STUDY PLAN



ESTP PARIS - MAJOR IN BUILDING CONSTRUCTION 2021-2022 YEAR 1*

Semester 1 (equivalent semester 5 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	201,50	11
Materials Science (Polymers, Wood, Composites, Steel, Ceramics)	16	1
Engineering Mathematics 1	30	2
Solid & Vibration Mechanics	22,50	1
Continuum Mechanics	33,50	2
Numerical Programming and Data Analysis	25	2
Scientific Project	19	1
In-depth review of mathematics	55,50	2
UE - ENGINEERING SCIENCES AND METHODS	126,50	10
Construction Materials 1	27,50	2
Baseload Electricity	27,50	2
Basic Energetics	26,50	2
Building Information Modeling (BIM)	23	2
Introduction to Land Surveying	22	2
UE - MANAGEMENT AND SOCIETY	63	5
Climate Change & Energy Transition	15	1
Business Law	15	1
Business Economics	10	1
Project Management 1	12,50	1
Urban Sociology	10,50	1
UE - SOFT SKILLS ET LANGUAGES	99	4
English 1	30	2
Leadership and Communication 1 (BL)	15,50	1
Soft Skills Portfolio 1	4	1
ESTP Paris Technical conferences	3	0
Foreign language (Optional)	30	0
Foreign language (Optional)	17	0
	490	30

Semester 2 (equivalent semester 6 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	134	9
Numerical analysis	28,50	2
Engineering mathematics 2	32	2
Numerical modeling project	19	2
Strength of materials 1	39,50	2
Signal digital processing	15	1
UE - ENGINEERING SCIENCES AND METHODS	106,50	8
Performance of concrete materials	13	1
Soil mechanics	26	2
Fluid mechnics and applied hydraulics	30,50	2
Introduction to research	15,50	1
Introduction to legislation (Eurocodes)	8	1
Roads and main netwoks	13,50	1
UE - SPECIALISATION SCIENCES AND METHODS	71	4
Technical building design	42	2
Architecture - conception - coordination 1	29	2
UE - MANAGEMENT AND SOCIETY	65	5
General Accounting	15,50	1
Construction law	15	1
Ethics management	15,50	1
Health & safety 1 (BL)	9	1
Design Thinking and Innovation	10	1
UE - SOFT SKILLS ET LANGUAGES	90	4
English 2	30	2
Leadership and Communication 2 (BL)	8	1
Soft Skills Portfolio 2	2,50	1
ESTP Paris Technical conferences	2,50	0
Foreign language (Optional)	30	0
Foreign language (Optional)	16,50	0
roreign language (Optional)	466.5	30

Total Year 1	Hours	ECTS
	956.50	60



ESTP PARIS - MAJOR IN BUILDING CONSTRUCTION 2021-2022 YEAR 2*

Semester 1 (equivalent semester 7 of higher education)	Hours per semester	ECTS
UE - ENGINEERING SCIENCES AND METHODS	131	10
Reinforced Concrete 1	32,50	2
Geotechnics 1	29	2
Finite elements methods	25,50	2
Research project	11,50	2
Metal construction 1	32,50	2
UE - ENGINEERING TECHNIQUES AND METHODS	139	10
Architecture - conception - coordination 2	34	3
Technical Building Design 2	33,50	2
Strength of Materials 2	40,50	3
Building Renovation and Reclassification	16	1
Prestressed concrete	15	1
UE - MANAGEMENT AND SOCIETY	73,50	5
Business Game	15	1
Project management	15,50	1
Urban planning and construction law 2	15	1
Analytical Accounting	15,50	1
Pricing study - methodology	12,50	1
UE - SOFT SKILLS ET LANGUAGES	76,5	5
English 3	23	2
Leadership and Communication 3 (BL)	8	1
Soft Skills Portfolio 3	3,50	1
1st year training period report	0	1
ESTP Paris Technical conferences	3	0
Foreign language (Optional)	22,50	0
Foreign language (Optional)	16,50	0
	420,0	30

