Research project (PROJ952_S3E)

ECTS
6 crédits

Composante
Polytech Annecy-Chambéry

En bref

- **Langues d'enseignement:** Anglais
- **Méthodes d'enseignement:** En présence
- **Ouvert aux étudiants en échange:** Oui

Présentation

Description

* Semester 9
* Duration : Within one semester
* Type: Mandatory
* Student workload: Lecture (CM): 6 hours and 24 hours of self-study
* Applicability: SOLEM and ESBC Course
* Teaching and learning method : seminar, case studies, discussion
* Module examination: 1 written exam (40%), 1 individual oral presentation (40%), Intermediary documents (20%)

Responsible person for the module: Dorothée CHARLIER Assistant professor HDR in economics, Université Savoie Mont Blanc, IAE, Laboratory IREGE

Research fields: Environmental and resource economics, energy-saving investments, residential sector, impact of environmental Policy

> Personal website

> https://www.irege.univ-smb.fr/en/permanent-members/

Objectifs

Major intended learning outcomes:

By the end of this course, students will be able to:

1. Formulate and outline a research proposal in the domain of solar energy.
2. Conduct a comprehensive literature review to support research hypotheses and methodologies.
3. Implement appropriate research methodologies and techniques specific to solar energy studies.
4. Analyze research data effectively and draw relevant conclusions.
5. Communicate research findings through a written thesis and oral presentation.

Correspondence between major intended learning outcomes and assessment:

Formulate and outline a research proposal in the domain of solar energy.

Assessment:

Intermediary document and presentation (20%) – Students will be evaluated on their ability to identify a relevant research question, develop a literature review, and propose a methodology for investigating their topic in solar energy.

Conduct a comprehensive literature review to support research hypotheses and methodologies.

Implement appropriate research methodologies and techniques specific to solar energy studies.

Final Thesis (40%) – The thesis will extensively evaluate the application of chosen methods and the execution of the research plan, showcasing the practical skills and analytical abilities of the students.

Analyze research data effectively and draw relevant conclusions.

Oral Defense (40%) – This assesses the student's ability to effectively present their research to an audience, defending their methodologies and findings, and demonstrating a comprehensive understanding of the subject matter.

Heures d'enseignement

Multidisciplinary project - CM	Cours Magistral	6h
TP	Travaux Pratiques	20h

Pré-requis obligatoires

Admission to 2nd year of master program

Plan du cours

Content of the module:

Phase 1: Proposal Development (First Semester)

* Identifying research topics and formulating questions
* Literature review and theoretical framework
* Methodology design
* Proposal writing and presentation

Phase 2: Research Implementation (First and Second Semester)

* Data collection (experimental work, simulations, or fieldwork)
* Data analysis
* Ongoing evaluation with supervisor

Phase 3: Thesis Writing and Presentation (Second Semester)

* Drafting of thesis
* Peer review process within the course
* Final thesis submission
* Oral defense of the thesis

Guidelines for Thesis:

* Reports#recommended length:#10 #pages. If you need additional information you may add appendices.
* It should include a clear introduction, methodology, results, discussion, and conclusion. You need to follow the template on Moodle.
* Proper citation and referencing of all sources according to academic standards.
* Presentations: 10 min (groups of 1 or 2) or 15 min (groups of 3 or 4) oral presentation + 10/15 min discussion

Additional Resources:

* Laboratory access for experimental work
* Statistical software for data analysis
* Seminars by guest speakers from the solar energy industry

Infos pratiques

Lieux

- Le Bourget-du-Lac (73)

Campus

- Le Bourget-du-Lac / campus Savoie Technolac