ESTP PARIS
L'ÉCOLE DES GRANDS PROJETS

ENGLISH TAUGHT PROGRAM IN CIVIL ENGINEERING

ESTP PARIS - MAJOR IN CIVIL ENGINEERING
2022-2023
YEAR 1*

*equivalent last year of Bachelor's Degree

S05 - Civil Engineering	Hours per semester	Credits ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	147,50	11
Engineering Mathematics 1	40,00	3
Engineering Mechanics 1	30,00	2
Continuum Mechanics	33,50	2
Data Analysis	25,00	2
Innovation Challenge	19,00	2
UE - ENGINEERING FUNDAMENTALS & METHODOLOGY	104,50	10
Construction Materials 1	40,00	3
Energy Efficiency	21,50	3
Introduction to Building Information Modelling (BIM)	21,00	2
Introduction to Land Surveying	22,00	2
UE - CORPORATE ENVIRONMENT	57,50	5
Environmental Assessment	15,00	1
Business Economics	10,00	1
Labour Law	10,00	1
Introduction to Project Management	12,50	1
Urban Sociology	10,00	1
UE - SOFT SKILLS & LANGUAGES	46,50	4
English 1	30,00	2
Professional Communication 1	13,50	2
Professional conferences	3,00	
French as a foreign language (FLE)	30,00	1
Foreign language (optional)	30,00	1
	356,00	30

S06 - Civil Engineering	Hours per semester	Credits ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	119,00	9
Numerical Analysis	28,50	2
Digital Analysis Project32	19,00	2
Probability and statistics	32,00	2
Strength of Materials 1	39,50	3
UE - ENGINEERING FUNDAMENTALS & METHODOLOGY	108,00	10
Construction Materials 2	28,00	3
Soil Mechanics	26,00	2
Fluid Mechanics and Applied Hydraulics	30,50	3
Wood Construction	12,00	1
Introduction to Research	11,50	1
UE - SCIENCES &TECHNICAL SKILLS	68,50	4
ConstructionTechnology	15,00	1
Worksite Organisation	20,00	1
Introduction to Architecture	13,50	1
Roads and Main Networks	20,00	1
UE - CORPORATE ENVIRONMENT	54,50	4
Management responsable	10,50	1
Fundamentals of Accounting	15,50	1
Health and Safety at Work 1	9,00	1
Design thinking and innovation	6,00	
Construction Law 1	13,50	1
UE - SOFT SKILLS & LANGUAGES	46,50	3
English 2	30,00	2
Professional Communication 2	13,50	1
Professional conferences	3,00	
French as a foreign language (FLE)	30,00	1
Foreign language (optional)	30,00	1
	396,50	30

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IN CIVIL ENGINEERING

ESTP PARIS - MAJOR IN CIVIL ENGINEERING
2022-2023
YEAR 2*

*equivalent first year of Master's Degree

S07 - Civil Engineering	Hours per semester	Credits ECTS
UE - ENGINEERING FUNDAMENTALS & METHODOLOGY	140,00	10
Structural Mechanics	43,00	3
Reinforced Concrete	44,00	3
Environmental & Sustainable Engineering	13,00	1
Geographic Information Systems (GIS)/City Information Modelling (CI	26,00	2
Research Exposure	14,00	1
UE - SCIENCES & TECHNICAL SKILLS	138,50	11
Conceptual Design of Building Structures	40,00	3
Geotechnical Engineering and soil mechanics 1	39,50	3
Steel Construction 1	24,00	2
Civil Engineering project 1	19,50	2
BIM	15,50	1
UE - CORPORATE ENVIRONMENT	59,00	6
Business Game	15,00	1
International Law	10,00	1
Cross cultural negotiation	12,00	1
Project Management	22,00	2
Internship Report		1
UE - SOFT SKILLS & LANGUAGES	37,50	3
English 3	30,00	2
Professional skills	7,50	1
French as a foreign language (FLE)	30,00	1
Foreign language (optional)	7,00	1
	375,00	30

S08 - Civil Engineering	Hours per semester	Credits ECTS
UE - ENGINEERING FUNDAMENTALS & METHODOLOGY	114,50	9
Prestressed concrete	40,50	3
Finite Element Methods	27,50	2
Smart City, Smart Grid & Smart Building	32,50	3
Research Project	14,00	1
UE - SCIENCES & TECHNICAL SKILLS	134,50	10
Civil Engineering project 2	40,50	2
Structure Dynamics (structure calculus, seismic structure)	39,00	3
Geotechnical Engineering and soil mechanics 2	31,00	3
Steel Construction 2	24,00	2
UE - CORPORATE ENVIRONMENT	90,00	7
Financial Accounting and Organizational Management	28,00	2
Project Management Hackathon	15,00	1
Business Development	10,00	1
Ethics in Civil Engineering	10,00	1
Quality Management	13,00	1
Occupational Health and Safety (SST 2)	14,00	1
UE - SOFT SKILLS & LANGUAGES	51,50	4
English 4	30,00	2
Public Speaking	21,50	2
French as a foreign language (FLE)	30,00	1
Foreign language (optional)	7,00	1
	390,50	30

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ESTP PARIS - MAJOR IN CIVIL ENGINEERING 2022-2023 YEAR 3*

**equivalent last year of Master's Degree*

S09 - Civil Engineering	Hours per semester	Credits ECTS
UE - SCIENCES & TECHNICAL SKILLS	123,50	11
Hydraulic Design and Experiments	36,00	3
Pathology of Structures	29,00	3
Bridge Design	39,00	3
Roads and Methods	19,50	2
UE - CORPORATE ENVIRONMENT	40,50	3
Major Infrastructure projects in an International Context	24,50	2
Lean Management	16,00	1
UE - SOFT SKILLS & LANGUAGES	0,00	1
Internship Report		1
Conference	1,50	
French as a foreign language (FLE)	30,00	1
Languages (optional)	7,00	1
	164,00	15
UE - OPTION	200,00	15
One minor to choose from :	200,00	15
•Landscape and Real Estate Planning		
•Engineering in an International context		
•Structures		
•Sustainable Buildings and cities		
•Building Information Modeling (BIM)		
•Constructability and Project Culture		
•Civil engineering of complex and nuclear structures		
•Roads and Civil Engineering Structures		
•Real Estate Development		
•Underground Infrastructures and Works		
•Engineering and Energy Efficiency		
•Engineer-Designer (ESTP Campus Troyes)		
•Construction 4.0 (ESTP Campus Troyes)		
•Smart City (ESTP Campus Dijon)		
•Entrepreneurship		
	364,00	30

S10 - Civil Engineering	Hours per semester	ECTS
UE - ENGINEERING PROJECT		30
6-month internship (+ report and oral defense)	200	30
		30