

**INDUSTRIAL ENGINEERING (GI)
DATA SCIENCE AND DECISION ENGINEERING (DSID) 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		
	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 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	2			
Analysis and design of transportation systems - VET	ACOST	3			
Energy : issues & demand-side management - VET	ENERG	3			
Courses to be chosen in the whole School catalogue					
DIPLOMA SUPPLEMENT (imbrication)					
Courses to be chosen in the whole School course catalogue but for IMI department					

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 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- IMI	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			
Courses to be chosen in the whole School catalogue					
DIPLOMA SUPPLEMENT (imbrication)					
Course to be chosen in the whole School course catalogue but for IMI department					

⁽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