INDUSTRIAL ENGINEERING (GI) "OPERATIONS AND OPTIMIZATION" (I20) TRACK - 2025 2026			
	YEAR 2 (M1) OF ENPC MSc IN ENGINEERING	E	CTS
INCEPTION WEEKS (mandatory) 4,5			
September 2025 : 8th to 12th	Computerized mock-up with excel & access - O2MOD**	1	
September 2025 : 15th to 19th	Study trip - O2MGI	1	
November 2025 : 17th to 21st	Athens Week - SEP	1,5	
February 2025 : 2nd to 6th	Collaborative Robotics - ROBCO	1	
CORE CURRICULUM (mandatory) 13			
S3	Life cycle analysis - ACV2A	1,5	
S3	Numerical statistics and data analysis - STNUM (IMI)	1,5	
S3	Course to be chosen in the Humanities and Social Sciences Department (SHS)	3	
S3	Coaching and career guidance - AOP2	0,5	
S3	Business management - O2GE2 (MOOC + in person day on September 15th)	0,5	
S4	Introduction to law - DROA/DROE	3	
S4	Applications of machine learning - PRAMA (IMI)	1,5	
S4	Foresight and uncertainty - PR1CE	1,5	
	DEPARTMENT MANDATORY COURSES	:	23
S3	Planning and modelling of production and logistics systems - PLMOD	3	
S3	Smart systems - SYSIN	3	
S3	Operational research - REOP	3	
S3	Software development techniques - TDLOG (IMI)	3	
S3	Industrial Engineering Melusine project - GIP1	4	
S3	Industry professions - GISD	1	
S4	Industrial decarbonation - DECRB	3	
S4	Supply chain management - LOGIC	3	
I20 TRACK MANDATORY COURSES 6			
S4	Scientific project - PJSCI	3	
S4	Vagary and real time in the supply chain - ATRSC	3	
ELECTIVE COURSES TO BE CHOSEN IN A LIST Please choose 1 course in S3 and 2 courses (6 ECTS as a minimum) in S4			
S3	Environmental and industrial risks - RENIN (VET) OR Protection of innovation - VALIN	3	
S4	Procurement buying - ACHAT	3	
S4	Data science for business - DATBI	3	
S4	Data and Energy - M1EDE	4	
S4	Corporate financial strategy - STRA2 (SEGF)	3	
S4	Optimization - OPTIM (IMI)	3	
S4	Other courses to be chosen among the school catalogue		
S3 & S4	SPORT (mandatory)		1
S3 & S4	LANGUAGES (mandatory)		4
	ENGINEER INTERNSHIP *	2	2,5
	TOTAL YEAR 2 (M1	.) (63

^{*} The ects of engineer internship will be acquired at the beginning of year 3 (M2)

Letters in brackets stand for the department (other than GCC) which delivers the course :

GMM : Génie Mécanique et Matériaux - Mechanical Engineering and Materials Science

GCC : Génie Civil et Construction - Civil and Structural Engineering

IMI : Ingénierie Mathématique et Informatiques - Applied Mathematics and Computer science

SEGF : Sciences économiques, Gestion, Finance - Economics, Management, Finance

VET : Ville Environnement Transport - City, Environment, Transportation SHS - Sciences Humaines et Sociales - Humanities and Social Sciences

^{**} This code is the course's code in our online catalogue (http://gede.enpc.fr/Programme/Default.aspx?Langue=en)