BACHELOR, 3rd Year - 1st Semester (S5) [JGC5ST0]

UE	Course	ECTS	Language
JGC5U1	MECHANICS - MATERIALS	7	
	Perfect Fluid Mechanics		
	Strength of Materials 1		
	Physics of Materials		
JGC5U2	MATHS - COMPUTING - PHYSICS	8	
	Mathematics for Engineers		
	Statistics & probabilities		
	Waves and Vibrations		
	Spreadsheets 1		
JGC5U3	TECHNOLOGY 1	10	
	Laboratory work : Concrete 1		
	Reading of construction drawing 1; Autocad		
	Introduction to Building & Public Works 1		
	Topography		
	Health and Safety in the Workplace		
JGC5U4	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW I	5	
	General English		
	Organization and operation of the companies		
	Intercultural management		
	Digital responsability		
	Opening module S5		
	English (TOEIC)		

BACHELOR, 3rd Year - 2nd Semester (S6) [JGC6ST0]

UE	Course	ECTS	Language
JGC6U1	MATERIALS	6	
	Construction Materials 1		
	Introduction to Building & Public Works 2		
	Laboratory work : Concrete 2		
JGC6U2	MATHS - TOPOGRAPHY	6	
	Numerical analysis in Civil Engineering		
	BIM 1		
	Town planning law		
	Reading of construction drawing 2		
JGC6U3	MECHANICS	6	
	Strength of Materials 2		
	Elasticity		
	Energy Methods for Strength of Materials		
	Actions on structures		
JGC6U4	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW II	6	
	English (general & TOEIC)		
	Opening Module		
	Corporate finances		
	Personal and professional project – 1		
	Sustainable development & social responsibility		
JGC6U5	WORK PLACEMENT I (Internship)	6	

MASTER, 1st Year - 1st Semester (S7) [JGC7ST0]

UE	Course	ECTS	Language
JGC7U1	DIMENSIONING 1	12	
	Strength of Materials 3		
	Structure behaviour 1		
	Metallic Construction 1		
	Reinforced Concrete 1		
	Hydraulics		
JGC7U2	SOILS	8	
	Soil Mechanics – geotechnics=		
	Numerical Analysis 2		
	Geotechnical engineering (laboratory work)		
JGC7U3	TECHNOLOGY 2	4	
	Introduction to Building & Public Works 3		
	Construction Material 2		
	Organisation of civil engineering worksites		
	Road Infrastructure		
JGC7U4	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW III	6	
	English (general & TOEIC)		
	Project Management 1		
	Commercial and marketing		
	Quality Management		

MASTER, 1st Year - 2nd Semester (S8) [JGC8ST0]

UE	Course	ECTS	Language
JGC8U1	DIMENSIONING 2	7	
	Reinforced Concrete 2		
	Behaviour of structures 2		
	Infrastructures and foundations		
	Introduction to heat exchanges		
JGC8U2	TECHNOLOGY 3	7	
	Applied Numerical Analysis		
	Method of execution: Formwork and Flooring		
	BIM 2 ; Robot		
	Metallic Construction 2		
JGC8U3	METHODS	7	
	Introduction to Building & Public Works 4		
	Financial evaluation of civil engineering worksites		
	Final project		
	Wood construction		
JGC8U4	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW IV	4	
	English (general & TOEIC)		
	Responsible Management		
	Innovation entrepreneurship 1		
	Career plan -2		
JGC8U5	WORK PLACEMENT II (Internship)	5	

MASTER, 2nd Year - 1st Semester (S9) [JGC9ST0]

UE	Course	ECTS	Language
JME9U1	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW V	8	
	BIM 3 (specialized)		
	Project Management 2		
	Sustainable Development in civil engineering		
	Final year project		
	English		
JGC9U2	TECHNOLOGY 4	6	
	Non-destructive testing		•
	Management of civil engineering contracts		
	Study, design and optimization of buildings		
	Financial Management of Worksites		
	Construction & Public Markets Law		
JGC9O1	OPTION/TRACK 1: BUILDINGS AND SUSTAINABLE DEVELOPMENT	-	
JGC9U3	BUILDING	6	
	Bioclimatic Construction		
	Electrical Installation		
	Acoustics of buildings		
JGC9O1	OPTION/TRACK 1: BUILDINGS AND SUSTAINABLE DEVELOPMENT		
JGC9U4	ENERGIES	10	
	Advanced Heat Exchanges and Passive Systems		
	Thermal and environmental behaviour of the building		
	Energy Systems in Buildings		
	STARCCM+ Modelling		
	Numerical calculations of heat exchanges		
JGC902	OPTION/TRACK 2: STRUCTURES AND WORKS	_	
JGC9U5	DIMENSIONING 3	8	
	Reinforced Concrete 3		-
	Prestressed Contrete		-
	Mixed Bridges		-
	Calculation of Structures		
JGC902	OPTION/TRACK 2: STRUCTURES AND WORKS		
JGC9U6	DESIGN OFFICES	8	
	Structure Modelling using CASTEM		-
	Pathology and rehabilitation		-
	Earthquake engineering		
	Research and development Project Advanced soil mechanics		
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JGC903	OPTION/TRACK 3: PUBLIC WORK	0	
JGC9U7	DIMENSIONING 3	8	
	Reinforced Concrete 3		
	Tunnels and Dams		
	Structures, industrial civil engineering		
	Maritime Works		

JGC9O3 JGC9U7	OPTION/TRACK 3: PUBLIC WORK DIMENSIONING 3	8	
JGC9U7	Research and development Project	•	11
	Formwork and shoring Methods of Earthwork/ Roads and Utilities Networks / Roads Conferences on Public Works Methods in civil engineering		

MASTER, 2nd Year - 2nd Semester (S10) [JGC10ST0]

UE	Main course	ECTS	Language
JGC10U1	WORK PLACEMENT III (Internship)	30	