

**CIVIL AND STRUCTURAL ENGINEERING  
(GCC, with Paris Est School of Architecture)  
STRUCTURE & ARCHITECTURE TRACK - 2026 2027**

**YEAR 2 (M1) OF ENPC MSc IN ENGINEERING**

ECTS

<b>S7 (Fall)</b>	<b>DEPARTMENT INCEPTION WEEKS (mandatory)</b>		<b>2</b>	<b>31,5</b>
	Representation seminar at ENSAPE <sup>(1)</sup>	EAREP <sup>(2)</sup>	1	
	Introduction to construction materials	02IMC	1	
	<b>SCHOOL CORE CURRICULUM</b>		<b>2,5</b>	
	Languages (3 modules for international students)		2	
	Professional support and guidance	AOP2	0,5	
	<b>DEPARTMENT CORE CURRICULUM</b>		<b>9</b>	
	Rock mechanics	MECSR	3	
	Structural mechanics (elastic structures)	MECST	3	
	Building materials and engineering design	CCMAT	3	
	<b>MANDATORY COURSES AT ENSAPE</b>		<b>18</b>	
	Material and structures	EATE2	2	
	Tools for projects 2	EAOUP	2	
	Infographics	EAINF	2	
Sketches	EACP1	2		
History of construction	EACO1	2		
Architecture project	EAPJ1	8		

<b>S8 (spring)</b>	<b>SCHOOL CORE CURRICULUM</b>		<b>11,5</b>	<b>36</b>
	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	
	Engineer Internship		3	
	<b>DEPARTMENT CORE CURRICULUM</b>		<b>13,5</b>	
	Mechanics of elastic structures 2	MECS2	1,5	
	Yield design	PLAST	1,5	
	Dynamics of structures and constructions	DYSTR	3	
	Structural design (theoretical part)	APST1	3	
	Structural design - Application	EXPST	4,5	
	Accessibility Day	JPACC	-	
<b>MANDATORY COURSES AT ENSAPE</b>		<b>11</b>		
Sketches 2	EACP2	2		
Architecture project 2	EAPJ2	9		

<sup>(1)</sup> Paris Est School of Architecture - See <https://www.paris-est.archi.fr/formations/master>

<sup>(2)</sup> This code is the course's code in our online catalogue : <https://gede.enpc.fr/Programme/Default.aspx?Langue=en>

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**YEAR 3 (M2) OF ENPC MSc IN ENGINEERING**

ECTS

<b>S9 (Fall)</b>	<b>DEPARTMENT INCEPTION WEEKS (mandatory)</b>		<b>3</b>	<b>33</b>
	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	
	<b>SCHOOL CORE CURRICULUM</b>		<b>3</b>	
	Languages (3 modules for international students)		2	
	Feedback on long internships	03STA <sup>(1)</sup>	1	
	<b>DEPARTMENT MANDATORY COURSE</b>		<b>3</b>	
	Advanced structural design - COAST	COAST	3	
	<b>DEPARTMENT MANDATORY COURSES ON A LIST (at least 2 courses)</b>		<b>6</b>	
	Reinforced and prestressed concrete	BAEP 1&2	3	
	Wooden structures	CASBO	3	
	Steel construction	CASME	3	
	<b>MANDATORY COURSES AT ENSAPE</b>		<b>15</b>	
	History and theories of architecture - EAAR2	EAAR2	2	
	Project Engineer/Architect - EAPJ3	EAPJ3	13	
	<b>ELECTIVE COURSES</b>		<b>3</b>	
	To be chosen in the list below or in the School catalogue, so as to validate 30 ECTS min. in the semester			
	Advanced construction dynamics	DYNAV	3	
	Concrete rheological properties and workability	BETAV	3	
	Acoustics	ACOUS	1,5	
Bridge design and construction	COPO1	3		
Structures, energy and risks	CORI1	3		
Design of underground structures	COTU1	3		
Life cycle analysis (Theory)	ANCYV	1,5		
Life cycle analysis (Application)	ANCGC	1,5		
Fluid mechanics for incompressible flows	MECA 1&2	3		
Thermodynamics of Architecture - ENSAPE <sup>(2)</sup>	THAR	1,5		
Building renovation : knowledge and practicies - ENSAPE	RENO	1,5		

<b>S10</b>	<b>End of Study Project</b>	<b>30</b>
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<sup>(2)</sup> 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

<sup>(2)</sup> [Course offered by Paris Est School of Architecture \(ENSAPE\)](#)