



الجمهورية الجزائرية الديمقراطية الشعبية
Democratic and Popular Republic of
Algeria
وزارة التعليم العالي والبحث العلمي
Ministry of Higher Education
and Scientific Research

University

LOGO

TRAINING OFFER

LMD

ACADEMIC LICENSE

NATIONAL PROGRAM
2021 - 2022
(2nd update)

Establishment	Faculty / Institute	Department

Domain	Sector	Speciality
<i>Sciences And Technologies</i>	<i>Process engineering</i>	<i>Process engineering</i>



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اللجنة الوطنية
لميدان العلوم والتكنولوجيا

National Educational
Committee for the
Science and Technology
Sector



The Lord .No. No The Lord of the Rings

The Lord and the Lord 2021 - 2022

Al-Qaeda	Al-Qaeda/Al-Qaeda	The Lord

The	Allah	Allah
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The whole world	The whole world	علوم و تكنولوجيا
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II – Half-yearly teaching organization sheets
of the specialty

Semester 1

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Continuous Assessment	Exam
Fundamental EU Code: UEF 1.1 Credits: 18 Coefficients: 9	Mathematics 1	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Physics 1	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Structure of matter	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
Methodological EU Code: UEM 1.1 Credits: 9 Coefficients: 5	Physics 1 Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
	Chemistry 1 practical work	2	1			1h30	10:30 p.m.	27:30	100%	
	Computer Science 1	4	2	1h30		1h30	45h00	55h00	40%	60%
	Writing methodology	1	1	1 hour			3:00 p.m.	10:00 a.m.		100%
EU Discovery Code: UED 1.1 Credits: 1 Coefficients: 1	Careers in Science and Technologies 1	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
E Transversal Code: UET 1.1 Credits: 2 Coefficients: 2	Ethical and deontological dimension (the foundations)	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Foreign language 1 (French or English)	1	1	1h30			10:30 p.m.	2:30 a.m.		100%

Total semester 1		30	17	4:00 p.m.	4:30 a.m.	4:30 a.m.	375 hours	375 hours		
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Semester 2

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Continuous Assessment	Exam
Fundamental EU Code: UEF 1.2 Credits: 18 Coefficients: 9	Mathematics 2	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Physics 2	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Thermodynamics	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
Methodological EU Code: UEM 1.2 Credits: 9 Coefficients: 5	Physics 2 Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
	Chemistry 2 practical work	2	1			1h30	10:30 p.m.	27:30	100%	
	Computer Science 2	4	2	1h30		1h30	45h00	55h00	40%	60%
	Presentation methodology	1	1	1 hour			3:00 p.m.	10:00 a.m.		100%
EU Discovery Code: UED 1.2 Credits: 1 Coefficients: 1	Careers in science and technologies 2	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 1.2 Credits: 2 Coefficients: 2	Foreign language 2 (French and/or English)	2	2	3:00 a.m.			45h00	5:00 a.m.		100%
Total semester 2		30	17	4:00 p.m.	4:30 a.m.	4:30 a.m.	375 hours	375 hours		

Semester 3

Teaching unit	Titled	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
				Course	TD	TP			Continuous Assessment	Exam
Fundamental EU Code: UEF 2.1.1 Credits: 10 Coefficients: 5	Mathematics 3	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Waves and vibrations	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 2.1.2 Credits: 8 Coefficients: 4	Fluid mechanics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Mineral chemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological EU Code: UEM 2.1 Credits: 9 Coefficients: 5	Probability and statistics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Computer Science 3	2	1			1h30	10:30 p.m.	27:30	100%	
	Technical drawing	2	1			1h30	10:30 p.m.	27:30	100%	
	TP Waves and vibrations	1	1			1 hour	3:00 p.m.	10:00 a.m.	100%	
EU Discovery Code: UED 2.1 Credits: 2 Coefficients: 2	HSE Industrial Installations	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Regulations and standards	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 2.1 Credits: 1 Coefficients: 1	Technical English	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Total semester 3		30	17	1:30 p.m.	7:30 a.m.	4:00 a.m.	375 hours	375 hours		

