

MECHANICAL ENGINEERING AND MATERIALS SCIENCE (GMM) ENERGY TRACK - 2025 2026		
YEAR 2 (M1) OF ENPC MSc IN ENGINEERING		ECTS
DEPARTMENT INCEPTION WEEKS (mandatory)		5
Sept. 8th to 12th	Seminar of the department - O2SEM*	1
Sept. 15th to 19th	Department study trip	1
Nov. 17th to 21st	ATHENS week - SEP	1,5
Feb. 2nd to 6th	Electricity markets (SEGF) or Hydrogen (VET)	1,5
SCHOOL CORE CURRICULUM (mandatory)		13
S3	Numerical statistics and data analysis - STNUM (IMI)**	1,5
S3	Life Cycle Analysis - ACV	1,5
S3	Geopolitics of ressources and things - SHS	3
S3	Business management - O2GE2 (MOOC + in person day on September 15th)	0,5
S4	Introduction to law - DROA	3
S4	Coaching and career guidance - AOP2	0,5
S4	Foresight and uncertainty	1,5
S4	Applications of Machine Learning - PRAMA (IMI)	1,5
ENERGY TRACK CORE CURRICULUM		17,5
S3	Economics of environment, energy, and sustainable development - ECENV (SEGF)	3
S3	Energy : issues & demand-side management - ENERG (VET)	3
S3	Fluid mechanics for incompressible flows - MECA 1 & 2 (GCC)	3
S4	Data and energy - M1EDE (VET)	4
S4	Corporate Finance 2 - STRA2 (SEGF) OR Markets, institutions and common goods - ECOPU (SEGF)	3
S4	Energy production engineering - INRGY	1,5
ELECTIVE COURSES TO BE CHOSEN IN THE LIST BELOW Choose courses for a minimum of 4,5 ECTS for S3 and 8 ECTS for S4		12,5
S3	Structural mechanics - MECST	3
S3	Macroeconomics - MACRO (SEGF)	3
S3	Environmental and industrial risks - RENIN (VET)	3
S3	Seminar "Challenges of Electricity in Energy Systems" - SSEPE	3
S3	Challenges, science and tools for the transition of cities and regions - DSTOV (VET)	3
S4	Local public finance and policies - FILOC (VET)	3
S4	Compressible flows and thermal transfer - AEROD	3
S4	Industrial decarbonation - DECRB (GI)	2
S4	VET department project - VETSD (VET)	5
ELECTIVE COURSES (free choice)		4,5
S4	Energy production engineering - INRGY	1,5
LANGUAGES		4
SPORT		1
ENGINEER INTERNSHIP		2,5
TOTAL YEAR 2 (M1)		60

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

** Letters in brackets in course's name stand for the department (other than GMM) which delivers the course :

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