Semester 2 (equivalent semester 8 of higher education)	Hours per semester	ECTS
UE - ENGINEERING TECHNIQUES AND METHODS	116	8
Geographic Information Systems SIG/CIM	28,50	2
Building Information Modeling (BIM)	12,50	1
Smart Grid/Smart Cities/Smart Building	18,50	1
Engineering project	19	2
Ecological and Environmental Engineering	20	1
Acoustic	17,50	1
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UE - ENGINEERING TECHNIQUES AND METHODS	188	13
Geotechnics 2	21	2
Structural calculations (earthquake resistance)	26,50	2
Climate Engineering	18	1
Planning	15	1
Construction site technology	16,50	1
Reinforced Concrete 2	43	3
Metal construction project 2	37	2
Performance of concrete materials 2	11	1
UE - MANAGEMENT AND COMMUNICATION	58	5
Quality management	13	1
Public and Private Contracts	10,50	1
Hackathon ESTP Paris	15,0	1
Intercultural management	10,5	1
Health & safety 2 (BL)	9	1
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UE - SOFT SKILLS ET LANGUAGES	91	4
English 4	30	2
Leadership and Communication 4 (BL)	8	1
Soft Skills Portfolio 4	3,50	1
ESTP Paris Technical conferences	3	0
Foreign language (Optional)	30	0
Foreign language (Optional)	16,50	0
	453	30

Total Year 2	Hours	ECTS
	972	60



ESTP PARIS - MAJOR IN BUILDING CONSTRUCTION 2021-2022

YEAR 3*

Semester 1 (equivalent semester 9 of higher education)	Hours per semester	ECTS
UE - ENGINEERING TECHNIQUES AND METHODS	82	6
Wood Construction	23,50	2
Advanced Structural Calculation	19	1
Pathology os structures	17,50	1
Building life cycle analysis	12	1
Construction Risk Management	10	1
UE - MANAGEMENT AND SOCIETY	40,5	4
Ethics management	7	1
Management Techniques	15	1
Management Control - Finance Analysis	18,50	2
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UE- SOFT SKILLS ET LANGUAGES	78,0	5
Leadership and Communication 5 (BL)	6,50	1
English 5	30	2
ESTP Paris Technical conferences	3	0
Soft Skills Portfolio 5	2,50	1
2nd year training period report	0	1
Foreign language (Optional)	19,50	0
Foreign language (Optional)	16,50	0
UE - OPTION	200	15
One minor to choose from :	200	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		
	400,50	30

Semester 2 (equivalent semester 10 of higher education)	Hours per semester	ECTS
UE - ENGINEERING PROJECT		30
6-month training period (+ report and oral defense)	n/a	30
		30

Total Year 3	Hours	ECTS
	n/a	60



ESTP PARIS - MAJOR IN PUBLIC WORKS 2021-2022 YEAR 1*

Semester 1 (equivalent semester 5 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	201,50	11
Materials Science	16	1
Engineering Mathematics 1	30	2
Solid & Vibration Mechanics	22,50	2
Continuum Mechanics	33,50	2
Numerical Programming and Data Analysis	25	2
Scientific Project	19	1
In-depth review of mathematics	55,50	1
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UE - ENGINEERING SCIENCES AND METHODS	126,50	10
Construction Materials 1	27,50	2
Baseload Electricity	27,50	2
Basic Energetics	26,50	2
Building Information Modeling (BIM)	23	2
Introduction to Land Surveying	22	2
UE - MANAGEMENT AND SOCIETY	63	5
Climate Change & Energy Transition	15	1
Business Economics	10	1
Business Law	15	1
Project Management 1	12,50	1
Urban Sociology	10,50	1
on the second of	12,22	
UE - SOFT SKILLS ET LANGUAGES	52,50	4
English 1	30	2
Leadership and Communication 1 (BL)	15,50	1
Soft Skills Portfolio 1	4	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	30	0
Foreign language 3 (Optional)	16,50	0
	443,50	30

