CIVIL AND STRUCTURAL ENGINEERING
(GCC, with Paris Malaquais 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	Introduction to drawings and computer graphics (Rhino, Photoshop) 1 - O2DMO*	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 MALAQUAIS SCHOOL OF ARCHITECTURE*		**30**
S3	Studio project - Structuration - MASTP	8
S3	Introduction to the history and theory of Architecture - MAIHT	2
S3	History of construction - MAHIS	2
S3	Geometry in space - MADES	2
S3	Utopia, Architecture and criticism - MAUAC	2
S3	Seminar/course on construction : Complex structures - MASCO OR Digital matters OR Eco-oriented construction	2
S4	Seminar/course on : Elements OR Architecture and Ecology OR Digital matters OR Eco-oriented construction	2
S4	Architecture in Europe 1500-1900	2
S4	Architecture project : Scenographic universes OR DarWin OR Working tomorrow OR Digital mosaïc	8
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://paris-malaquais.archi.fr/etudes/

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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 MALAQUAIS SCHOOL OF ARCHITECTURE***	**15**
	ELECTIVE COURSES **1 course (3 ECTS minimum) to be chosen in the list below**	**3**
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