Semester 4

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Continuous Assessment	Exam
Fundamental EU Code: UEF 2.2.1 Credits: 8 Coefficients : 4	Solution chemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
	Organic chemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 2.2.2 Credits: 8 Coefficients: 4	Chemical thermodynamics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Numerical methods	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 2.2.3 Credits: 2 Coefficients: 1	Chemical kinetics	2	1	1h30			10:30 p.m.	27:30		100%
Methodological EU Code: UEM 2.2 Credits: 9 Coefficients: 5	Practical work on solution chemistry	2	1			1h30	10:30 p.m.	27:30	100%	
	Organic Chemistry Practical Work	1	1			1 hour	3:00 p.m.	10:00 a.m.	100%	
	Practical work on fluid mechanics	2	1			1h30	10:30 p.m.	27:30	100%	
	Numerical Methods Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
	Chemical Kinetics Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
EU Discovery Code: UED 2.2 Credits: 2 Coefficients: 2	Introduction to Refining and Petrochemistry	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Concepts of transfer phenomena	1	1	1h30			10:30 p.m.	2:30 a.m.		100%

Transversal EU Code: UET 2.2 Credits: 1 Coefficients: 1	Techniques of expression, information and communication	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Total semester 4		30	17	12:00 p.m.	6:00 a.m.	7:00 a.m.	375 hours	375 hours		

Semester 5

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Continu ous Assess ment	Exam
Fundamental EU Code: UEF 3.1.1 Credits: 10 Coefficients: 5	Heat Transfer	4	2	1h30	1h30		45h00	55h00	40%	60%
	Transfer of Matter	4	2	1h30	1h30		45h00	55h00	40%	60%
	Transfer of Momentum	2	1	1h30			10:30 p.m.	27:30		100%
Fundamental EU Code: UEF 3.1.2 Credits: 8 Coefficients: 4	Electrochemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
	Instrumentation - sensors	2	1	1h30			10:30 p.m.	27:30		100%
	Kinetics and homogeneous catalysis	2	1	1h30			10:30 p.m.	27:30		100%
Methodological EU Code: UEM 3.1 Credits: 9 Coefficients: 5	Analysis techniques	4	2	1h30		1h30	45h00	55h00	40%	60%
	Practical work: Physical Chemistry 1 and Chemical Engineering 1	2	1			1h30	10:30 p.m.	27:30	100%	
	Macroscopic assessments	3	2	1h30	1 hour		37h30	37h30	40%	60%
EU Discovery Code: UED 3.1 Credits: 2 Coefficients: 2	pharmaceutical processes	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Agri-food processes	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 3.1 Credits: 1 Coefficients: 1	Pollution: Air, water, soil	1	1	1h30			10:30 p.m.	2:30 a.m.		100%

Total semester 5		30	17	4:30 p.m.	5:30 a.m.	3:00 a.m.	375 hours	375 hours		
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Semester 6

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Continuous Assessment	Exam
Fundamental EU Code: UEF 3.2.1 Credits: 10 Coefficients: 5	Unit operations	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Thermodynamics of equilibria	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 3.2.2 Credits: 8 Coefficients: 4	Homogeneous reactors	4	2	1h30	1h30		45h00	55h00	40%	60%
	Surface phenomena and heterogeneous catalysis	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological EU Code: UEM 3.2 Credits: 9 Coefficients: 5	End of Cycle Project	4	2			3:00 a.m.	45h00	55h00	100%	
	Process simulators	3	2	1h30		1 hour	37h30	37h30	40%	60%
	Practical work in physical chemistry 2 and chemical engineering 2	2	1			1h30	10:30 p.m.	27:30	100%	
EU Discovery Code: UED 3.2 Credits: 2 Coefficients: 2	Cryogenic processes	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Corrosion	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 3.2 Credits: 1 Coefficients: 1	Entrepreneurship and business management	1	1	1h30			10:30 p.m.	2:30 a.m.		100%

Total semester 6		30	17	1:30 p.m.	6:00 a.m.	5:30 a.m.	375 hours	375 hours		
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The assessment methods presented in these tables are given for information purposes only; the establishment's training team may suggest other weightings.

