Instructor: A. Ulaş Emiroğlu and Umut Yılmaz Çetinkaya

COURSE OBJECTIVE

Main objective of the first part is to define and determine the role of state for catch-up of latecomers via analyzing the recent high-tech industrialization cases. The goal of the second part of the course is to provide a working knowledge of the concepts and methods used for analyzing social networks.

By the end of the course, the students will

1. Get information about recent high-tech catch-up cases (South Korea, Taiwan and China) in which state play one of the major roles. By guidance of these cases, be capable to define the role of state for latecomers’ catch-up attempt in state-led development model.

2. Implement social network analysis.

LEARNING OUTCOMES

1.1. Students will study neoliberal vs. state-led development models and their effect on latecomer economies.

1.2. Students will analyze state-led catch-up policies for latecomers.

1.3. The role of state will be underlined for newly industrialized emerging economies (South Korea, Taiwan and China) in the concept of high-tech industries.

2.1. Students will organize and arrange data for network analysis at the end of the ninth lesson.

2.2 Students will understand the basics of social network analysis techniques such as path-length, degree, clustering, centrality, etc. to examine social networks by the end of the tenth lesson.

2.3 Students will know differences among random, small-world and scale-free networks at the end of the eleventh lesson.

2.4. Students will able to do social network analysis by using software at the end of the thirteenth lesson.

PREREQUISITES (for Part 2)

For the second part of the course, students are expected to be familiar with basic algebra, and some knowledge of linear algebra will be helpful, but not required. Computer literacy is assumed. This should allow students to work on Windows operation system based environments and employ software such as MS Excel, Gephi, NodeXL, OpenRefine, etc.
REQUIREMENTS

1) Attendance and Participation in Discussions: Regular and positive attendance is, as always, expected, as well as keeping up with the readings stated below. All student will be expected to participate in class by reading the assigned material as well as asking and answering questions (frequency of relevant and constructive contributions are expected).

2) Assignments: Assignments, designed to build familiarity with topics discussed in the second part of the lesson, will be given weekly and students should turn these in one week after assignment.

3) Term Paper and Presentation: Each student will prepare and present a term paper. Details of terms paper will be introduced during the semester.

GRADING

A student’s final grade will be determined based on the following criteria. Final grade will be calculated as the average of the grades from the first and second parts.

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<tr>
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<th>First Part</th>
<th>Second Part</th>
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<tbody>
<tr>
<td>Attendance</td>
<td>5 points</td>
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<td>Participation in Discussions</td>
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<td>Term Paper</td>
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<td>Assignment</td>
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SOFTWARE (for Part 2)

There are number of software, which you can use in order to clean and organize data and analyze social networks. You are free to choose the software you want to use. It is planned to use OpenRefine for data cleaning and organizing; Gephi and/ or NodeXL to analyze social networks.

COMMUNICATION

e-Mail addresses:

First part of the course: ulas_emiroglu@yahoo.com

Second part of the course: uycetinkaya@gmail.com ; cumut@metu.edu.tr
COURSE OUTLINE AND READING LIST

Week-1 Introduction

Week-2 Neoliberalism vs. State-led Development


Week-3 Latecomers’ State-led Catch-up


Week-4 South Korea


**Week-5 Taiwan**


**Week-6 China**


Week 7 Introduction to Second Part

Week 8 Introduction & Software


Documents related with Gephi can be found in http://gephi.github.io/ users or googling.


Week 9 Introduction to Social Networks


Please do not forget to submit Assignment 1 and bring your poster for the next week lesson.

Week 10 Basic Concepts


Please do not forget to submit Assignment 2 in next week.

**Week 11 Network Types**


Please do not forget to submit Assignment 3 in next week

**Week 12 Contingency Week**

**Week 13 Presentation**

Term papers will be presented by students.

**Week 14 Wrap-Up**

Topics, discussed throughout the semester, will be overviewed

Please do not forget to submit term paper in the last week of Final Exam Weeks.