

**CIVIL AND STRUCTURAL ENGINEERING
(GCC, with Paris Est School of Architecture)
STRUCTURE & ARCHITECTURE TRACK - 2025 2026**

YEAR 2 (M1) OF ENPC MSc IN ENGINEERING		ECTS
INCEPTION WEEKS (mandatory)		2
September 2025 : 8th to 12th	Representation seminar at ENSAPE - EAREP *	1
September 2025 : 15th to 19th	Introduction to construction materials - O2IMC	1
CORE CURRICULUM (mandatory)		7
S3	Numerical statistics and data analysis - STNUM (IMI)	1,5
S3	Business management - O2GE2 (MOOC + in person day on September 15th)	0,5
S3	Coaching and career guidance - AOP2	0,5
S4	Introduction to law	3
S4	Foresight and uncertainty - PR1CE	1,5
DEPARTMENT MANDATORY COURSES		19,5
S3	Rock mechanics - MECSR	3
S3	Structural mechanics (elastic structures) - MECST	3
S3	Building materials and engineering design - CCMAT	3
S4	Mechanics of elastic structures 2 - MECS2	1,5
S4	Dynamics of structures and constructions - DYSTR	3
S4	Structural design (Theoretical part + application) - APST1 & EXPST	6
S4 - April 11th	Accessibility Day - JPACC	0
MANDATORY COURSES AT PARIS EST SCHOOL OF ARCHITECTURE***		30
S3	Material and structures - EATE2	2
S3	Tools for projects 1 - EAOUP	1
S3	Infographics - EAINF	2
S3	Sketches - EACP1	2
S3	Architecture project (Semester 1) - EAPJ1	8
S3	History of construction - EACO1	3
S4	Sketches (continuation) - EACP2	2
S4	Tools for projects 2 - EAOU2	1
S4	Architecture project (Semester 2) - EPAJ2	9
S3 & S4	LANGUAGES (mandatory)	4
	ENGINEER INTERNSHIP **	2,5
TOTAL YEAR 2 (M1)		65

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

** The ects of engineer internship will be acquired at the beginning of year 3 (M2)

*** See <https://www.paris-est.archi.fr/formations/master>

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YEAR 3 (M2) OF ENPC MSc IN ENGINEERING

		ECTS
September 2025 : 4th & 5th	FEEDBACK ON ENGINEER INTERNSHIP - REX* (only for long internships) - 03STA	1,5
	INCEPTION WEEKS (mandatory)	2,5
September 2025 : 8th to 12th	Week dedicated to Building freeforms - 03ATC OR Design of an arch - 03ATT	1,5
September 2025 : 15th to 19th	Future construction technologies : Techniques and Building Information Modeling (BIM) - CHBIM OR Challenge "Planning, Logistics, Environment" - 03AET	1
DEPARTMENT MANDATORY COURSES		9
S5	Reinforced and prestressed concrete - BAEP 1 & 2 (GMM)	3
S5	Steel construction - CASME	3
S5	Advanced structural design - COAST	3
MANDATORY COURSES AT PARIS EST SCHOOL OF ARCHITECTURE***		15
S5	History and theories of architecture - EAAR2	2
S5	Project Engineer/Architect - EAPJ3	11
S5	Envelopes - EARR1	2
ELECTIVE COURSES		3
1 course (3 ECTS minimum) to be chosen in the list below		
S5	Civil engineering project management and economics - GEPCO	3
S5	Bridge design and construction - COPO1	3
S5	Structures, energy and risks - CORI 1	3
S5	Design of underground structures - COTU1	3
S5	Advanced construction dynamics - DYNAV	3
S5	Finite elements for civil engineering - CALEF	3
S5	Concrete rheological properties and workability - BETAV	3
S5	Wooden structures - CASBO	3
S5	Life cycle analysis (Theory) - ANCYV	1,5
S5	Life cycle analysis (Application) - ANCGC	1,5
S5	Thermodynamics of Architecture - THAR (ENSAPE****)	1,5
S5	Building renovation : knowledge and practicies - RENO (ENSAPE****)	3
S5	LANGUAGES (mandatory)	2
S6	END-OF-STUDY PROJECT (17 weeks at least)	30
TOTAL YEAR 3 (M2)		63

* The 1,5 ects obtained during Feedback of Engineer internship are excluded from the required 25,5 ects

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*** ENSAPE : Ecole Nationale Supérieure d'Architecture de Paris-Est