

# Research project (PROJ852\_S3E )



ECTS  
6 crédits



Composante  
Polytech  
Anancy-  
Chambéry

## En bref

- > **Langues d'enseignement:** Anglais
- > **Ouvert aux étudiants en échange:** Oui

# Présentation

## Description

- \* 1st & 2nd semester
- \* Duration : Within one semester
- \* Type: Mandatory
- \* Applicability: SOLEM and ESBC
- \* Module examination: 1 written exam (40%), 1 individual oral presentation (40%), Intermediary documents (20%)
- \* Teaching and learning method : seminar, case studies, discussion

## Objectifs

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.

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## Heures d'enseignement

TP	Travaux Pratiques	24h
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## Pré-requis obligatoires

Admission to 2nd semester

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## Plan du cours

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

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### Lieux

› Le Bourget-du-Lac (73)

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### Campus

› Le Bourget-du-Lac / campus Savoie Technolac

