

## PR Empirical Research Project in Environmental Economics (320.787)

Mo, 14:00-16:45, SR 15.4C

### Content and learning outcomes:

- Learning of a quantitative modeling method for empirical research in the field of environmental economics
- Application of a quantitative model for an appropriate research question
- Recognizing trade-offs in environmental policy decision making
- Interpretation of results of quantitative analysis and deduction of recommendations

### Schedule:

Date	Topic
Mo, 02.03.	<b>Welcome and organizational issues</b> <b>Introduction:</b> Group formation and research topics, Model base data (SAM)
Mo, 09.03.	<b>Milestone 1: Research plan:</b> Research question, Sector aggregation, Basic outline on how to model the stated research question, Work packages within the project and timeline
Mo, 16.03.	<b>Milestone 2: Model draft (on paper)</b>
Mo, 23.03.	<b>Milestone 3a: Reporting on experience with model using real SAM, time for questions and discussion</b>
Th, 26.03. 9:00 - 11:45	<b>Milestone 3b: Calibrated benchmark model</b>
Mo, 20.04.	<i>Time for questions and discussion</i>
Mo, 27.04.	<b>Milestone 4: Description of modeling and first policy simulation results</b> Present ideas for further scenarios/simulations
Mo, 04.05.	<i>Time for questions and discussion</i>
Mo, 11.05.	<b>Milestone 5: Results of scenarios/simulations, Structure of final report</b>
Mo, 18.05.	<b>Milestone 6a: Ideas for sensitivity analysis</b> <i>Time for questions and discussion</i>
Mo, 01.06.	<b>Milestone 6b: Results of sensitivity analysis</b>
Th, 11.06. 12:00	<b>Milestone 7: Final draft of final report (<u>upload moodle</u>) - no meeting in class!</b>
Mo, 15.06.	<b>Milestone 8a: Final presentations</b>
Mo, 22.06.	<b>Milestone 8b: Final presentations</b>
Fr, 03.07. 12:00	<b>Milestone 9: Final report (<u>upload moodle</u>) -no meeting in class!</b>

**Learning platform:** Moodle, <http://moodle.uni-graz.at/>

### **Course outline:**

1. **Enrollment** only via UGO!
2. **Group work:** You will work in small groups (max. 3 persons) to one of the following topics:
  - Transition to a low carbon economy
  - Climate change impacts and adaptation
3. **Time for questions and discussion:** Faculty will be available for questions regarding modeling, data, scientific writing as well as project management during the provided time slots (see course Schedule: *Time for questions and discussion*), not mandatory. If you want to participate in these time slots, please **send an email with your questions to your group supervisor in advance (before Saturday 18:00 prior to the respective time slot)**.
4. **Presentations:** For **Milestones 1-6 and 8** as well as the **final report** you will give presentations.
5. **Final report:** In your group you will write a final report in scientific paper style (~25 pages). A template will be provided on moodle.

### **Course requirements:**

Participation in:

- group work
- group presentations (Milestones and final presentation)
- final report

### **Grading:**

Grading is based on:

- Milestones 1-8: max. 10 points each
- Milestone 9 (final report): max. 20 points

Out of 100 points you have to achieve at least 50 to pass this course.

Grading scale:

- 50 points and higher: Sufficient (4)
- 62 points and higher: Satisfactory (3)
- 74 points and higher: Good (2)
- 86 points and higher: Excellent (1)