

- **Semester 1**

Teaching unit (TU)	Coeff.	Credits	Assessment mode (Continuous)	Assessment mode (Examination)
Fundamental TU (FTU)				
FTU1.1	5	10		
Introduction to dynamic systems	3	6	33%	67%
Difference equations	2	4	33%	67%
FTU1.2	5	10		
Linear programming	2	4	33%	67%
Distribution Theory	3	6	33%	67%
Methodology TU (MTU)				
MTU1.1	4	8		
Introduction to random processes	3	6	33%	67%
Scientific English 1	1	2	100%	
Discovery TU (DTU)				
DTU1.1	1	1		
Programming with MATLAB	1	1	100%	
Transversal TU (TTU)				
TTU1.1	1	1		
Information and communication technology 2 (ICT2)	1	1		100%

- **Semester 2**

Teaching unit (TU)	Coeff.	Credits	Assessment mode (Continuous)	Assessment mode (Examination)
Fundamental TU (FTU)				
FTU2.1	5	10		
Dynamic systems in biology	2	4	33%	67%
Discrete dynamic systems	3	6	33%	67%
FTU2.2	4	8		
Graph theory	2	4	33%	67%
Spectral operator theory	2	4	33%	67%
Methodology TU (MTU)				
MTU2.1	4	8		
Chronological series	3	6	33%	67%
Scientific English 2	1	2	100%	
Discovery TU (DTU)				
DTU2.1	2	3		
Introduction to Latex	2	3	40%	60%
Transversal TU (TTU)				
TTU2.1	1	1		
Legislation and right to work	1	1		100%

- **Semester 3**

Teaching unit (TU)	Coeff.	Credits	Assessment mode (Continuous)	Assessment mode (Examination)
UE fondamentales				

UEF3.1	5	10		
Bifurcation and chaos theory	3	6	33%	67%
Introduction to control theory	2	4	33%	67%
UEF3.2	5	10		
Semi-group theory	3	6	33%	67%
Non-linear optimization with constraints	2	4	33%	67%
Methodology TU (MTU)				
MTU3.1	4	8		
Numerical methods for differential equations	3	6	33%	67%
Scientific redaction	1	2	100%	
Discovery TU (DTU)				
DTU3.1	1	1		
R language	1	1	100%	
Transversal TU (TTU)				
TTU3.1	1	1		
Entrepreneurship and project management	1	1		100%

- **Semester 4**

Semester S4 is reserved for initiation to research, sanctioned in a thesis and a defense.

- **Hours of work** = 14 weeks.
- **Credit** = 30.
- **Assessment mode:** Defense before the jury