Field : Mathematics, Computer Sciences

Branch :Mathematics

Scholarships :
- **France**
- **Hungary**
  - **China**

Hiring :
- Teaching
- Post-graduate studies

Speciality: Mathematics

Degree:
'Academic' Licence

Program of the studies

Semester 1	Credits	Semester 2	Credits
Fundamental Teaching units(T U) : 17 credits • Analysis 1 • Algebra 1 • Alghoritm 1 • Machine structure 1	6 5 6 4	**Fundamental TU :** **10 credits** ▪ Analysis 2 ▪ Algebra 2 ▪ Algorithm 2 ▪ Machine structure 2	6 4 6 4
Methodology TU: 4 credits ▪ Scientific terminology and expression ▪ Language 1	2 2	**Methodology TU: 9 credits** ▪ Introduction to propability and descriptive statistics ▪ Information technology and communication. ▪ Programming tools of Mathematics	3 2 2
Discovery TU: 4 credits • Physique 1 • Electronique	2 2	**Transversal TU: 3 credits** ▪ Physique 2	3
Transversal TU: 2 credit **Language 1: English**	1		
Semester 3	Credits	Semester 4	Credits
Fundamental TU: 18 credits • Algebra 3 • Analysis 3 • Introduction to topology	5 7 6	**Fundamental TU: 18 credits** • Algebra 4 • Analysis 4 • Complex Analysis ▪	7 5 6
. Methodology TU: 10 credits ▪ Numerical Analysis 1 ▪ Mathematical Logic ▪ Programming tools 2	4 3 3	**Methodology TU: 10 credits** • Numerical Analysis 1 • Probability • Geometry	4 3 3
Discovery TU: 2 credits ▪ History of Mathematics	2	**Discoveriy : 2 credits** ▪ Applications of Mathematics to other sciences	2
Semester 5	Credits	Semester 6	Credits
Fundamental TU: 22 credits ▪ Measurement and Integration ▪ Normalized Vector space ▪ Differential equation ▪ Equation of physics Mathematics	6 5 6 5	**. Fundamental TU: 18 credits** ▪ Introduction to the random processor ▪ Numerical methods for EDO and EDP	9 9
Methodology TU: 5 credits ▪ Unconstrained optimization	5	**Methodology TU: 6 credits** ▪ Teaching methodology	2
Discovery TU: 3 credits ▪ Introduction to the didactics of mathematics	3	**Transversal TU: 10 credits** ▪ Differential geometry ▪ Integral transformations in Lp space	5 5

Targeted areas of activity

Following a Licence degree, students will find opportunities in various fields:

- **Teaching**
- **Post-graduate studies**
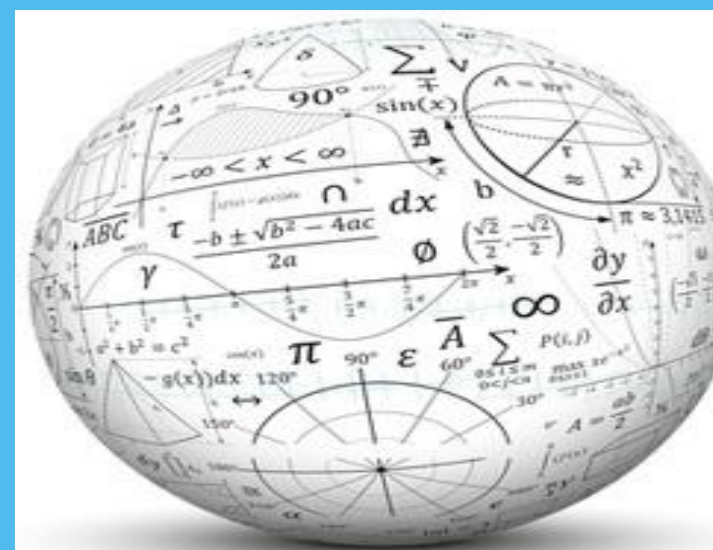
Educational Goals

- Providing a general education allowing students to acquire the fundamental knowledge about scientific subjects.
- Preparing students for teaching. The skills acquired will enable them to adapt easily to a variety of professional situations.
- At the end of the license, students will have the basic knowledge of Mathematics necessary to pursue two disciplinary: teaching or scientific research.