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People's Democratic Republic of Algeria ÿÿÿÿÿÿ ÿÿÿÿÿÿ

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Ministry of Higher Education and Scientific Research

Educational Committee

National Domain

Science and Technology

REGULARIZATION

LMD

PROFESSIONAL LICENSE

2020 – 2021

Establishment	Faculty / Institute	Department
Constantine 1- Mentouri Brothers University	Technology Sciences	Transportation Engineering

Domain	Sector	Specialty
Sciences And Techniques	Engineering of the Transportation	Transportation and Distribution of Hydrocarbons

Semester 1

Teaching Unit	Materials Titled	Credits	Coefficient	Hourly volume Weekly			Hourly volume Biannual (15 weeks)	Work Complementary in consultation (15 weeks)	Assessment mode	
				Course	TD	TP			Continuous	Exam
Basic TU Code: BTU 1.1 Credits: 18 Coefficients: 9	Mathematics 1	6	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 TU Code: MTU 1.1 Credits: 9 Coefficients: 5	Physics 1 Practical Work	2	1			1h30	10:30 a.m.	27:30	100%	
	TP Chemistry 1	2	1			1h30	10:30 a.m.	27:30	100%	
	Computer science 1	4	2	1h30		1h30	45h00	55h00	40%	60%
	Methodology of the editorial	1	1	1 hour			3:00 a.m.	10:00 a.m.		100%
Discovery TU Code: DTU 1.1 Credits: 1 Coefficients: 1	Professions in science and technologies 1	1	1	1h30			10:30 a.m.	2h30		100%
Transversal TU Code: TTU 1.1 Credits: 2 Coefficients: 2	Foreign language 1 (French and/or English)	2	2	3:00 a.m.			45h00	5:00 a.m.		100%
Total semester 1		30	17	4:00 p.m.	4:30 a.m.	4:30 a.m.	375 hours	375 hours		

Semester 2

Teaching Unit	Materials Titled	Credits	Coefficient	Hourly volume weekly Course	TD	TP	Hourly volume Biannual (15 weeks)	Work Complementary in consultation (15 weeks)	Assessment mode Continuous	Exam
Basic TU Code: BTU 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	3h00	1h30		67h30	82h30	40%	60%
Methodological TU Code: MTU 1.2 Credits: 9 Coefficients: 5	Physics 2 Practical Work	2	1			1h30	10:30 a.m.	27:30	100%	
	TP Chemistry 2	2	1			1h30	10:30 a.m.	27:30	100%	
	Computer Science 2	4	2	1h30		1h30	45h00	55h00	40%	60%
	Methodology of the presentation	1	1	1h00			3:00 a.m.	10:00 a.m.		100%
Discovery TU Code: DTU 1.2 Credits: 1 Coefficients: 1	Careers in science and technology 2	1	1	1h30			10:30 a.m.	2h30		100%
Transversal TU Code: TTU 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	4:30	4:30	375 hours		375 hours	

Semester 3

Teaching Unit	Materials Titled	Credits	Coefficient	Hourly volume weekly Course	TD	TP		Hourly volume Biannual (15 weeks)	Work Complementary in consultation (15 weeks)	Assessment mode Continuous	Exam
Basic TU Code: BTU 2.1.1 Credits: 10 Coefficients: 5	Fluid mechanics 1	6	3	3h00	1h30			67h30	77h30	40%	60%
	Thermodynamics 2	4	2	1h30	1h30			45h00	50h00	40%	60%
Basic TU Code: BTU 2.1.2 Credits: 8 Coefficients: 4	Mathematics 3	4	2	1h30	1h30			45h00	50h00	40%	60%
	Thermal transfers	4	2	1h30	1h30			45h00	50h00	40%	60%
Methodological TU Code: MTU 2.1 Credits: 9 Coefficients: 5	Resistance of materials	4	2	1h30	1h30			45h00	55h00	40%	60%
	Technical drawing	3	2	1h30			1 hour	37h30	57h30	40%	60%
	Science and technology materials	2	1	1h30				10:00 a.m.	27:30		100%
Discovery TU Code: DTU 2.1 Credits: 1 Coefficients: 1	Computer science 3	1	1	1h30				10:30 a.m.	2h30		100%
Transversal TU Code: TTU 2.1 Credits: 2 Coefficients: 2	Written communication	1	1	1h30				10:30 a.m.	2h30	100%	
	Professional English 1	1	1	1h30				10:30 a.m.	2h30	100%	
Total semester 3		30	17	4:30	7:30	1:00	375 hours		375 hours		

