

INDUSTRIAL ENGINEERING (GI) OPERATIONS ENGINEERING AND INDUSTRIAL SYSTEMS (IOSI) TRACK - 2026 2027

YEAR 2 (M1) OF ENPC MSc IN ENGINEERING

ECTS

S7 (Fall)	DEPARTMENT INCEPTION WEEKS (mandatory)		3	30
	Computerized mock-up with excel & access	O2MOD ⁽¹⁾	1	
	Department study trip	O2MGI	0,5	
	ATHENS week	SEP	1,5	
	SCHOOL CORE CURRICULUM (mandatory)		9	
	Languages (3 modules for international students)		2	
	Sport		0,5	
	Professional support and guidance	AOP2A	0,5	
	1 course to be chosen in our SHS department - SHS ⁽²⁾		3	
	Life cycle analysis	ACV2A	1,5	
	Numerical statistics and data analysis - IMI	STNUM	1,5	
	DEPARTMENT MANDATORY COURSES		10	
	Planning and modelling of production and logistics systems	PLMOD	3	
	Smart systems	SYSIN	3	
	Operations research	REOP	3	
	Seminar on industry	GISD	1	
	ELECTIVE COURSES TO BE CHOSEN SO AS TO REACH 30 ECTS		≥ 8	
	Software design and development - IMI	TDLOG	4	
	Machine Learning and Deep learning - IMI	or MLDL	4	
	Freight transport system - VET	or STMAR	3	
Environmental and industrial risks - VET	or RENIN	3		
Protection of innovation	or VALIN	3		
Game theory - SEGF	THEOJ	3		
Analysis and design of transportation systems - VET	or ACOST	3		
Energy : issues & demand-side management - VET	ENERG	3		

S8 (Spring)	DEPARTMENT INCEPTION WEEK (mandatory)		1	30
	Collaborative Robotics	ROBCO	1	
	SCHOOL CORE CURRICULUM (mandatory)		12	
	Languages (3 modules for international students)		2	
	Sport		0,5	
	Psychosocial risks		0,5	
	Foresight and uncertainty	PR1CE	1,5	
	Introduction to law	DROA / DROE	3	
	Applications of machine learning - IMI	PRAMA	1,5	
	Engineer Internship (short or long)		3	
	DEPARTMENT MANDATORY COURSES		13	
	Industrial Engineering project "Melusine"	GIP1	4	
	Supply chain management	LOGIC	3	
	Industrial decarbonation	DECRB	3	
	Procurement buying	ACHAT	3	
	ELECTIVE COURSES TO BE CHOSEN SO AS TO REACH 30 ECTS		≥ 4	
	Vagary and real time in the supply chain	ATRSC	3	
	Design-to-X	DES2X	1,5	
	Circular economics	CIRCX ou CMCE	1,5	
	Avanced programming and algoritmics	PRALG	2	
Corporate finance 2 - SEGF	Or STRA2	3		
Urban economics - SEGF	Or ECOGT	3		
Economic growth and development - SEGF	Or TCDEV	3		
Optimization - IMI	Or OPTIM	4		
Data and Energy	M1EDE	4		

⁽¹⁾ This code is the course's code in our online catalogue (<https://gede.enpc.fr/Programme/Default.aspx?Langue=en>)

⁽²⁾ These letters stand for the department (other than GI) which delivers the course :

- GCC : Génie Civil et Construction - Civil and Structural Engineering
- GMM : Génie Mécanique et Matériaux - Mechanical Engineering and Materials Science
- IMI : Ingénierie Mathématique et Informatique - 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