

People's Democratic Republic of Algeria

Ministry of Higher Education and Scientific Research

Amendment Template

**TRAINING OFFER
L.M.D.**

ACADEMIC LICENCE

2018-2019

Establishment	Faculty/Institute	Department
Akli Mohand Oulhadj university of Bouira	Faculty of exact sciences	Mathematics

Domain	Program	Specialty
Mathematics and Computer Science	Mathematics	Mathematics

Common Core Mathematics, Applied Mathematics, and Computer Science

Semester 1:

Teaching Unit	VHS	Weekly Hours				Coeff	Credits	Evaluation Mode	
	14week	C	TD	TP	Personal Work			Continu	Exam
Core Fundamental UE									
UEF11(O/P)		4h30	4h30		6h	7	11		
UEF111: Analysis 1	84h	3h00	3h00		3h	4	6	40%	60%
UEF112: Algebra 1	42h	1h30	1h30		3h	3	5	40%	60%
UEF12(O/P)		4h30	3h	3h	6h	7	11		
UEF121: Algorithmics and data structures 1	105h	3h00	1h30	3h	3h	4	6	40%	60%
UEF122: Computer Architecture 1	42h	1h30	1h30		3h	3	5	40%	60%
Methodology UE									
UEM11(O/P)		3h			4h	2	4		
UEM111: Scientific Terminology and Writing	21h	1h30			2h	1	2		100%
UEM112: Foreign Language1	21h	1h30			2h	1	2		100%
Exploratory UE									
UED11(O/P)		1h30	1h30		2h	2	4		
UED111:Choose one from: - Physics1 (Point Mechanics) - Electronics and Components	42h	1h30	1h30		2h	2	4	40%	60%
Total Semester 1	357h	13h30	9h	3h	18h	18	30		

Common Core Mathematics, Applied Mathematics, and Computer Science

Semester 2:

Teaching Unit	VHS	Weekly Hours				Coeff	Credits	Evaluation Mode	
	14week	C	TD	TP	Personal Work			Continu	Exam
Core Fundamental UE									
UEF21 (O/P)		4h30	3h		6h	6	10		
UEF211: Analysis 2	63h	3h00	1h30		3h	4	6	40%	60%
UEF212: Algebra 2	42h	1h30	1h30		3h	2	4	40%	60%
UEF22 (O/P)		3h	3h	1h30	6h	6	10		
UEF221: Algorithmics and data structures 2	63h	1h30	1h30	1h30	3h	4	6	40%	60%
UEF222: Computer Architecture 2	42h	1h30	1h30		3h	2	4	40%	60%
Methodology UE									
UEM21(O/P)		4h30	1h30	1h30	6h	4	7		
UEM211: Introduction to probability and descriptive statistics	42h	1h30	1h30		2h	2	3	40%	60%
UEM212 : Information and Communication Technology	21h	1h30			2h	1	2		100%
UEM213: Programming Tools for Mathematics	42h	1h30		1h30	2h	1	2	40%	60%
Transversal Unit									
UET21(O/P)		1h30	1h30		2h	2	3		
UET211: Physics 2 (General Electricity)	42h	1h30	1h30		2h	2	3	40%	60%
Total Semester 2	357h	13h30	9h	3	20H	18	30		

Common Core Mathematics, and Applied Mathematics

Semester 3:

Teaching Unit	VHS	Weekly Hours				Coeff	Credits	Evaluation Mode	
	14week	C	TD	TP	Personal Work			Continu	Exam
Core Fundamental UE									
UEF31(O/P)		7h30	4h30		9h	10	18		
UEF311: Algebra 3	42h	1h30	1h30		3h	3	5	40%	60%
UEF312: Analysis 3	63h	3h00	1h30		3h	4	7	40%	60%
UEF313: Introduction to topology	63h	3h00	1h30		3h	3	6	40%	60%
Methodology UE									
UEM31(O/P)		4h30	3h	3h	6h	6	10		
UEM311: Numerical Analysis 1	63h	1h30	1h30	1h30	2h	3	4	40%	60%
UEM312: Mathematical Logic	42h	1h30	1h30		2h	2	3	40%	60%
UEM313: Programming Tools for Mathematics 2	42h	1h30		1h30	2h	1	3	40%	60%
Exploratory UE									
D31(O/P)		1h30			2h	1	2		
D311: History of Mathematics	21h	1h30			2h	1	2		100%
Total Semester 3	336h	13h30	7h30	3h	17h	17	30		

