

ENGLISH TAUGHT PROGRAM IN CIVIL ENGINEERING

 <p>ESTP PARIS L'ÉCOLE DES GRANDS PROJETS</p>	ESTP PARIS - MAJOR IN CIVIL ENGINEERING
	2022-2023
	YEAR 1*

*equivalent first year of Master's Degree

S05 - Civil Engineering	Hours per semester	Credits ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS		
Engineering Mathematics 1	40,00	3
Engineering Mechanics	30,00	2
Continuum Mechanics	33,50	2
Data Analysis	25,00	2
Innovation Challenge	20,00	2
UE - ENGINEERING FUNDAMENTALS & METHODOLOGY		
Construction Materials 1	40,00	3
Energy Efficiency	32,00	3
Introduction to Building Information Modelling (BIM)	23,00	2
Introduction to Land Surveying	22,00	2
UE - CORPORATE ENVIRONMENT		
Environmental Assessment	15,00	1
Business Economics	10,00	1
Business Law	15,00	1
Introduction to Project Management	15,00	1
Urban Sociology	10,50	1
UE - SOFT SKILLS & LANGUAGES		
English 1	30,00	2
Professional Communication 1 & Portfolio	22,00	2
Professional conferences	3,00	
French as a foreign language (FLE)	30,00	1
Foreign language (optional)	30,00	1
386,00		30

S06 - Civil Engineering	Hours per semester	Credits ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS		
Numerical Analysis	30,00	2
Digital Analysis Project	19,00	2
Probability and statistics	30,00	2
Strength of Materials 1	40,00	3
UE - ENGINEERING FUNDAMENTALS & METHODOLOGY		
Construction Materials 2	30,00	3
Soil Mechanics	26,00	2
Fluid Mechanics and Applied Hydraulics	30,50	3
Introduction to European Legislation	10,00	1
Introduction to Research	15,50	1
UE - SCIENCES & TECHNICAL SKILLS		
Construction Technology	18,50	1
Worksite Organisation	17,00	1
Introduction to Architecture	15,00	1
Roads and Main Networks	13,50	1
UE - CORPORATE ENVIRONMENT		
Introduction to Management	15,50	1
Fundamentals of Accounting	15,50	1
Health and Safety at Work 1	9,00	1
Construction Law 1	15,00	1
UE - SOFT SKILLS & LANGUAGES		
English 2	30,00	2
Professional Communication 2 & Portfolio	15,00	1
French as a foreign language (FLE)	30,00	1
Foreign language (optional)	30,00	1
395,00		30

ENGLISH TAUGHT PROGRAM 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	107,50	9
Structural Mechanics	32,00	3
Reinforced Concrete	44,00	3
Research Exposure	11,50	1
Environmental & Sustainable Engineering	20,00	2
UE - SCIENCES & TECHNICAL SKILLS	162,00	11
Conceptual Design of Building Structures	40,00	3
Civil Engineering project 1	35,00	2
Geographic Information Systems (GIS) / City Information Modelling (CIM)	25,00	2
Steel Construction 1	30,00	2
Geotechnical Engineering 1	32,00	2
UE - CORPORATE ENVIRONMENT	72,00	6
Business Game	15,00	1
International Law	10,00	1
Professional Negotiation (call for project)	20,00	1
Project Management	27,00	2
Internship Report		1
UE - SOFT SKILLS & LANGUAGES	54,00	4
English 3	23,00	2
Intercultural communication	15,00	1
Professional skills 3	16,00	1
French as a foreign language (FLE)	30,00	1
Foreign language (optional)	30,00	1
	395,50	30

S08 - Civil Engineering	Hours per semester	Credits ECTS
UE - ENGINEERING FUNDAMENTALS & METHODOLOGY	142,50	11
Prestressed concrete	40,50	3
Steel Construction 2	28,00	2
Geotechnical Engineering 2	32,00	3
Finite Element Methods	27,00	2
Research Project	15,00	1
UE - SCIENCES & TECHNICAL SKILLS	124,00	9
Civil Engineering project 2	30,00	2
Smart City, Grid & Building	40,00	3
BIM - Team Work	15,00	1
Structure Dynamics (structure calculus, seismic structure)	39,00	3
UE - CORPORATE ENVIRONMENT	80,50	6
Financial Accounting and Organizational Management	30,00	2
Project Management Hackathon	15,00	1
Ethics	10,00	1
Quality Management	15,00	1
Health and safety at work 2	10,50	1
UE - SOFT SKILLS & LANGUAGES	51,50	4
English 4	30,00	2
Public Speaking	21,50	1
French as a foreign language (FLE)	30,00	1
Foreign language (optional)	30,00	1
	398,50	30

*equivalent last year of Master's Degree

S09 - Civil Engineering	Hours per semester	Credits ECTS
UE - SCIENCES & TECHNICAL SKILLS	124,50	10
Hydraulic Design and Experiments	36,00	3
Pathology of Structures	30,00	2
Bridge Design	39,00	3
Roads and Methods	19,50	2
UE - UE - CORPORATE ENVIRONMENT	39,50	3
Major Infrastructure projects in an International Context	24,50	2
Lean Management	15,00	1
UE - SOFT SKILLS & LANGUAGES	17,50	2
English 5	16,00	1
Internship Report		1
Conference	1,50	
FLE (French as a second language)	30,00	1
	181,50	15
UE - OPTION		
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		
•Entrepreneurship		
	181,50	30

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