LISTE DES COURS

UNIVERSITÉ D'ACCUEIL	**Universidad Politécnica de Cartagena**
SEMESTRE DANS LE CURSUS	**Tous**
PROGRAMME DU CLUSTER	**Tous**
SAISON	**Tous**
LANGUE D'ENSEIGNEMENT	**Tous**
DOCUMENT CRÉÉ LE	**21/11/2026**

452 cours · 2 470.0 ECTS au total

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
211101003	Acoustic and image signal processing	Español	Fall	6.0
223102019	ADDITIVE MANUFACTURING	Español	Fall	4.5
203401007	Advanced and Emerging Food Technologies	English	Spring	5.0
502109001	ADVANCED COMPUTER AIDED DESIGN	—	Fall	3.0
226109007	ADVANCED INSTRUMENTAL ANALYSIS TECHNIQUES	Español	Fall	3.0
211101001	Advanced internet concepts	Español	Fall	6.0
525104009	Advanced Internet Technologies in Industry, Communication Networks and Infraestructures	Español	Spring	4.5
508109019	ADVANCED MANUFACTURING SYSTEMS	Español	Fall	4.5
223109001	ADVANCED MATHEMATICS	Español	Fall	6.0
505104013	Advanced Numerical Methods	Español	Spring	6.0
226101007	ADVANCED SEPARATION TECHNOLOGIES	Español	Spring	3.0
213101010	ADVANCED WATER RESOURCES PLANNING AND MANAGEMENT	Español	Spring	6.0
226101002	ADVANCED WATER TREATMENT AND PURIFICATION TECHNIQUES	Español	Fall	6.0
519104003	AESTHETICS AND COMPOSITION	—	Fall	6.0
226101001	AIR QUALITY AND CONTROL ENGINEERING	Español	Fall	6.0
226109001	AMBIENTAL RISK CHARACTERIZATION: HEALTH MANAGEMENT	Español	Spring	3.0
525102001	Analysis and Design of Algorithms	Español	Fall	6.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
223102017	ANALYSIS AND SYNTHESIS OF MECHANISMS	Español	Fall	4.5
504103007	Antennas and Propagation	Español	Spring	6.0
522102001	APPLICATION OF STATISTICS	Español	Fall	6.0
508109013	APPLICATIONS IN STRUCTURAL ENGINEERING	Español	Spring	3.0
522101008	APPLIED CHEMISTRY	Español	Spring	3.0
508101004	APPLIED COMPUTING	Español	Fall	6.0
512101004	Applied Computing (Industrial Engineering course)	Español	Fall	6.0
522101003	APPLIED GEOLOGY	Español	Fall	6.0
502101007	APPLIED MATHEMATICS	—	Fall, Spring	9.0
502101004	APPLIED PHYSICS	—	Fall, Spring	9.0
508101007	Applied Statistics	Español	Spring	6.0
512101007	Applied statistics (Industrial Engineering course)	Español	Spring	6.0
508102004	APPLIED THERMODYNAMICS	Español	Fall	4.5
512102004	Applied Thermodynamics Industrial Engineering	Español	Fall	4.5
502104002	APPRAISALS AND VALUATIONS	—	Fall	4.5
519101001	ARCHITECTURAL ANALYSIS AND DRAWING 1	—	Fall	6.0
519101007	ARCHITECTURAL ANALYSIS AND DRAWING 2	—	Spring	6.0
519109007	ARCHITECTURAL HERITAGE INTERVENTION TECHNIQUES	—	Fall	3.0
200101012	ARCHITECTURAL PHOTOGRAPHY	—	Spring	3.0
519105005	ARCHITECTURE AND BUSINESS	—	Fall	3.0
508103010	Automatic control	Español	Spring	4.5
512103009	Automatic Regulation	Español	Spring	6.0
508104004	BACHELOR'S FINAL PROJECT	Español	Fall, Spring	12.0
512104007	Bachelor's Final Project Industrial Engineering	Español	Spring	6.0
223102009	BASICS OF ELECTRIC PROPULSION VEHICLES (EPV)	Español	Fall	3.0
226109003	BIOCATALYSIS AND MICROENCAPSULATION	Español	Spring	3.0
211102004	Bioengineering Electronic Systems	Español	Fall	3.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
508109018	BIOMECHANICS AND ERGONOMICS	Español	Fall	4.5
502104010	BUDGETING AND ECONOMIC CONTROL I	—	Fall	4.5
502104011	BUDGETING AND ECONOMIC CONTROL II	—	Spring	3.0
—	BUILDING FACILITIES 2	—	Fall	6.0
522101010	BUILDING MATERIALS	Español	Spring	4.5
502104006	BUILDING PROCESSES MANAGEMENT	—	Fall	6.0
502104003	BUILDING QUALITY	—	Fall	6.0
519102008	BUILDING STRUCTURES 1	—	Spring	6.0
519103008	BUILDING STRUCTURES 2	—	Spring	6.0
502102012	BUILDING STRUCTURES I	—	Fall	6.0
502102013	BUILDING STRUCTURES II	—	Spring	3.0
522104005	BUILDINGS	Español	Fall	7.5
525104003	Business and Entrepreneurship	Español	Fall	6.0
502101002	BUSINESS ECONOMICS	—	Fall, Spring	7.5
505101009	Business Management	English, Español	Spring	6.0
508102011	BUSINESS ORGANIZATION AND MANAGEMENT	Español	Spring	6.0
505101003	Calculus I	Español	Fall	6.0
525101001	Calculus I (Data Science and Engineering)	Español	Fall	6.0
504101006	Calculus II	Español	Spring	6.0
525101006	Calculus II (Data Science and Engineering)	Español	Spring	6.0
512103011	Chemical Process Technology	Español	Spring	6.0
223101006	CHEMICAL PROCESSES ENGINEERING	Español	Fall	4.5
223109005	CHEMICAL PROCESSES TECHNOLOGY	Español	Fall	4.0
512102002	Circuit Analysis	English, Español	Spring	6.0
504103002	Circuit analysis and design	Español	Fall	6.0
505104005	Communication hardware architecture	Español	Fall	6.0
504103004	Communication Instrumentation	Español	Fall	7.5
504102010	Communication theory	Español	Spring	6.0
223102018	COMPUTATIONAL DESIGN OF MACHINE ELEMENTS	Español	Fall	3.0
508109017	COMPUTATIONAL DESIGN OF MACHINES	Español	Spring	4.5