Semester 2 (equivalent semester 6 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	134	9
Numerical analysis	28,50	2
Engineering mathematics 2	32	2
Numerical modeling project	19	2
Strength of materials 1	39,50	2
Signal digital processing	15	1
UE - ENGINEERING SCIENCES AND METHODS	106,50	8
Performance of concrete materials	13	1
Soil mechanics	26	2
Fluid mechnics and applied hydraulics	30,50	2
Introduction to research	15,50	1
Introduction to legislation (Eurocodes)	8	1
Roads and main netwoks	13,50	1
UE - SPECIALISATION SCIENCES AND METHODS	60	4
Earthwork applied to public works	18,50	1
Worksite organisation	17	1
Road innovation	8,50	1
Land surveying applied to public works	16	1
UE - MANAGEMENT AND SOCIETY	65	5
Design Thinking and Innovation	10	1
Ethics management	15.50	1
Fundamentals of accounting	15,50	1
Health & safety at work 1 (BL)	9	'
Construction law 1	15	1
Construction law 1	13	
UE - SOFT SKILLS ET LANGUAGES	43.50	4
English 2	30	2
Leadership and Communication 2 (BL)	8	
Soft Skills Portfolio 2	2,50	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	30	0
Foreign language 3 (Optional)	16.50	0
V V (Tree of	409	30

Total Year 1	Hours	ECTS
	852,50	60



ESTP PARIS - MAJOR IN PUBLIC WORKS 2021-2022 YEAR 2*

Semester 1 (equivalent semester 7 of higher education)	Hours per semester	ECTS
UE - ENGINEERING SCIENCES AND METHODS	124,50	10
Reinforced Concrete 1	32,50	2
Finite elements methods	19	2
Metal construction	32,50	2
Research Project	11,50	2
Geotechnics	29	2
UE07-12 - ENGINEERING TECHNIQUES AND METHODS	158	10
Prestressed concrete 1	32,50	2
Dimensioning of road infrastructures	12	1
Analysys of roads design	27,50	2
Strength of Materials 2	41	2
Worksite technology	23	2
Roadway structures	21,50	1
UE - MANAGEMENT AND SOCIETY	73,50	5
Construction law 2	15	1
Analytical accounting	15,50	1
Business Game	15	1
Project Management	15,50	1
Pricing study - methodology	12,50	1
UE - SOFT SKILLS ET LANGUAGES	37,50	5
English 3	23	2
Leadership and Communication 3 (BL)	8	1
Soft Skills Portfolio 3	3.50	1
1st year Training Period Report	0	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	22.50	0
Foreign language 3 (Optional)	16,50	0
	393	30

Semester 2 (equivalent semester 8 of higher education)	Hours per semester	ECTS
UE - ENGINEERING SCIENCES AND METHODS	116	8
Geographic Information Systems SIG/CIM	28,50	2
Collaborative Building Information Modeling (BIM)	12,50	1
Smart Grid/Smart Cities/Smart Building	18,50	1
Engineering project	19	2
Ecological and Environmental Engineering	20	1
Acoustics	17,50	1
UE08-11 - ENGINEERING TECHNIQUES AND METHODS	165	13
Structure calculations	33	2
Reinforced Concrete 2	35,50	3
Geotechnics 2	35	3
Hydraulic installations	37,50	2
Prestressed concrete 2	24	3
UE - MANAGEMENT AND SOCIETY	58	5
Quality Management	13	1
Health & safety at work 2 (BL)	9	1
Intercultural management (ENG)	10,50	1
Public and Private Contracts	10,50	1
Hackathon ESTP Paris	15	1
UE - SOFT SKILLS ET LANGUAGES	44,50	4
English 4	30	2
Leadership and Communication 4 (BL)	8	1
Soft Skills Portfolio 4	3,50	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	30	0
Foreign language 3 (Optional)	16,50	0
	383,5	30

Total Year 2	Hours	ECTS
	776,50	60



ESTP PARIS - MAJOR IN PUBLIC WORKS 2021-2022 YEAR 3*

Semester 1 (equivalent semester 9 of higher education)	Hours per semester	ECTS
UE - ENGINEERING TECHNIQUES AND METHODS	97,5	6
Bridges	25	1
Marine works	23	1
Roads and mobility infrastructures	7	1
Urbanism & architecture	10.50	1
Metal construction project	32	2
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UE - MANAGEMENT AND SOCIETY	40,5	4
Management Control - Finance Analysis	18,50	2
Ethics management	7	1
Management Techniques	15	1
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UE - SOFT SKILLS ET LANGUAGES	78	5
English 5	30	2
Leadership and Communication 5 (BL)	6,50	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	19,50	0
Foreign language 3 (Optional)	16,50	0
2nd year training period report	0	1
Soft Skills Portfolio 5	2,50	1
UE - OPTION	200	15
One minor to choose from :	200	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		
	338	30

