

People's Democratic Republic of Algeria

Ministry of Higher Education and Scientific Research Sétif 1 University – Ferhat Abbas

Faculty of Technology **Department** of civil engineering

Training Canvas

Engineer Degree in civil engineering

Specialty: Construction and Sustainable Development

		le	its	Coefficients	Weekly Hours		eekly Hours		Weekly Hours		Weekly Hours		Evaluation Me	thod
Teaching Unit	Subject Titles	Code	Code		Course	Directed work	Practical work		Continuous Assessment	Final Exam				
Fundamental UE Code: UEF 1.1.1	Analysis 1	IST.1.1	6	3	1h30	3h00		67h30	40%	60%				
Credits: 10 Coefficients: 5	Algebra 1	IST.1.2	4	2	1h30	1h30		45h00	40%	60%				
Fundamental UE Code: UEF 1.1.2	Elements of Chemistry (Structure of Matter)	IST.1.3	7	4	1h30	3h00	1h30	90h00	40% (20% TD + 20% TP)	60%				
Credits: 14 Coefficients: 8	Elements of Mechanics (Physics 1)	IST.1.4	7	4	1h30	3h00	1h30	90h00	40% (20% TD + 20% TP)	60%				
Methodological UE Code: UEM 1.1	Probability and Statistics	IST.1.5	2	2	1h30	1h30		45h00	40%	60%				
Credits: 4 Coefficients: 4	Computer Structure and Applications	IST.1.6	2	2			3h00	45h00	100%					
Transversal UE Code: UET 1.1 Credits: 2	Ethical Dimension and Deontology (Foundations)	IST.1.7	1	1	1h30			22h30		100%				
Coefficients: 2	Foreign Language 1 (French or English)	IST.1.8	1	1		1h30		22h30	100%					
Total I	Hourly Volume		30	19	9h00 13h30 6h00		427h30							

		e	its	ients	We	eekly Hou	rs		Evaluation Mo	ethod
Teaching Unit	Subject Titles	Code	Course Directed Prawork v		Practical work	VHS	Continuous Assessment	Final Exam		
Fundamental UE Code: UEF 1.2.1	Analysis 2	IST.2.1	6	3	1h30	3h00		67h30	40%	60%
Credits: 10 Coefficients: 5	Algebra 2	IST.2.2	4	2	1h30	1h30		45h00	40%	60%
Fundamental UE Code: UEF 1.2.2	Electricity and Magnetism (Physics 2)	IST.2.3	7	4	1h30	3h00	1h30	90h00	40% (20% TD + 20% TP)	60%
Credits: 14 Coefficients: 8	Thermodynamics	IST.2.4	7	4	1h30	3h00	1h30	90h00	40% (20% TD + 20% TP)	60%
Methodological UE Code: UEM 1.2	Technical Draughting	IST.2.5	2	2			3h00	45h00	100%	
Credits: 4 Coefficients: 4	Programming (Computer Science 2)	IST.2.6	2	2			3h00	45h00	100%	
Transversal UE Code: UET 1.2 Credits: 1 Coefficients: 1	Foreign Language 2 (English)	IST.2.7	1	1		1h30		22h30	100%	
Discovery UE Code: UED 1.2 Credits: 1 Coefficients: 1	Engineering Professions	IST.2.8	1	1	1h30			22h30		100%
Total Ho	ourly Volume		30	19	7h30	12h00	9h00	427h30		

