

CIVIL ENGINEERING AND CONSTRUCTION (GCC) STRUCTURE AND GEOTECHNICS TRACK 2026-2027

YEAR 2 (M1) OF ENPC MSc IN ENGINEERING

ECTS

S7 (Fall)	DEPARTMENT INCEPTION WEEKS (mandatory)		3	30
	Week "Engineering geology : principles and practice"	02GEO ⁽¹⁾	1	
	Introduction to construction materials	02IMC	1	
	Week "Construction and biodiversity"	TRENC	1	
	SCHOOL CORE CURRICULUM		7,5	
	Numerical statistics and data analysis - IMI ⁽²⁾	STNUM	1,5	
	1 course to be chosen in our SHS department - SHS		3	
	Languages (3 modules for international students)		2	
	Professional support and guidance	AOP2	0,5	
	Sport		0,5	
	DEPARTMENT MANDATORY COURSES		16,5	
	Rock mechanics	MECSR	3	
	Structural mechanics (elastic structures)	MECST	3	
	Building materials and engineering design	CCMAT	3	
	Introduction to drawings and computer graphics	IDSMO	3	
Built works: from project to construction	OUVGC	3		
Thermics	TERGC	1,5		
MANDATORY COURSE TO BE CHOSEN ON A LIST		3		
Fluid mechanics for incompressible flows	MECA1&2	3		
Mechanics of deformable solids - For international students	MECGC	3		
ELECTIVE COURSES chosen among M1 courses in the School catalogue Additional ECTS credits outside GCC (except languages) count toward the 9 ECTS required for integrated Master's programs in M2				

S8 (spring)	DEPARTMENT INCEPTION WEEK (mandatory)		1,5	30
	Introduction to drawings and computers graphics (Rhino, Photoshop)	02DMO	1,5	
	SCHOOL CORE CURRICULUM		12	
	Introduction to law	DROA/DROE	3	
	Statistics : practice of learning methods - IMI	PRAMA	1,5	
	Foresight and uncertainty	PR1CE	1,5	
	Languages (3 modules for international students)		2	
	Psychosocial risks (RPS)		0,5	
	Sport		0,5	
	Engineer Internship		3	
	DEPARTMENT MANDATORY COURSES		12	
	Mechanics of elastic structures 2	MECS2	1,5	
	Plasticity, limit analysis and yield design	PLAST	1,5	
	Dynamics of structures and constructions	DYSTR	3	
	Structural design (theoretical part)	APST1	3	
	Design of geotechnical works (theory)	APGE1	3	
	Accessibility Day	JPACC	-	
	ELECTIVE COURSES		4,5	
1 course to be chosen in the list below				
Structural design - Application	EXPST	4,5		
Applied design of geotechnical works	EXPGE	4,5		
ELECTIVE COURSES chosen among M1 courses in the School catalogue Additional ECTS credits outside GCC (except languages) count toward the 9 ECTS required for integrated Master's programs in M2				
<i>Recommended</i> : Applied project for Machine Learning (PROMA)		1,5		

⁽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 GCC) which delivers the course :

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

GI : Génie Industriel - Industrial engineering

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

CIVIL ENGINEERING AND CONSTRUCTION (GCC) STRUCTURE AND GEOTECHNICS TRACK 2026-2027

YEAR 3 (M2) OF ENPC MSc IN ENGINEERING

ECTS

S9 (Fall)	DEPARTMENT INCEPTION WEEKS (mandatory)		4,5	30
	Week dedicated to : Masonry wall : conception, construction and deconstruction - 03ADL OR Building freeforms - 03ATC OR Design of an arch - 03ATT OR Earth construction - 03ATE		1,5	
	Future construction technologies : Techniques and Building Information Modeling (BIM) - CHBIM OR Challenge "Planning, Logistics, Environment" - 03AET		1,5	
	Department week OR ATHENS week - SEP		1,5	
	SCHOOL CORE CURRICULUM		3	
	Languages (3 modules for international students)		2	
	Feedback on long internships		03STA ⁽¹⁾ 1	
	DEPARTMENT CORE CURRICULUM		10,5	
	Teamwork : Dams - GCPBR OR Bridges - GCPPO OR Highway - GCPRO OR Marine energy - EXPHY OR Bioclimatic building - BABIO		7,5	
	Life cycle analysis : Theory (ANCYV) + Application (ANCGC)		3	
	DEPARTMENT MANDATORY COURSES		9	
	3 courses to be chosen in the list below and distributed over the 2 groups : Materials and Advanced			
	Materials (at least 1 course)			
	Reinforced and prestressed concrete		BAEP 1&2 3	
	Wooden structures		CASBO 3	
	Steel construction		CASME 3	
	Advanced courses (at least 1 course)			
	Advanced construction dynamics		DYNAV 3	
	Advanced structural design		COAST 3	
	Finite elements for civil engineering		CALEF 3	
	Geomechanics and advanced geotechnics		GEOME 3	
	Buildings energy and comfort performance		APAM1 3	
	Advanced concrete		BETAV 3	
ELECTIVE COURSES		3		
To be chosen in the list below or in the School catalogue, so as to validate 30 ECTS min. in the semester				
Civil engineering project management and economics		GEPKO 3		
Acoustics		ACOUS 1,5		
Bridge design and construction		COPO1 3		
Structures, energy and risks		CORI1 3		
Design of underground structures		COTU1 3		
Fluid mechanics for incompressible flows		MECA1&2 3		
Thermodynamics of Architecture - ENSAPE ⁽³⁾		THAR 1,5		
Building renovation : knowledge and practicies - ENSAPE ⁽³⁾		RENO 1,5		

S10	End of Study Project	30
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⁽²⁾ [Course offered by Paris Est School of Architecture \(ENSAPE\)](#)