Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

First Semester Organization Card, level: Bachelor Branch: Mathematics, Specialty: Mathematics

Wei	ghts	Credits	coefficients	Number of weekly	Number of	Number of weekly	Unite and their components
tutorial	lecture	Credits	coefficients	practical sessions	weekly tutorials	lectures	Units and their components
		11	7				Fundamental Teaching Unit1
40%	60%	6	4	-	2	2	analysis 1
40%	60%	5	3	-	1	1	Algebra1
		11	7				Fundamental Teaching Unit2
40%	60%	6	4	2	1	2	Algorithms and data structures1
40%	60%	5	3	-	1	1	Machine structure
		4	2				Methodology Teaching Unit
-	100%	2	1	-	-	1	Scientific terms and oral written expression
-	100%	2	1	-	-	1	English
		4	2				Transversal Teaching Unit
40%	60%	2	2	-	1	1	Physics 1

Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

First Semester Organization Card, level: Bachelor Branch: Mathematics, Specialty: Mathematics

Wei	ghts	Credits	coefficients	Number of weekly	Number of	Number of weekly	Unite and their components
tutorial	lecture	Credits	coefficients	practical sessions	weekly tutorials	lectures	Units and their components
		11	7				Fundamental Teaching Unit1
40%	60%	6	4	-	2	2	analysis 1
40%	60%	5	3	-	1	1	Algebra1
		11	7				Fundamental Teaching Unit2
40%	60%	6	4	2	1	2	Algorithms and data structures1
40%	60%	5	3	-	1	1	Machine structure
		4	2				Methodology Teaching Unit
-	100%	2	1	-	-	1	Scientific terms and oral written expression
-	100%	2	1	-	-	1	English
		4	2				Transversal Teaching Unit
40%	60%	2	2	-	1	1	Physics 1

Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

First Semester Organization Card, level: Bachelor Branch: Mathematics, Specialty: Mathematics

Wei	ghts	Credits	coefficients	Number of weekly	Number of	Number of weekly	Unite and their components
tutorial	lecture	Credits	coenicients	practical sessions	weekly tutorials	lectures	Units and their components
		11	7				Fundamental Teaching Unit1
40%	60%	6	4	-	2	2	analysis 1
40%	60%	5	3	-	1	1	Algebra1
		11	7				Fundamental Teaching Unit2
40%	60%	6	4	2	1	2	Algorithms and data structures1
40%	60%	5	3	-	1	1	Machine structure
		4	2				Methodology Teaching Unit
-	100%	2	1	-	-	1	Scientific terms and oral written expression
-	100%	2	1	-	-	1	English
		4	2				Transversal Teaching Unit
40%	60%	2	2	-	1	1	Physics 1

Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

Third Semester Organization Card, level: 2nd year, Branch: Computer Science,

Weig	ghts	Cradita	coefficients	Number of weekly	Number of	Number of weekly	Unite and their components
tutorial	lecture	Credits	coefficients	practical sessions	weekly tutorials	lectures	Units and their components
		11	6				Fundamental Teaching Unit1
40%	60%	5	3	1	1	1	Computer architecture
40%	60%	6	3	1	1	2	Algorithmic and data structure 3
		9	5				Fundamental Teaching Unit2
40%	60%	5	3	1	1	1	Information system
40%	60%	4	2	-	1	1	Graph theory
		6	4				Methodology Teaching Unit
40%	60%	4	2	1		1	Numerical methods
40%	60%	2	2	-	1	1	Mathematical logic
		2	1				Transversal Teaching Unit
	100%	2	1	-	-	1	Foreign language 2

Faculty of Exact Sciences, Natural and Life Sciences Department of Mathematics and Computer Science

First Seme	ester Organi	ization Card, lev	vel second year b	achelor Branch : Mathe	matics specialty : Math	ematics	
Wei tutorial	ghts lecture	Credits	coefficients	Number of weekly practical sessions	Number of weekly tutorials	Number of weekly lectures	Units and their components
							Fundamental Teaching Unit
40%	60%	5	3	/	1	1	Module 1:Algebra 3
40%	60%	7	4	/	1	2	Module 2: Analysis 3
40%	60%	6	3	/	1	2	Module 3:Introduction to
40%	00%						topology
							Methodological Teaching Unit
40%	60%	4	3	1	1	1	Module 1:Numericalanalysis 1
40%	60%	3	2		1	1	Module 2:Mathematicallogic
40%	60%	3	1	1	/	1	Module 3:Programming Tools
40%	00%						2
							Discovery Teaching Unit
	100%	2	1	/	/	1	Module 1:History of
							Mathematics

Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

First Semester Organization Card, level: Bachelor Branch: Computer Science, Specialty: Information Systems and Software Engineering

Wei	ghts	Credite	a a affi a i a mta	Number of weekly	Number of	Number of weekly	Unite and their components
tutorial	lecture	Credits	coefficients	practical sessions	weekly tutorials	lectures	Units and their components
		10	6				Fundamental Teaching Unit1
40%	60%	6	4	1	1	1	Distributed information systems
40%	60%	4	2	1	-	1	Decision support system
		10	6				Fundamental Teaching Unit2
40%	60%	6	4	1	1	1	Software engineering
40%	60%	4	2	1	1	1	Human machine interface
		8	4				Methodology Teaching Unit
40%	60%	4	2	-	1	1	Information systems administration
40%	60%	4	2	-	1	1	Advanced programming for the web
		2	1				Transversal Teaching Unit
100%		2	1	-	1	-	Digital economy and strategic foresight

Faculty of Exact Sciences, Natural and Life Sciences

Academic Year 2023/2024

Department of Mathematics and Computer Science

First Semester Organization Card, level third year bachelor Branch : Mathematics - specialty: Mathematics

Wei	ghts		coefficients	Number of weekly	Number of weekly	Number of week	Units and their components
tutorial	lecture	Credits	coefficients	practical sessions	tutorials	ly lectures	Units and their components
							Fundamental Teaching Unit1
40%	60%	6	4	/	1	2	Module 1:Measure and
40%	00%						integration
40%	60%	5	3	/	1	1	Module 2:Normedvectorspaces
							Fundamental Teaching Unit2
40%	60%	6	4	/	1	2	Module 1:Differentialequations
40%	60%	5	2	/	1	1	Module 2:Equations of
40%	00%						mathematical physics
							Methodological Teaching Unit
40%	60%	5	2	1	1	1	Module 1:Optimization without
40%	00%						constraints
							Discovery Teaching Unit
	100%	3	1	/	/	1	Module 1:Introduction to
							didactics of Mathematic

Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

First Semester Organization Card, level: Bachelor Branch: Computer Science, Specialty: Informatic Systems

Wei	ghts	Credits	coefficients	Number of weekly	Number of	Number of weekly	Unite and their components
tutorial	lecture	Credits	coemcients	practical sessions	weekly tutorials	lectures	Units and their components
		10	6				Fundamental Teaching Unit1
40%	60%	5	3	1	1	1	Operating system 2
40%	60%	5	3	1	1	1	Compilation
		10	6				Fundamental Teaching Unit2
40%	60%	5	3	1	1	1	Software engineering
40%	60%	5	3	1	1	1	Human machine interface
		8	4				Methodology Teaching Unit
40%	60%	4	2	-	1	1	Linear programming
40%	60%	4	2	-	1	1	Probability and statistics
		2	1				Transversal Teaching Unit
100%		2	1	-	1	-	Digital economy and strategic foresight

Faculty/Institute: Faculty of Exact Sciences, Natural and Life Sciences

Academic Year 2023/2024

Department: Department of Mathematics and Computer Science

First Semester Organization Card, level Master 1 Branch: Computer Science specialty: distributed architectures

Wei	ghts		e e efficiente	Number of weekly	Number of weekly	Number of weekly	Unite and their components
tutorial	lecture	Credits	coefficients	practical sessions	tutorials	lectures	Units and their components
		18	9				Fundamental Teaching Unit
%50	%50	6	3	1	1	1	Module 1: Distributed software
							engineering
%50	%50	6	3	1	1	1	Module 2: Artificial intelligence
%50	%50	6	3	1	1	1	Module 2: Formal tools
		9	5				Methodological Teaching Unit
%50	%50	3	2	0	0	1	Module 1: English
%50	%50	6	3	1	1	1	Module 2: Algorithmic methods
		2	2				Discovery Teaching Unit
%0	%100	2	2	0	0	2	Module 1 : Mini-project
		1	1				Transversal Teaching Unit
%50	%50	1	1	0	0	1	Module 1: Communication

Ministry of Higher Education and Scientific Research

University of Oum El Bouaghi

Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

First Semester Organization Card, level Master 1 - Branch : Mathematics - Specialty : Applied mathematics (MA)

Wei	ghts		coefficients	Number of weekly	Number of weekly	Number of weekly	Units and their components
tutorial	lecture	Credits	coefficients	practical sessions	tutorials	lectures	Chits and then components
							Fundamental Teaching Unit
40%	60%	6	3		1	2	Module 1: Complement to probability theory
40%	60%	6	3		1	2	Module 2: Functional analysis 1
40%	60%	6	3		1	2	Module 3: Complements on integration and Lebesgue spaces
							Methodological Teaching Unit
40%	60%	5	2		1	2	Module 1: Numerical methods
40%	60%	4	2		1	1	Module 2: Linear programming
							Discovery Teaching Unit
100%	/	2	1			2	Module 1: English
							Transversal Teaching Unit
100%	/	1	1			1	Module 1: Ethics and professional conduct

Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

Academic Year 2023/2024

First Semester Organization Card, level Master 1 Branch: Computer Science specialty: Artificial Vision (AV)

Wei	ghts		coefficients	Number of weekly	Number of weekly	Number of weekly	Unite and their components
tutorial	lecture	Credits	coefficients	practical sessions	tutorials	lectures	Units and their components
							Fundamental Teaching Unit
40%	60%	6	3	1	1	1	Module 1: Digital Imaging
40%	60%	6	3	1	1	1	Module 2: Geometric modeling
40%	60%	6	3	1	1	1	Module 3: Artificial Intelligence Tools
							Methodological Teaching Unit
40%	60%	5	3	1	1	1	Module 1: Statistical data processing
30%	70%	4	2	1	/	1	Module 2: Cybersecurity
							Discovery Teaching Unit
100%	/	2	1	/	/	1	Module 1: English
							Transversal Teaching Unit
100%	/	1	1	/	/	1	Module 1: Communication

Faculty/Institute: Faculty of Exact Sciences, Natural and Life Sciences

Academic Year 2023/2024

Department: Department of Mathematics and Computer Science

First Semester Organization Card, level Master 2 Branch: Computer Science specialty: distributed architectures

Wei	ghts		coefficients	Number of weekly	Number of weekly	Number of weekly	Units and their components	
tutorial	lecture	Credits		practical sessions tutorials		lectures	onits and their components	
		18	9				Fundamental Teaching Unit	
50%	50%	6	3	1	1	1	Module 1: Multi-agent systems	
500/	500/	6	3	1	1	1	Module 2: Distributed	
50%	50%						architectures	
50%	50%	6	3	1	1	1	Module 2 : Advanced security of	
50%	50%						computer systems	
		9	5				Methodological Teaching Unit	
50%	50%	5	3	0	0	2	Module 1: Cloud Computing and	
50%	50%						Virtualization	
50%	50%	4	2	0	0	1	Module 2: English	
		2	2				Discovery Teaching Unit	
50%	50%	2	2	0	0	2	Module 1: Service Oriented	
5070	50%						Architectures	
		1	1				Transversal Teaching Unit	
50%	50%	1	1	0	0	1	Module 1: Legislation	

Ministry of Higher Education and Scientific Research

University of Oum El Bouaghi

Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

First Semester Organization Card, level Master 2 - Branch : Mathematics - Specialty : Applied mathematics (MA)

Weights			coefficients	Number of weekly	Number of weekly	Number of weekly	Units and their components
tutorial	lecture	Credits	coefficients	practical sessions	tutorials	lectures	onto una then componento
							Fundamental Teaching Unit
40%	60%	6	3		1	2	Module 1: Distributions 2
40%	60%	6	3		1	2	Module 2: Variational theory of elliptic equations
40%	60%	6	3		1	2	Module 3: Random Processes and System Reliability
							Methodological Teaching Unit
40%	60%	4	2		1	1	Module 1: Control theory
40%	60%	5	2		1	2	Module 2: Dynamical systems and introduction to chaos
							Discovery Teaching Unit
100%	/	1	1			1	Module 1: Seminars
							Transversal Teaching Unit
100%	/	2	1			2	Module 1: Scientific writing

Faculty of Exact Sciences, Natural and Life Sciences

Department of Mathematics and Computer Science

Academic Year 2023/2024

First Semester Organization Card, level Master 2 Branch: Computer Science specialty: Artificial Vision (AV)

Weights			oofficiente	Number of weekly	Number of weekly	Number of weekly	Unite and their components
tutorial	lecture	Credits	coefficients	practical sessions	tutorials	lectures	Units and their components
							Fundamental Teaching Unit
40%	60%	6	3	1	1	1	Module 1: Pattern recognition
40%	60%	6	3	1	1	1	Module 2: Motion detection and
							estimation
40%	60%	6	3	1	1	1	Module 3: Augmented reality
							Methodological Teaching Unit
40%	60%	5	3	1	1	1	Module 1: Imaging of the living
30%	70%	4	2	1	/	1	Module 2: Industrial imaging
							Discovery Teaching Unit
100%	/	2	1	/	/	1	Module 1: English
							Transversal Teaching Unit
100%	/	1	1	/	/	1	Module 1: Entrepreneurship and
							project management