		le	its	ients	We	eekly Hours		* T T T G	Evaluation Me	ethod
Teaching Unit	Subject Titles	Code	Credits	Coefficients	Course	Directe d work	Practical work	VHS	Continuous Assessment	Final Exam
Fundamental UE Code: UEF 3.1	Applied Mathematics	IGC3.1	6	3	1h30	3h00		67h30	40%	60%
Credits :11 Coefficients: 6	Waves and vibrations	IGC3.2	5	3	1h30	1h30	1h30	67h30	40% (20% TD + 20% TP)	60%
Fundamental UE	Strength of materials 1	IGC3.3	6	3	1h30	3h00		67h30	40%	60%
Code: UEF 3.2 Credits: 14	Building materials 1	IGC3.4	3	2	1h30		1h30	45h00	40%	60%
Coefficients: 8	Fluid mechanics	IGC3.5	5	3	1h30	1h30	1h30	67h30	40% (20% TD ± 20% TP)	60%
Methodological UE Code: UEM 3.1 Credits: 2 Coefficients:2	Computer Science 3	IGC3.6	2	2	1h30		1h30	45h00	40%	60%
Discovery UE Code: UED 3.1 Credits: 2	General Construction Procedures	IGC3.7	1	1	1h30			22h30		100%
Coefficients: 2	Geology	IGC3.8	1	1	1h30			22h30		100%
Transversal UE Code: UET 3.1 Credits: 1 Coefficients: 1	Technical English	IGC3.9	1	1		1h30		22h30	40%	60%
Total Hourly Volume			30	19	12h00	10h30	6h00	427h30		

m 11 T		e e	lits	ients	W	eekly Ho	urs	*****	Evaluation M	ethod
Teaching Unit	Subject Titles	Code	Credits	Coefficients	Course	Directe d work	Practical work	VHS	Continuous Assessment	Final Exam
Fundamental UE	Soil mechanics 1	IGC4.1	5	3	1h30	1h30	1h30	67h30	40% (20% TD + 20% TP)	60%
Code: UEF 4.1 Credits: 16	Reinforced concrete 1	IGC4.2	6	3	1h30	3h00		67h30	40%	60%
Coefficients: 9	Strength of materials 2	IGC4.3	5	3	1h30	1h30	1h30	67h30	40% (20% TD + 20% TP)	60%
Fundamental UE	Topography 1	IGC4.4	3	2	1h30		1h30	45h00	40%	60%
Code: UEF 4.2 Credits: 9	General hydraulics	IGC4.5	4	2	1h30	1h30		45h00	40%	60%
Coefficients: 5	Metal frame 1	IGC4.6	2	1	1h30			22h30		100%
Methodological UE Code: UEM 4.1	Numerical methods	IGC4.7	2	2	1h30		1h30	45h00	40%	60%
Credits: 3 Coefficients:3	Computer-aided Draughting	IGC4.8	1	1			1h30	22h30	100%	
Discovery UE Code: UED 4.1 Credits: 1 Coefficients: 1	Norms and regulations	IGC4.9	1	1	1h30			22h30		100%
Transversal UE Code: UET 4.1 Credits 1 Coefficients: 1	Information, expression and communication techniques	IGC4.10	1	1		1h30		22h30	40%	60%
Total Hou	Total Hourly Volume		30	19	12h00	9h00	7h30	427h30		

		le	Weekly Hours Course Directe d work Practical work		Weekly Hours Evaluation		Weekly Hours		Evaluation M	ethod
Teaching Unit	Subject Titles	Coc			Course			VHS	Continuous Assessment	Final Exam
Fundamental UE	Reinforced concrete 2	CDD 5.1	4	2	1h30	1h30		45h00	40%	60%
Code: UEF 5.1 Credits:14	Structures Analysis	CDD 51	6	3	1h30	3h00		67h30	40%	60%
Coefficients:7	Metal frame 2	CDD 5.2	4	2	1h30	1h30		45h00	40%	60%
Fundamental UE	Building materials 2	CDD 5.3	4	2	1h30		1h30	45h00	40%	60%
Code: UEF 5.2 Credits: 9 Coefficients: 5	Soil mechanics 2	CDD 5.4	5	3	1h30	1h30	1h30	67h30	40% (20% TD + 20% TP)	60%
Methodological UE	Topography 2	CDD 5.5	2	2	1h30		1h30	45h00	40%	60%
Code: UEM 5.1 Credits: 5	Computer-aided draughting 2	CDD 5.6	2	2			3h00	45h00	100%	
Coefficients: 5	Organization and Management of Worksite	CDD 5.7	1	1	1h30			22h30		100%
Discovery UE Code: UED 5.1 Credits: 1 Coefficients: 1	Environment and waste management	CDD 5.8	1	1	1h30			22h30		100%
Transversal UE Code: UET5.1 Credits :1 Coefficients :1	Technical English	CDD 5.9	1	1	1h30			22h30		100%
Total Hourly Volume			30	19	13h30	7h30	7h30	427h30		