Semester 2 (equivalent semester 10 of higher education)	Hours per semester	ECTS
UE - ENGINEERING PROJECT		30
6-month training period (+ report and oral defense)	n/a	30
		30

Total Year 3	Hours	ECTS
	n/a	60



ESTP PARIS - MAJOR IN TOPOGRAPHY 2021-2022 YEAR 1*

Semester 1 (equivalent semester 5 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	201,50	11
Materials Science (Polymers, Wood, Composites, Steel, Ceramics)	16	1
Engineering Mathematics 1	30	2
Solid & Vibration Mechanics	22,50	2
Continuum Mechanics	33,50	2
Numerical Programming and Data Analysis	25	2
Scientific Project	19	1
In-depth review of mathematics	55,50	1
UE - ENGINEERING SCIENCES AND METHODS	126,5	10
Construction Materials 1	27,50	2
Baseload Electricity	27,50	2
Basic Energetics	26,50	2
Building Information Modeling (BIM)	23	2
Introduction to Land Surveying	22	2
UE - MANAGEMENT AND SOCIETY	63	5
Climate Change & Energy Transition	15	1
Labour Law	15	1
Business Economics	10	1
Project Management 1	12,50	1
Urban Sociology	10,50	1
UE - SOFT SKILLS ET LANGUAGES	99	4
English	30	2
Leadership and Communication 1 (BL)	15,50	1
Soft Skills Portfolio 1	4	1
Foreign language 2 (Optional)	30	0
Foreign language 3 (Optional)	16,50	0
ESTP Paris Technical conferences	3	0
	490	30

Semester 2 (equivalent semester 6 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	134	9
Numerical analysis	28,50	2
Engineering mathematics 2	32	2
Numerical modeling project	19	2
Strength of materials 1	39,50	2
Signal digital processing	15	1
UE - ENGINEERING SCIENCES AND METHODS	107	8
Performance of concrete materials	13	1
Soil mechanics	26	2
Fluid mechnics and applied hydraulics	30,50	2
Introduction to research	15,50	1
Introduction to legislation (Eurocodes)	8,0	1
Roads and main netwoks	13,50	1
UE - SCIENCES ET TECHNIQUES DE LA SPÉCIALITÉ	70	4
Surveying tools	48	3
Delineation and earthworks	22	1
UE - MANAGEMENT AND SOCIETY	65	5
Fundamentals of accounting	15,50	1
Construction law 1	15	1
Ethics management	15,50	1
Health & safety 1 (BL)	9	1
Design Thinking and Innovation	10	1
UE - SOFT SKILLS ET LANGUAGES	90	4
English	30	2
Leadership and Communication 2 (BL)	8	1
Soft Skills Portfolio 2	2,50	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	30	0
Foreign language 3 (Optional)	16,50	0
	465,50	30

Total Year 1	Hours	ECTS
	955,50	60



ESTP PARIS - MAJOR IN TOPOGRAPHY 2021-2022 YEAR 2*

Semester 1 (equivalent semester 7 of higher education)	Hours per semester	ECTS
UE - ENGINEERING TECHNIQUES AND METHODS	124,50	10
Reinforced Concrete 1	32,50	2
Research Project	11,50	2
Geotechnics	29	2
Finite elements methods	19	2
Metal construction	32,50	2
UE - ENGINEERING TECHNIQUES AND METHODS	168	10
Astronomy	12	1
Topometry	41,50	2
Surveying Calculation and Computing	24	2
Urban topometry project	28	2
Photogrammetry	33	2
Geodesy	29,50	1
UE - MANAGEMENT AND SOCIETY	74	5
Construction law 2	15	1
Analytical accounting	15,50	1
Project management	15,50	1
Business Game	15	1
Pricing study - methodology	12,50	1
UE - SOFT SKILLS ET LANGUAGES	37,50	5
English	23	2
Leadership and Communication 3 (BL)	8	1
Soft Skills Portfolio 3	3,50	1
1st year Training Period Report	0	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	22,50	0
Foreign language 3 (Optional)	16,50	0
	403,5	30

