

# UE Study and research work



Level  
Baccalaureate  
+4



ECTS  
6 credits



Component  
UFR IM2AG  
(informatique,  
mathématiques  
et  
mathématiques  
appliquées)



Semester  
Printemps

- > **Teaching language(s):** French
- > **Teaching type:** Tutorials
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** GBMG8U10

## Presentation

### Description

This Teaching Unit proposes a discovery of research in mathematics through the study of a subject describing a result or a mathematical theory, with which the student will have to familiarize themselves in order to appropriate them and to be able to account for them in a written report and an oral presentation.

In practice, a list of subjects is proposed during the first semester. Each student selects four subjects from this list, ranked from 1 to 4, and then the person responsible for the training assigns to each student a topic *as far as possible* among these four. As soon as the assignments are known, each student will contact the author of their subject, who will supervise them for this work throughout the second semester. Once the supervisor has presented the subject and the details of the expected work, the student meets them regularly to report on the progress of his/her work and progress.

The Supervised Research Work leads to the writing of a written report using LaTeX software, which must include an abstract and a bibliography, and an oral defence of 20 to 30 minutes, often followed by questions, before a jury which includes the supervisor. The report and the defence jointly contribute to the evaluation of the work carried out.

**Period :** Semester 8

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## Bibliography

- [🔗](#) Micro-introduction à LaTeX (sur la page de Bernard Parisse)
- [🔗](#) Liste des sujets proposés en 2014-2015 (PDF)
- Quelques (bons) mémoires de TER rédigés en 2016-2017 (PDF)
  - [🔗](#) Théorème d'Erhart (Hélène Chakroun)
  - [🔗](#) Solutions entropiques de lois de conservation (Thomas Mietton)
  - [🔗](#) Loi du demi-cercle (Léa Guériteau)
  - [🔗](#) Zéros réels des polynômes alternés (Justine Fasquel)
  - [🔗](#) Corps non commutatifs : constructions (Vincent Blazy)

## Useful info

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### Place

➤ Grenoble

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### Campus

➤ Grenoble - University campus