		le	lits	ients	We	ekly Hou	ırs		Evaluation M	ethod
Teaching Unit	Subject Titles	Code	Credits	Coefficients	Course	Directe d work	Practical work	VHS	Continuous Assessment	Final Exam
Fundamental UE	Reinforced Concrete 3	CDD 6.1	5	3	1h30	3h00		67h30	40%	60%
Code: UEF 6.1 Crédits:12	Foundations and Geotechnical Structures	CDD 6.2	4	2	1h30	1h30		45h00	40%	60%
Coefficients:7	Reinforced Concrete Project	CDD 6.3	3	2			3h00	45h00	100%	
Fundamental UE	Metal frame 3	CDD 6.4	5	3	1h30	3h00		67h30	40%	60%
Code: UEF 6.2 Credits: 12	Construction Sustainable Development	CDD 6.5	4	2	1h30	1h30		45h00	40%	60%
Coefficients:7	Metal Frame Project	CDD 6.6	3	2			3h00	45h00	100%	
Mathadala sigal III	Highways And Miscellaneous External Networks	CDD 6.7	2	2	1h30	1h30		45h00	40%	60%
Methodological UE Code: UEM 6.1 Credits: 5 Coefficients:4	Internship 1	CDD 6.8	1	1	Hours exc hours) Tut	ceeding q oring: 1.5 work pe	hours of	age 100 practical	100%	
	Computer-aided Design	CDD 6.9	2	1			3h00	45h00	100%	
Transversal UE Code: UET 6.1 Credits :1 Coefficients :1	Entrepreneurship and corporate management	CDD.6.10	1	1	1h30			22h30		100%
Total Hourly Volume 30 19 9h00 10h30		9h00	427h30							

		le	e lits Weekly H	Weekly Hours	Weekly Hours		*****	Evaluation M	Evaluation Method	
Teaching Unit	Subject Titles	Code	Credits	Coefficients	Course	Directe d work	Practical work	VHS	Continuous Assessment	Final Exam
Fundamental UE Code: UEF 7.1	Structural Design (BA/CM)	CDD71	6	3	3h00	1h30		67h30	40%	60%
Credits: 10 Coefficients: 5	Structures Dynamic 1	CDD 7.2	4	2	1h30	1h30		45h00	40%	60%
Fundamental UE	Continuum Mechanics 1	CDD 7.3	6	3	3h00	1h30		67h30	40%	60%
Code: UEF 7.2 Credits: 10 Coefficients: 5	Reinforcement and Structures Rehabilitation (Design and Calculation)	CDD 7.4	4	2	1h30	1h30		45h00	40%	60%
Methodological UE	Experiment design	CDD 7.5	2	2	1h30		1h30	45h00	40%	60%
Code: UEM 7.1 Credits: 6	Numerical Calculation in Civil Engineering	CDD 76	2	2			3h00	45h00	100%	
Coefficients: 5	Professional personal project	CDD 7.7	2	1	Hourl	y volume	outside qu	ıota	100%	
Discovery UE Code: UED 7.1	Secondary trades	CDD 7.8	1	1	1h30			22h30		100%
Credits: 3 Coefficients: 3	Heating and Air Conditioning	CDD.7.9	2	2	1h30	1h30		45h00	40%	60%
Transversal UE Code: UET 7.1 Credits: 1 Coefficients: 1	Measurement and Price Estimation	CDD7.10	1	1	1h30		1h30	45h00	40%	60%
Total Hourly Volume			30	19	15h00	7h30	6h00	427h30		

