charles University in 2005 and a Ph.D. degree from the London School of Economics and Political Science in 2012. During his Ph.D. studies he was a Visiting Student Researcher at the Californian Institute of Technology (2010 to 2011), held an Economica Scholarship awarded by the LSE Department of Economics (2007 and 2008), and won the first prize in the Young Economist of the Year competition organized by the Czech Economic Society (2008). Between 2012 and 2014 he was a Post-doctoral Fellow at IAE-CSIC, Barcelona.

Research orientation:
Political economics, economic theory, dynamic bargaining models, effect of status-quo and its determination in the context of group decision making, decision making in monetary policy committees.
doc. Krešimir Žigić, PhD.

Citigroup Endowment Associate Professor with Tenure

Email: Kresimir.Zigic@cerge-ei.cz

Krešimir Žigić is the Citigroup Endowment Associate Professor with tenure at CERGE-EI (under US permanent charter) since 2007 and a member of the Executive and Supervisory Committee of CERGE-EI since 2004. He is a Docent (Associate Professor) at CERGE, Charles University since 2012 and a Researcher at the Economics Institute of the Academy of Sciences (EI) since 1993. Since September 2015 he has served as Deputy Director for Graduate Studies at CERGE and EI (previously also 1997–1999 and 2005–2008). Graduated from the Faculty of Economics, University of Zagreb, B.A. 1982, M.A. 1988. Ph.D. in Economics, CERGE-EI, 1996. Assistant Professor, CERGE, Charles University, 1996–2012. At CERGE-EI (under US permanent charter) he was Philip Morris Associate Professor, Fall 2001 – Fall 2002, Altria Group Associate Professor, Spring 2003, and Associate Professor of European Economic Issues, Česká spořitelna Chair, Fall 2003 – Spring 2007. Financial Officer, Rade Koncar Corporation, Zagreb, 1982–1990. Lecturer, Central European University, 1994. Lecturer, World Bank and Joint Vienna Institute Comprehensive Course, 1993–2003.

Research orientation: International trade, industrial organization, applied microeconomics.
# IV. ACADEMIC CALENDAR 2015 – 2016

<table>
<thead>
<tr>
<th>Week</th>
<th>Month</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
<th>January</th>
<th>February</th>
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<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
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</thead>
<tbody>
<tr>
<td>1st year students</td>
<td>Fall Semester</td>
<td>Holidays</td>
<td>Spring Semester</td>
<td>H</td>
<td>Summer Semester</td>
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<tr>
<td>2nd year students</td>
<td>Fall Semester</td>
<td>Holidays</td>
<td>Spring Semester</td>
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<td>RMS</td>
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<tr>
<td>3rd and 4th year students</td>
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<td>Holidays</td>
<td>Research Seminar Series</td>
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<td>Research Seminar Series</td>
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<tr>
<td>Preparatory semester</td>
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<td>DPW</td>
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<td>Preparatory Semester</td>
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</tr>
</tbody>
</table>

- **A/D** - add / drop period
- **G** - general exams week
- **F** - final exams week
- **M** - midterm exams week
- **U** - make-up general exams week
- **P** - graduation ceremony (timings provisional, subject to change after ESC meeting in November 2015)
- **H** - official CERGE holiday
- **DPW** - dissertation proposal workshops week
- **Dw** - dissertation workshops week (timings provisional, subject to change after ESC meeting in November 2015)
- ***** - public holidays (all official public holidays in the Czech Republic) - classes supposed to take place in these days will be re-scheduled:
  - 28 September - Czech Statehood Day (Monday)
  - 28 October - Establishment of the Czechoslovak Republic (Wednesday)
  - 17 November - Freedom and Democracy Day (Tuesday)
  - 24 December - Christmas Eve (Thursday)
  - 25 December - Christmas Day (Friday)
  - 26 December - Christmas Day (Saturday)
  - 1 January - New Year’s Day (Friday)
  - 28 March (Easter Monday)
  - 1 May - Labor Day (Sunday)
  - 8 May - Liberation from Fascism (Sunday)
  - 5 July - Cyril and Methodios (Tuesday)
  - 6 July - Burning at Stake of Jan Hus (Wednesday)
V. TEACHING SCHEDULE SPRING SEMESTER 2016

The schedules are subject to change. Most recent versions are at https://iweb.cerge-ei.cz/phd/prog_details/coursebook/