

**INDUSTRIAL ENGINEERING (GI)
DATA SCIENCE AND DECISION ENGINEERING (DSID) TRACK
2026 2027**

YEAR 2 (M1) OF ENPC MSc IN ENGINEERING		ECTS	
DEPARTMENT INCEPTION WEEKS (mandatory)		3	
S7 (Fall)	Computerized mock-up with excel & access	O2MOD 1	
	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	STNUM 1,5	
	DEPARTMENT MANDATORY COURSE		12
	Machine Learning and Deep learning - IMI	MLDL 4	
	Operations research	REOP 3	
	Software design and development - IMI	TDLOG 4	
	Seminar on industry	GISD 1	
	MANDATORY COURSES TO BE CHOSEN ON A LIST (at least 1 course)		≥ 3
	Smart systems	SYSIN 3	
	Planning and modelling of production and logistics systems	PLMOD 3	
	Game theory - SEGF	THEOJ 3	
	ELECTIVE COURSES TO BE CHOSEN SO AS TO REACH 30 ECTS		
C++ Advanced-C++B	C++B 2		
Analysis and design of transportation systems - VET	ACOST 3		
Energy : issues & demand-side management - VET	ENERG 3		
<i>Courses to be chosen in the whole School catalogue</i>			
DIPLOMA SUPPLEMENT (imbrication)			
<i>Course to be chosen in the whole School course catalogue but IMI department</i>			

DEPARTMENT INCEPTION WEEKS (mandatory)		1	
S8 (Spring)	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 COURSE		10
	Industrial Engineering project "Melusine"	GIP1 4	
	Supply chain management	LOGIC 3	
	Vagary and real time in the supply chain	ATRSC 3	
	MANDATORY COURSES TO BE CHOSEN ON A LIST (at least 1 course)		≥ 4
	High-dimensional statistics - IMI	HISTA 4	
	Optimization - IMI	OPTIM 4	
	Image processing and computer vision - IMI	TRIVA 4	
	ELECTIVE COURSES TO BE CHOSEN SO AS TO REACH 30 ECTS		
	Advanced programming and algorithmics - IMI	PRALG 2	
	Advanced Machine Learning	MLA 2	
Procurement buying	ACHAT 3		
Industrial decarbonation	DECRB 3		
Data and Energy	M1EDE 4		
Design-to-X	DES2X 1,5		
Circular economics	And/or CIRCX or CMCE 1,5		
Corporate finance 2 - SEGF	Or STRA2 3		
Urban economics - SEGF	Or ECOGT 3		
<i>Courses to be chosen in the whole School catalogue</i>			
DIPLOMA SUPPLEMENT (imbrication)			
<i>Course to be chosen in the whole School course catalogue but IMI department</i>			

⁽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 IMI) which delivers the course :

- GCC : Génie Civil et Construction - Civil and Structural Engineering
- GMM : Génie Mécanique et Matériaux - Mechanical Engineering and Materials Science
- GI : Génie Industriel - Industrial engineering
- SEGF : Sciences économiques, Gestion, Finance - Economics, Management, Finance
- VET : Ville Environnement Transport - City, Environment, Transportation
- SHS - Sciences Humaines et Sociales - Humanities and Social Sciences