		le	lits	ients	Weekly Hours	Directed Practice VHS		TITTO .	Evaluation M	Iethod
Teaching Unit	Subject Titles	Code	Credits	Coefficients	Course				Continuous Assessment	Final Exam
Fundamental UE	Prestressed Concrete	CDD8.1	6	3	3h00	1h30		67h30	40%	60%
Code: UEF 8.1 Credits: 14	Structures Dynamic 2	CDD 8.2	4	2	1h30	1h30		45h00	40%	60%
Coefficients: 7	Mix structures (steel-concrete)	CDD 8.3	4	2	1h30	1h30		45h00	40%	60%
Fundamental UE Code: UEF 8.2	Continuum Mechanics 2	CDD 8.4	4	2	1h30	1h30		45h00	40%	60%
Credits: 9 Coefficients: 5	Finite Element Methods	CDD 8.5	5	3	1h30	1h30	1h30	67h30	40% (20% TD + 20% TP)	60%
Mathodalorical III	Structures Modeling	CDD 8.6	2	2			3h00	45h00	100%	
Methodological UE Code: UEM 8.1 Credits: 4 Coefficients: 4	Internship 2	CDD 8.7	1	1	hours	ceeding qu) Tutoring actical wor	: 1.5 hou	100%		
Coefficients: 4	Geotechnical Study 1	CDD 8.8	1	1			1h30	22h30	100%	
Discovery UE Code: UED 8.1 Credits: 2 Coefficients: 2	Building Information Modeling (BIM)	CDD 8.9	2	2	1h30		3h00	67h30	40%	60%
Transversal UE Code: UET 8.1 Credits: 1 Coefficients: 1	Respect for norms and rules of ethics and deontology	CDD.8.10	1	1	1h30			22h30		100%
Total Hourly Volume			30	19	12h00	7h30	9h00	427h30		

	G 14	<u>e</u>	dits		1	Weekly H	Hours		Evaluation Method	
Teaching Unit	Subject Titles	Code	Credits	Coefficients	Course	Directe d work	Practical work	VHS	Continuous Assessment	Final Exam
Fundamental UE Code: UEF 9.1	Formwork and Shoring Dimensioning	CDD 9.1	4	2	1h30	1h30		45h00	40%	60%
Credits: 9 Coefficients: 4	Special structures	CDD 9.2	5	2	1h30	1h30		45h00	40%	60%
Fundamental UE Code: UEF 9.2	Plastic Design of Structures	CDD 9.3	4	2	1h30	1h30		45h00	40%	60%
Credits: 10 Coefficients: 5	Rheology of Materials	CDD 9.4	6	3	1h30	3h00		67h30	40%	60%
Methodological UE Code: UEM 9.1	Soil-Structure Interaction	CDD 9.5	3	3	1h30	1h30	1h30	67h30	40% (20% TD + 20% TP)	60%
Credits: 7	FABLAB/ Prototyping	CDD 9.6	2	2			3h00	45h00	100%	
Coefficients: 6	Geotechnical Study 2	CDD 9.7	2	1			1h30	22h30	100%	
Discovery UE	Public Tenders Code	CDD 9.8	1	1	1h30			22h30		100%
Code: UED 9.1 Credits: 3	Project management	CDD 9.9	1	1	1h30			22h30		100%
Coefficients: 3	Smart Buildings	CDD.9.10	1	1	1h30			22h30		100%
Transversal UE Code: UET 9.1 Credits: 1 Coefficients: 1	Documentary research and memory design	CDD 9.11	1	1	1h30			22h30		100%
Total Ho	Total Hourly Volume		30	19	13h30	9h00	6h00	427h30		

Semester 10 Specialty Engineer:

The PFE must be done in conjunction with a company or within the framework of decree 1275 (startup) sanctioned by a dissertation and a defense.

	VHS	Coeff	Credits
Personal Work	277	10	18
Company internship	50	05	06
Seminars	50	02	03
Other (supervision)	50	02	03
Total Semester 10	427	19	30

Engineering End-of-Cycle Project Evaluation

-	Scientific value (Jury assessment)	/6
-	Writing the Dissertation (Jury Assessment)	/4
-	Presentation and answer to questions (Jury assessment)	/4
-	Assessment of the supervisor	/3
-	Presentation of the internship report (Jury assessment)	/3