

II – lesson organization sheet of semester1
(Please submit the sheets for the 4 semesters)

1- Semester 1:

Teaching unit	VHS	V.H weekly				Coeff	Credits	Method Evaluation	
	14-16 sem	C	TD	TP	Personal work			Continu	Examen
Fundamental Teaching Units						9	18		
FTU1.1									
FTU1.1.1 : Topology and Functional Analysis	63h	3h	1h30		6h	3	6	40 %	60 %
FTU1.1.2 : Distribution Theory	42h	1h30	1h30		4h	2	4	40 %	60 %
FTU1.2									
FTU1.2.1 : Introduction to image processing	42h	1h30	1h30		4h	2	4	40 %	60 %
FTU1.2.2 : Ordinary differential equations	42h	1h30	1h30		4h	2	4	40 %	60 %
Methodology Teaching Unit						5	9		
MTU1									
MTU1.1 : Continuous optimization	63h	1h30	1h30	1h30	3h	3	5	40 %	60 %
MTU1.2 : Scientific calculation	42h		1h30	1h30	3h	2	4	100 %	
Transversal Teaching Unit						2	3		
TTU1									
TTU1.1 : Basic English	21h		1h30		3h	1	2		100 %
TTU1.2 : Scientific communication	21h			1h30	2h	1	1	100 %	
Total Semester 1	336h	9h	10h30	4h30	29h	16	30		

2- Semester 2:

Teaching unit	VHS	V.H weekly				Coeff	Crédits	Method Evaluation	
	14-16 sem	C	TD	TP	Personal work			Continu	Examen
Fundamental Teaching Units						9	18		
FTU2.1									
FTU2.1.1: Fourier analysis	63h	3h	1h30		5h	3	6	40 %	60 %
FTU2.1.2: Holomorphic and meromorphic functions	42h	1h30	1h30		4h	2	4	40 %	60 %
FTU2.2									
FTU2.2.1: computer vision	42h	1h30	1h30		5h	2	4	40 %	60 %
FTU2.2.2: Differential inclusions	42h	1h30	1h30		5h	2	4	40 %	60 %
Methodology Teaching Unit						5	9		
MTU2									
MTU2.1: Convex optimization	63h	1h30	1h30	1h30	5h	3	5	40 %	60 %
MTU2.2: Fractional calcul	42h	1h30	1h30		3h	2	4	40 %	60 %
Transversal Teaching Unit						2	3		
TTU2									
TTU2.1: Scientific English	21h		1h30		2h	1	2		100 %
TTU2.2: Corruption and Work Ethics	21h	1h30			2h	1	1		100 %
Total Semester 2	336h	12h	10h30	1.30h	31h	16	30		

3- Semester 3 :

Teaching unit	VHS	V.H hebdomadaire				Coeff	Crédits	Mode d'évaluation	
	14-16 sem	C	TD	TP	Autres			Continu	Examen
Fundamental Teaching Units						9	18		
FTU3									
FTU3.1 : Spectral theory of operators and semigroups	63h	3h	1h30		3h	3	6	40 %	60 %
FTU3.2 : Fractional Differential Equations	63h	3h	1h30		3h	3	6	40 %	60 %
FTU3.3 : Advanced models for image processing	63h	3h	1h30		3h	3	6	40 %	60 %
Methodology Teaching Unit						5	9		
MTU3									
MTU3.1 : Differential inclusion and optimal control	63h	3h	1h30		2h	3	6	40 %	60 %
MTU3.2 : Numerical analysis for differential equations	42h	1h30	1h30		2h	2	3	40 %	60 %
Transversal Teaching Unit						2	3		
TTU3									
TTU3.1 : Scientific Calculus for Differential Equations	21h			1h30		1	2	100 %	
TTU3.2 : Seminar	21h		1.30h		8h	1	1	100 %	
Total Semester 3	336h	13h30	9h	1h30	21h	16	30		

4- Semester 4:

Field: Mathematics and Computer Science

Branch: Mathematics

Speciality: Mathematical Analysis and Applications

A research project will be proposed to each student. The work will be supervised by a teacher and sanctioned by a memory and a defense.

Teaching unit	VHS	Coeff	Crédits
FTU4 : Mémoire	330h	16	30
Total Semester 4	330h	16	30

5- Global summary of the training: (indicate the separate global VH in progress, TD, for the 04 teaching semesters, for the different types of EU)

UE VH	FTU	MTU	TTU	DTU	Total
Cours	378h	84h	42h	00	504h
TD	210h	84h	42h	00	336h
TP	00	105h	0h	00	105h
Personal work	364h	210	90h	00	664h
Mémoire	330	00	00	00	700h
Total	1652h	483h	132h	00	2267h
Crédits	86	26	08	00	120
% in credits for each teaching unit	71%	22%	7%	00	100%