Semester 4

Teaching Unit	Materials Titled	Credits	Coefficient	Hourly volume weekly			Hourly Volume Biannual (15 weeks)	Work Complementary in consultation (15 weeks)	Assessment mode	
				Course	TD	TP			Continuous	Exam
Basic TU Code: BTU 2.2.1 Credits: 10 Coefficients: 5	Fluid Mechanics 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Thermodynamics 3	4	2	1h30	1h30		45h00	55h00	40%	60%
Basic TU Code: BTU 2.2.2 Credits: 8 Coefficients: 4	Mathematics 4	4	2	1h30	1h30		45h00	55h00	40%	60%
	Numerical methods applied	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological TU Code: MTU 2.2 Credits: 9 Coefficients: 5	Electrotechnics and electronic	4	2	1h30	1h30		45h00	55h00	40%	60%
	TP TT + TP MDF + TP ANA	4	2			3:00 a.m.	45h00	55h00	100%	
	Industrial maintenance	1	1	1h30			10:30 a.m.	2h30		100%
Discovery TU Code: DTU 2.2 Credits: 1 Coefficients: 1	Renewable energy	1	1	1h30			10:30 a.m.	2h30		100%
Transversal TU Code: TTU 2.2 Credits: 2 Coefficients: 2	Oral communication	1	1	1h30			10:30 a.m.	2h30	100%	
	Professional English 2	1	1	1 hour			3:00 a.m.	10:00 a.m.	100%	
Total semester 4		30	17	2:30	7:30	3:00	375 hours	375 hours		

Semester 5

Teaching Unit	Materials Titled	Credits		Volume my schedule weekly			Hourly Volume Biannual (15 weeks)	Work Complementary in consultation (15 weeks)	Assessment mode	
				TD Course		TP			Control Continuous	Exam
Basic TU Code: BTU 3.1.1 Credits: 10 Coefficients: 5	Equipment and pipeline design	6	3:00 a.m.		1h30		67h30	82h30	40%	60%
	Turbomachines	4	2 1h30	1h30/15d	1h30/15d		45h00	55h00	40%	60%
Basic TU Code: BTU 3.1.2 Credits: 8 Coefficients: 4	Hydraulic and pneumatic	4	2	1h30	1h30		45h00	55h00	40%	60%
	Measuring systems	4	2 1h30	1h30/15d	1h30/15d		45h00	55h00	40%	60%
Methodological TU Code: MTU 3.1 Credits: 9 Coefficients: 5	Separation and liquefaction of gases	4	2 1h30		1h30		45h00	55h00	40%	60%
	Welding technology	2	1 1h30				10:30 a.m.	27:30		100%
	Hydrocarbon chemistry	2	1 1h30				10:30 a.m.	27:30		100%
	Servo systems	1	1 1h30				10:30 a.m.	2h30		100%
Discovery TU Code: DTU 3.1 Credits: 1 Coefficients: 1	Storage tank management	1	1 1h30				10:30 a.m.	2h30		100%
Transversal TU Code: TTU 3.1 Credits: 2 Coefficients: 2	Communication in a professional framework	1	1 1h30				10:30 a.m.	2h30	100%	
	Professional English 3	1	1 1h00				3:30 a.m.	10:00 a.m.	100%	
Total semester 5		30	17 5:30	6:00		1h30	375 hours	375 hours		

Semester 6

Teaching Unit	Materials Titled	Credits	Coefficient	Hourly volume weekly Course	TD	TP	Hourly volume Biannual (15 weeks)	Work Complementary in consultation (15 weeks)	Assessment mode Continuous	Exam
Basic TU Code: BTU 3.2.1 Credits: 12 Coefficients: 6	Hygiene, safety and pollution in the transport of hydrocarbons	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Non-destructive testing	6	3	1h30		3:00 a.m.	67h30	82h30	40%	60%
Basic TU Code: BTU 3.2.2 Credits: 6 Coefficients: 3	Transport of materials dangerous	4	2	3h00			45h00	55h00		100%
	Personnel management and industrial relations	2	1	1h30			10:30 a.m.	27:30		100%
Methodological TU Code: UEM 3.2 Credits: 9 Coefficients: 5	End-of-studies internship and preparation of the end-of-studies dissertation	9	5			8:00 a.m.	120h00	105h00		100%
Discovery TU Code: DTU 3.2 Credits: 1 Coefficients: 1	Project management	1	1	1h30			10:30 a.m.	2h30	100%	
Transversal TU Code: TTU 3.2 Credits: 2 Coefficients: 2	Risk prevention industrial	1	1	1 hour			3:00 a.m.	10:00 a.m.	100%	
	Protection of the environment	1	1	1 hour			3:00 a.m.	10:00 a.m.	100%	
Total semester 6		30	17	12:30 p.m.	1:30 a.m.	11:30 a.m.	375 hours	375 hours		