Common Core Mathematics, and Applied Mathematics

Semester 4:

Teaching Unit	VHS	Weekly Hours				Coeff	Credits	Evaluation Mode	
	14week	C	TD	TP	Personal Work			Continu	Exam
Core Fundamental UE									
UEF41(O/P)		7h30	6h		9h	10	18		
F411: Analysis 4	84h	3h	3h		3h	4	7	40%	60%
F412: Algebra 4	42h	1h30	1h30		3h	3	5	40%	60%
F413: Complex Analysis	63h	3h	1h30		3h	3	6	40%	60%
Methodology UE									
UEM41(O/P)		4h30	4h30	1h30	6h	6	10		
M411: Numerical Analysis 2	63h	1h30	1h30	1H30	2h	2	4	40%	60%
M412: Probability	42h	1h30	1h30		2h	2	3	40%	60%
M413: Geometry	42h	1h30	1h30		2h	2	3	40%	60%
Exploratory UE(O/P)									
UED41		1h30			2h	1	2		
D411 : Application of Mathematics to Other Sciences	21h	1h30			2h	1	2		100%
Total Semester 4	357	13h30	10h30	1h30	17h	17	30		

Semester 5:

Teaching Unit	VHS	Weekly Hours				Coeff	Credits	Evaluation Mode	
	14week	C	TD	TP	Personal Work			Continu	Exam
Core Fundamental UE									
UEF5.1(O/P)		4h30	3h		6h	7	11		
UEF5.1.1: Measure and Integration	63h	3h	1h30		3h	4	6	40%	60%
UEF5.1.2: Normed Vector Spaces	42h	1h30	1h30		3h	3	5	40%	60%
UEF5.2(O/P)		4h30	3h		6h	6	11		
UEF5.2.1: Differential Equations	63h	3h	1h30		3h	4	6	40%	60%
UEF5.2.2: Equations of Mathematical Physics	42h	1h30	1h30		3h	2	5	40%	60%
Methodology UE									
UEM5.1(O/P)		1h30	1h30	1h30	2h	2	5		
UEM5.1.1: Unconstrained Optimization	63h	1h30	1h30	1h30	2h	2	5	40%	60%
Exploratory UE									
UED5.1(O/P)		1h30			2h	1	3		
UED5.1.1: Introduction to the Didactics of Mathematics	21h	1h30			2h	1	3		100%
Total Semester 5	294h	12h	7h30	1h30	18h	16	30		

Semester 6: Mathematics

Teaching Unit	VHS	Weekly Hours				Coeff	Credits	Evaluation Mode	
	14week	C	TD	TP	Personal Work			Continu	Exam
Core Fundamental UE									
UEF6.1(O/P)		6h	6h		6h	10	18		
UEF6.1.1: Linear Programming	84h	3h	3h		3h	5	9	40%	60%
UEF6.1.2: Partial Differential Equations	84h	3h	3h		3h	5	9	40%	60%
Methodology UE									
UEM6.1(O/P)		6h	3h		4h	4	10		
UEM6.1.1: Integral Transformations in Lp Spaces	63h	3h	1h.30		2h	2	5	40%	60%
UEM6.1.2: Differential Geometry	63h	3h	1h.30		2h	2	5	40%	60%
UE transversal									
UET6.1 (O/P)		1h30			2h	2	2		
Ethics and Deontology of Teaching and Research	21h	1h30			2h	2	2		100%
TotalSemester6	315h	13h30	9h		12h	16	30		