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
512109025	Computer Aided Design Industrial Engineering	Español	Spring	4.5
505101005	Computer Fundamentals	Español	Fall	6.0
525101005	Computer Fundamentals (Data Science and Engineering)	Español	Fall	6.0
508109003	Computer-Aided Design (Sem 8)	Español	Spring	4.5
522101004	COMPUTING	Español	Fall	6.0
502102010	CONCRETE CONSTRUCTION	—	Fall	6.0
508109011	CONCRETE STRUCTURES	Español	Fall	4.5
502103010	CONCRETE STRUCTURES TECHNOLOGY	—	Fall	6.0
519102005	CONSTRUCTION 1. BASIC CONCEPTS	—	Fall	3.0
519102007	CONSTRUCTION 2. RESISTANT CONSTRUCTION SYSTEMS	—	Spring	6.0
519103002	CONSTRUCTION 3. Building Envelopes	—	Fall	6.0
519103007	CONSTRUCTION 4. Finishing.	—	Spring	6.0
519104002	CONSTRUCTION 5. REINFORCED AND PRESTRESSED CONCRETE I	—	Fall	6.0
519105002	CONSTRUCTION 6. REINFORCED AND PRESTRESSED CONCRETE II	—	Fall	3.0
519105007	CONSTRUCTION 7. STEEL STRUCTURES	—	Spring	6.0
522104010	CONSTRUCTION ENGINEERING	Español	Spring	3.0
502101001	CONSTRUCTION FUNDAMENTALS	—	Spring	6.0
502102008	CONSTRUCTION HISTORY	—	Fall	3.0
522104006	CONSTRUCTION MANAGEMENT	Español	Fall	4.5
502102014	CONSTRUCTION MATERIALS 1	—	Fall	4.5
502102015	CONSTRUCTION MATERIALS 2	—	Spring	4.5
519102010	CONSTRUCTION MATERIALS I	—	Spring	3.0
519103003	CONSTRUCTION MATERIALS II	—	Fall	6.0
522102009	CONSTRUCTION PROCEDURES	Español	Spring	6.0
223102026	CONSTRUCTIONS AND INDUSTRIAL PLANTS	Español	Spring	6.0
502103012	CONSTRUCTIVE SYSTEMS 1	—	Fall	4.5
502103013	CONSTRUCTIVE SYSTEMS 2	—	Spring	4.5

