

Order No. 1015 OF JULY 25, 2023

Common core teaching program with a view to obtaining the state engineering diploma in the science and technology field

Sector: Process engineering

Semester 1

Teaching Unit	Subjects	Code	Credits	Coefficient	Weekly Hours			Semester Hours (15 weeks)	Evaluation Mode	
	Titled				Course	TU	Lab		Continuous Assessment	Exam
Fundamental Unit Code : FU 1.1 Credits : 10 Coefficients : 5	Mathematics (analysis 1)	IGP 4.1	6	3	1h30	3h00		67h30	40%	60%
	Algebra 1	IGP 4.2	4	2	1h30	1h30		45h30	40%	60%
Fundamental Unit Code : FU 1.2 Credits : 14 Coefficients : 8	Elements of Chemistry (Structure of Matter).	IGP 4.3	7	4	1h30	3h00	1h30	90h00	40% TU 20% , Lab 20%	60%
	Elements of Mechanics (Physics 1).	IGP 4.4	7	4	1h30	3h00	1h30	90h00	40% TU 20% , Lab 20%	60%
Methodological Unit Code : MU 1.1 Credits : 4 Coefficients : 4	probability and statistics	IGP 4.5	2	2	1h30	1h30		45h30	40%	60%
	Computer Architecture and Applications.	IGP 4.6	2	2			3h00	45h00	100%	
Transversal Unit Code : TU 1.1 Credits : 2 Coefficients : 2	Ethical and Deontological Dimension (The Foundations)	IGP 4.7	1	1	1h30			22h30		100 %
	Foreign Language 1 (English))	IGP 4.8	1	1		1h30		22h30	100 %	
Total hours			30	19	9h00	13h30	6h00	427h30		

Semester 2

Teaching Unit	Subjects	Code	Credits	Coefficient	Weekly Hours			Semester Hours (15 weeks)	Evaluation Mode	
	Titled				Course	TU	Lab		Continuous Assessment	Exam
Fundamental Unit Code : FU 2.1 Credits : 10 Coefficients : 5	Mathematics (analysis 2)	IGP 4.1	6	3	1h30	3h00		67h30	40%	60%
	Algebra 2	IGP 4.2	4	2	1h30	1h30		45h30	40%	60%
Fundamental Unit Code : FU 2..2 Credits : 14 Coefficients : 8	Electricity and Magnetism. (Physics 2)	IGP 4.3	7	4	1h30	3h00	1h30	90h00	40% TU 20% , Lab 20%	60%
	Thermodynamics.	IGP 4.4	7	4	1h30	3h00	1h30	90h00	40% TU 20% , Lab 20%	60%
Methodological Unit que Code : MU 2.1 Credits : 4 Coefficients : 4	Technical Drawing.	IGP 4.5	2	2			3h00	45h00	100%	
	Programming (Computer Science 2)	IGP 4.6	2	2			3h00	45h00		
Transversal Unit Code : TU 2.1 Credits : 1 Coefficients : 1	Foreign Language 2 (English))	IGP 4.7	1	1		1h30		22h30	100 %	
Discovery Unit Code : DU 2.1 Credits : 1 Coefficients : 1	Engineering Professions.	IGP 4.8	1	1	1h30			22h30		100 %
Total hours			30	19	7h30	12h00	9h00	427h30		

Semester 3

Teaching Unit	Subjects	Code	Credits	Coefficient	Weekly Hours			Semester Hours (15 weeks)	Evaluation Mode	
	Titled				Course	TU	Lab		Continuous Assessment	Exam
Fundamental Unit Code : FU 3.1 Credits : 11 Coefficients : 6	Applied mathematics	IGP 3.1	6	3	1h30	3h00		67h30	40%	60%
	waves and vibrations	IGP 3.2	5	3	1h30	1h30	1h30	67h30	40% TU 20% , Lab 20%	60%
Fundamental Unit Code : FU 3.2 Credits : 14 Coefficients : 8	fluid mechanics	IGP 3.3	5	3	1h30	1h30	1h30	67h30	40% TU 20% , Lab 20%	60%
	industrial organic chemistry	IGP 3.4	5	3	1h30	1h30	1h30	67h30	40% TU 20% , Lab 20%	60%
	solution chemistry	IGP 3.5	5	3	1h30	1h30	1h30	67h30	40% TU 20% , Lab 20%	60%
Methodological Unit que Code : MU 3.1 Credits : 2 Coefficients : 2	computer science 3	IGP 3.6	2	2	1h30		1h30	45h00	40%	60%
Discovery Unit Code : DU 3.1 Credits : 1 Coefficients : 1	hygiene & safety and environment & industrial installations	IGP 3.7	1	1	1h30			22h30		100%
Transversal Unit Code : TU 3.1 Credits : 1 Coefficients : 1	Technical English	IGP 3.8	1	1		1h30			40%	60%
Total hours			30	19	10h30	10h30	7h30	427h30		

Semester 4

Teaching Unit	Subjects	Code	Credits	Coefficient	Weekly Hours			Semester Hours (15 weeks)	Evaluation Mode	
	Titled				Course	TU	Lab		Continuous Assessment	Exam
Fundamental Unit Code : FU 4.1 Credits : 11 Coefficients : 6	heat transfer	IGP 4.1	4	2	1h30	1h30		45h00	40%	60%
	matter transfer	IGP 4.2	4	2	1h30	1h30		45h00	40%	60%
	momentum transfer	IGP 4.3	2	1	1h30			22h30		100%
Fundamental Unit Code : FU 4.2 Credits : 14 Coefficients : 8	chemical kinetics and homogeneous catalysis	IGP 4.4	5	3	1h30	1h30	1h30	67h30	40% TU 20% , Lab 20%	60%
	chemical thermodynamics	IGP 4.5	4	2	1h30	1h30		45h00	40%	60%
	industrial mineral chemistry	IGP 4.6	5	3	1h30	1h30	1h30	67h30	40% TU 20% , Lab 20%	
Methodological Unit Code : MU 4.1 Crédits : 3 Coefficients : 3	Numeric methods	IGP 4.7	2	2	1h30		1h30	45h00	40%	60%
	computer aided drawing	IGP 4.8	2	2	1h30		1h30	45h00	40%	
Discovery Unit Code : DU 4.1 Credits : 1 Coefficients : 1	introduction to refining and petrochemicals	IGP 4.9	1	1	1h30			22h30		100%
Transversal Unit Code : TU 3.1 Credits : 1 Coefficients : 1	information, expression and communication techniques	IGP 4.10	1	1		1h30		22h30	40%	60%
Total hours			30	19	13h30	9h00	6h00	427h30		