Semester 2 (equivalent semester 8 of higher education)	Hours per semester	ECTS
UE - ENGINEERING TECHNIQUES AND METHODS	116	8
Engineering project	19	2
Collaborative Building Information Modelling (BIM)	12,50	1
Smart Grid/Smart Cities/Smart Building	18,50	1
Ecological and Environmental Engineering	20	1
Acoustics	17,50	1
Geographic Information Systems SIG/CIM	28,50	2
UE - ENGINEERING TECHNIQUES AND METHODS	160	13
Multidisciplinary topgraphy project	40	3
Automation of positioning techniques	10	1
Satellite positioning methods	44	3
Remote sensing	19	2
Land register	15	1
Land & property law	13	1
Programming with Dynamo (Revit)	19	2
UE - MANAGEMENT AND SOCIETY	58	5
Public and Private Contracts	10,50	1
Quality Management	13	1
Health & saftey 2 (BL)	9	1
Hackathon ESTP Paris	15	1
Intercultural management (ENG)	10,50	1
UE - SOFT SKILLS ET LANGUAGES	44,5	4
English	30	2
Leadership and Communication 4 (BL)	8	1
Soft Skills Portfolio 4	3,50	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	30	0
Foreign language 3 (Optional)	16,50	0
	378,5	30

Total Year 2	Hours	ECTS
	782	60



ESTP PARIS - MAJOR IN TOPOGRAPHY 2021-2022 YEAR 3*

Semester 1 (equivalent semester 9 of higher education)	Hours per semester	ECTS
UE - ENGINEERING TECHNIQUES AND METHODS	82	6
Urban and Agricultural Hydraulics	15	1
Business management	10	1
Detection of underground networks and burried structures	12	1
Geographic Information Systems 3	26	2
Laser Scanning	19	1
UE07-13 - SOFT SKILLS ET LANGUAGES	42	5
Soft Skills Portfolio 3	2,50	1
Leadership and Communication 5 (BL)	6,50	1
English 5	30	2
2nd year training period report	0	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	19,50	0
Foreign language 3 (Optional)	16,50	0
UE - MANAGEMENT AND SOCIETY	40.5	4
Ethics in civil engineering (ENG)	7	1
Lean management	15	1
Management Control - Finance Analysis	18,50	2
UE - OPTION	200	15
One minor to choose from :	200	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		
	365	30

Semester 2 (equivalent semester 10 of higher education)	Hours per semester	ECTS
UE - ENGINEERING PROJECT		30
6-month training period (+ report and oral defense)	n/a	30
		30

Total Year 3	Hours	ECTS
	n/a	60



ESTP PARIS - MAJOR IN MECHANICAL, ELECTRICAL & ENERGY ENGINEERING 2021-2022

Semester 1 (equivalent semester 5 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	202	11
Materials Science (Polymers, Wood, Composites, Steel, Ceramics)	16	1
Engineering Mathematics 1	30	2
Solid & Vibration Mechanics	22,50	2
Continuum Mechanics	33,50	2
Numerical Programming and Data Analysis	25	2
Scientific Project	19	1
In-depth review of mathematics	55,50	1
UE - ENGINEERING SCIENCES AND METHODS	126,5	10
Construction Materials 1	27,50	2
Baseload Electricity	27,50	2
Basic Energetics	26,50	2
Building Information Modeling (BIM)	23	2
Introduction to Land Surveying	22	2
UE - MANAGEMENT AND SOCIETY	63	5
Climate Change & Energy Transition (ENG)	15	1
Labour law	15	1
Business Economics	10	1
Project Management 1	12,50	1
Urban Sociology	10,50	1
UE - SOFT SKILLS ET LANGUAGES	99.0	4
English 1	30	2
Leadership and Communication 1 (BL)	15,50	1
Soft Skills Portfolio 1	4	1
ESTP Paris Technical conferences	3	0
Foreign language (Optional)	30	0
Foreign language (Optional)	16,50	0
,	490	30

