License in Mathematics

Speciality: Mathematics.

Brief

The study of mathematics at the University of Khemis Miliana is one of the main branches of the faculty of science and technology. This specialty is extremely broad and diverse with a few applications. Mathematics courses and tutorials are very important to students at all levels from the first year of a bachelor's degree to the last year of a master's degree, allowing students to understand the fundamental principles of other specialties. At the bachelor's level, all students are required to complete six semesters of coursework associated with practical work.

Field	Branch	Speciality
Mathematics and computer science	Mathematics	Mathematics

First Semester

Teaching unit	Matter	Credit	Coefficient	Course	TD	TP	HV
	Analysis 1	6	4	3h	3h		84h
	Algebra 1	5	3	1h	1h		42h
	Algorithms and data structure 1	6	4	3h	1h30	3h	105h
	Machine structure 1	5	3	1h30	1h30		42h
Methodological unit	Scientific Terminology and Written Expression	2	1	1h30			21h
	Foreign language 1	2	1	1h30			21h
Discovery unit	Physics 1 (point mechanics)	4	2	1h30	1h30		42h
Transversale Unit							

Second Semester 2

Teaching unit	Matter	Credit	Coefficient	Courses	TD	TP	Volume (hour)
	Analysis 2	6	4	3h	1h30		63h
	Algebra 2	4	2	1h30	1h30		42h
Fundamental Unit	Algorithms and data structure 2	6	4	1h30	1h30	1h30	63h
	Machine structure 2	4	2	1h30	1h30		42h
Methodological unit	Introduction to probability and descriptive statistics	3	2	1h30	1h30		42h
	Information and Communication Technology	2	1	1h30			21h
	Programming tools for mathematics	2	1	1h30		1h30	42h
Discovery unit							
Transversale Unit	Physics 2 (general electricity)	3	2	1h30	1h30		42h

Third Semester

Teaching unit	Matter	Credit	Coefficient	Courses	TD	TP	HV
Fundamental Unit	Algebra 3	5	3	1h30	1h30		42h
	Analysis 3	7	4	3h	1h30		63h
	Introduction to topology	6	3	3h	1h30		63h
Methodological unit	Numerical Analysis 1	4	3	1h30	1h30	1h30	63h
	Mathematical Logic	3	2	1h30	1h30		42h

Teaching unit	Matter	Credit	Coefficient	Courses	TD	TP	HV
	Programming Tools 2	3	1	1h30		1h30	42h
Discovery unit	History of Mathematics	2	1	1h30			21h
Transversale Unit							

Fourth semester

Teaching unit	Matter	Credit	Coefficient	Courses	TD	TP	HV
	Analysis 4	7	4	3h	3h		84h
Fundamental Unit	Algebra 4	5	3	1h30	1h30		42h
	Complex analysis	6	3	3h	1h30		63h
	Numerical Analysis 2	4	2	1h30	1h30	1h30	63h
Methodological unit	probabilities	4	2	1h30	1h30		42h
	Geometry	4	2	1h30	1h30		42h
Discovery unit	Application of mathematics to other sciences	2	1	1h30			21h
Transversale Unit							

Fifth semester

Teaching unit	Matter	Credit	Coefficient	Courses	TD	TP	HV
	Measurement and integration	6	4	3h	1h30		63h
Fundamental Unit	Normalized vector spaces	5	3	1h30	1h30		42h
	Differential equations	6	4	3h	1h30		63h
	Mathematical Physics Equations	5	2	1h30	1h30		42h
Methodological unit	Optimization without constraints	5	2	1h30	1h30	1h30	63h
Discovery unit	Introduction to mathematics education	3	1	1h30			21h

Teaching unit	Matter	Credit	Coefficient	Courses	TD	TP	HV
Transversale Unit							

SixSemester

Teaching unit	Matter	Credit	Coefficient	Courses	TD	TP	HV
Fundamental Unit	Introduction to Linear Operator Theory	9	5	3h	3h		84h
	Partial Differential Equations	9	5	3h	3h		84h
Methodological unit	Integral transformations in L ^p spaces	5	2	3h	1h30		63h
	Differential geometry	5	2	3h	1h30		63h
Discovery unit							
Transversale Unit	Ethics and deontology of teaching and research	2	2	1h30			21h