Semester 2 (equivalent semester 6 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	134	9
Numerical analysis	28,50	2
Engineering mathematics 2	32	2
Numerical modeling project	19	2
Strength of materials 1	39,50	2
Signal digital processing	15,00	1
UE - ENGINEERING SCIENCES AND METHODS	107	8
Performance of concrete materials	13	1
Soil mechanics	26	2
Fluid mechnics and applied hydraulics	30,50	2
Introduction to research	15,50	1
Introduction to legislation (Eurocodes)	8	1
Roads and main networks	13,50	1
UE - SPECIALISATION SCIENCES AND METHODS	76	4
Additive and subtractive manufacturing process	18,50	1
Electrical distribution - storage - lighting	24,50	2
Study of mechanical systems 1	32,50	1
UE - MANAGEMENT AND SOCIETY	65	5
Urban planning and construction law 1	15	1
Ethics management	15,50	1
Health & safety 1 (BL)	9	1
Design Thinking and Innovation	10	1
Fundamentals of Accounting	15,50	1
UE - SOFT SKILLS ET LANGUAGES	43,5	4
English	30	2
Leadership and Communication 2 (BL)	8	1
Soft Skills Portfolio 2	2,50	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	30	0
Foreign language 3 (Optional)	16,50	0
	425	30

Total Year 1	Hours	ECTS
	915	60



ESTP PARIS - MAJOR IN MECHANICAL, ELECTRICAL & ENERGY ENGINEERING 2021-2022

Semester 1 (equivalent semester 7 of higher education)	Hours per semester	ECTS
UE - ENGINEERING TECHNIQUES AND METHODS	131	10
Finite elements methods	25,50	2
Metal construction	32,50	2
Geotechnics	29	2
Research Project	11,50	2
Reinforced Concrete 1	32,50	2
UE - ENGINEERING TECHNIQUES AND METHODS	156,50	10
Climate Engineering	27	2
Basic Automatics	21	2
Additive and subtractive manufacturing process 2	24	1
Automation	24,50	1
Basic Electronics	30	2
Study of mechanical systems 2	30	2
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UE - MANAGEMENT AND SOCIETY	73,50	5
Project Management 1	15,50	1
Urban planning and construction law 1	15	1
Business Game	15	1
Analytical accounting	15,50	1
Pricing study - methodology	12,50	1
UE - SOFT SKILLS ET LANGUAGES	76,50	5
English 3	23	2
Leadership and Communication 3 (BL)	8	1
1st year Training Period Report	0	1
Soft Skills Portfolio 3	3,50	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	22,50	0
Foreign language 3 (Optional)	16,50	0
	437,5	30

Semester 2 (equivalent semester 8 of higher education)	Hours per semester	ECTS
UE08-11 - ENGINEERING TECHNIQUES AND METHODS	116	8
Geographic Information Systems SIG/CIM	28,50	2
Smart Grid/Smart Cities/Smart Building	18,50	1
Ecological and Environmental Engineering	20	1
Acoustic	17,50	1
Collaborative Building Information Modeling (BIM)	12,50	1
Engineering project	19	2
UE08-11 - ENGINEERING TECHNIQUES AND METHODS	155,50	13
Mechatronics	15,50	2
Power electronics	27,0	2
Industrial management	15,50	1
Instrumentation	18,0	2
Energy simulation	22,50	2
Renewable energy	18	1
Industrial energetics	18	1
Networks and telecommunications	21	2
UE - MANAGEMENT AND SOCIETY	58	5
Quality Management	13	1
Health & safety at work 2 (BL)	9	1
Intercultural management (ENG)	10,50	1
Public and Private Contracts	10,50	1
Hackathon ESTP Paris	15	1
UE - SOFT SKILLS ET LANGUAGES	91,0	4
English 4	30	2
Leadership and Communication 4 (BL)	8	1
Soft Skills Portfolio 4	3,50	1
ESTP Paris Technical conferences	3	0
Foreign language 2 (Optional)	30	0
Foreign language 3 (Optional)	16,50	0
 	420,5	30

Total Year 2	Hours	ECTS
	858	60



ESTP PARIS - MAJOR IN MECHANICAL, ELECTRICAL & ENERGY ENGINEERING 2021-2022

Semester 1 (equivalent semester 9 of higher education)	Hours per semester	ECTS
UE ENGINEERING TECHNIQUES AND METHODS	92,50	6
Control and supervision of installations	21	2
Maintenance and systems reliability	21,50	1
Energy production systems	21	1
Smart buildings energy	29	2
UE - MANAGEMENT AND SOCIETY	40,50	4
Management Control - Finance Analysis	18,50	2
Ethics in civil engineering (ENG)	7	1
Lean management	15	1
UE07-13 - SOFT SKILLS ET LANGUAGES	42	5
English	30	2
Leadership and Communication 5 (BL)	6,50	1
ESTP Paris Technical conferences	3	0
Soft Skills Portfolio 5	2,50	1
2nd year training period report	0	1
Foreign language 2 (Optional)	19,50	0
Foreign language 3 (Optional)	16,50	0
UE - OPTION	200	15
One minor to choose from :	200	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		
	333	30

Semester 2 (equivalent semester 10 of higher education)	Hours per semester	ECTS
UE - ENGINEERING PROJECT		30
6-month training period (+ report and oral defense)	n/a	30
		30

Total Year 3	Hours	ECTS
	n/a	60

ENGLISH TAUGHT PROGRAM IN CIVIL ENGINEERING



ESTP PARIS - MAJOR IN CIVIL ENGINEERING 2021-2022 YEAR 2*

S07 - Civil Engineering	Hours per semester	Credits ECTS
UE - ENGINEERING FUNDAMENTALS & METHODOLOGY	98,50	10
Structural Mechanics	43,00	
Reinforced Concrete	44,00	
Research exposure	11,50	
UE - SCIENCES & TECHNICAL SKILLS	163,00	9
Conceptual design of building structures	40,00	
Energy Efficiency	21,50	
Civil Engineering project 1	35,00	
BIM	15,50	
Geotechnical Engineering and Soil Mechanics 1	51,00	
UE - CORPORATE ENVIRONMENT	60,00	6
Business Game	15,00	
International Law	10,00	
Project Management	22,00	
Internship Report	0,00	
Quality Management	13,00	
UE - SOFT SKILLS & LANGUAGES	46,50	5
English	16,00	
Languages (optional)	7,00	
Intercultural Communication	21,50	
Professional skills	9,00	
	368,00	30

S08 - Civil Engineering	Hours per semester	Credits ECTS
UE - ENGINEERING FUNDAMENTALS & METHODOLOGY	151,50	11
Prestressed concrete	40,50	
Finite Element Methods (CAST3M)	27,50	
Steel Construction	40,00	
Geotechnical Engineering and Soil Mechanics 2	32,00	
Research exposure	11,50	
UE - SCIENCES & TECHNICAL SKILLS	123,50	8
Civil Engineering project 2	25,50	
Smart City	29,50	
Smart Grid	15,50	
Smart Building	14,00	
Structure Dynamics (structure calculus, seismic structure)	39,00	
UE - CORPORATE ENVIRONMENT	74,00	7
Financial, Accounting and Organizational Management	30,50	
Project Management Hackathon	10,50	
Business Development (ENG)	10,00	
Ethics	10,00	
Quality, Security and Environment	13,00	
UE - SOFT SKILLS & LANGUAGES	59,50	4
English	30,00	
Languages (optional)	7,00	
Public Speaking & Media Training	22,50	
	408,50	30



ESTP PARIS - MAJOR IN CIVIL ENGINEERING 2021-2022 YEAR 3*

S09 - Civil Engineering	Hours per semester	Credits ECTS
UE - SCIENCES & TECHNICAL SKILLS	120,50	9
Hydraulic Design and Experiments	36,00	
Pathology of Structures	26,00	
Bridge Design	39,00	
Roads and Methods	19,50	
UE - UE - CORPORATE ENVIRONMENT	39,50	3
Major Infrastructure projects in an International Context	24.50	
Lean Management	15,00	
UE - SOFT SKILLS & LANGUAGES	24,50	3
English	16,00	
Internship Report	0,00	
Languages (optional)	7,00	
Conference	1,50	
UE - OPTION	200.00	15
One minor to choose from :	200.00	15
•Landscape and Real Estate Planning	=55,55	
•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		
	384.50	30

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