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
525104010	Content Distribution Networks	Español	Spring	4.5
508101002	Core Subjects / Physics 1	Español	Fall	6.0
211101012	Corporate Telematic Systems and Services Administration	Español	Spring	3.0
508109009	CORROSION AND PROTECTION OF MATERIALS	Español	Spring	3.0
525104002	Cybersecurity	Español	Fall	6.0
525103006	Data Networks	Español	Spring	6.0
525101009	Data Structures	Español	Spring	6.0
505103006	Data transmission	Español	Spring	6.0
525103010	Data Visualization	Español	Spring	6.0
525102002	Databases I	Español	Fall	6.0
525102007	Databases II	Español	Spring	6.0
525103007	Deep Learning	Español	Spring	6.0
508103011	DESIGN OF MACHINE ELEMENTS I	Español	Fall	4.5
508103012	DESIGN OF MACHINE ELEMENTS II	Español	Spring	4.5
223101012	DESIGN OF MECHANICAL TRANSMISSIONS	Español	Spring	3.0
505104029	Design of SOCs over FPGA	Español	Spring	6.0
504103001	Digital communications	Español	Fall	6.0
505104004	Digital contents laboratory	Español	Fall	6.0
504104001	Digital Signal Processing	Español	Fall	6.0
504102006	Digital systems based on microprocessors	Español	Spring	6.0
525101002	Discrete Math	Español	Fall	6.0
505103002	Distributed systems and services	Español	Fall	6.0
200101002	DOCUMENTATION OF ARCHITECTURAL HERITAGE	—	Fall	6.0
223102011	DRIVES FOR ELECTRIC PROPULSION VEHICLES	Español	Fall	3.0
502109020	DURABILITY AND SUSTAINABLE BUILDING	—	Spring	3.0
522102006	ECONOMICS AND BUSINESS	Español	Fall	6.0
223109003	ELASTICITY AND RESISTENCE OF MATERIALS	Español	Fall	4.0
508102010	Elasticity And Strength Of Materials	Español	Spring	6.0
525104XXX	Electives	—	Fall, Spring	30.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
223109009	ELECTRIC MACHINES	Español	Fall	4.0
512103007	Electric Machines - Industrial	Español	Spring	6.0
223101002	ELECTRICAL POWER SYSTEMS	Español	Fall	6.0
522102011	ELECTRICAL TECHNOLOGY	Español	Spring	4.5
508103007	ELECTRICAL TECHNOLOGY 1	Español	Spring	6.0
504102005	Electromagnetic waves	Español	Fall	6.0
512109021	Electromagnetic Waves Industrial Engineering	Español	Spring	4.5
211101014	Electronic and Photonic Systems for Astronomy	Español	Spring	3.0
504102008	Electronic circuits and functions	Español	Spring	6.0
504102002	Electronic components and devices	English, Español	Fall	6.0
211101006	Electronic system design	Español	Spring	6.0
223101004	ELECTRONIC SYSTEMS	Español	Fall	4.5
504103009	Electronics for telecommunications	Español	Spring	6.0
519103004	ELEMENTS OF ARCHITECTURE	Español	Fall	6.0
522104014	END-OF-DEGREE DISSERTATION	English, Español	Fall, Spring	12.0
504104006	End-of-Degree Project	Español	Fall, Spring	12.0
502109019	ENERGY EFFICIENCY CERTIFICATION	—	Spring	3.0
512109018	Energy Efficiency in Buildings	Español	Spring	4.5
223102004	ENERGY SAVINGS AND EFFICIENCY PROJECTS	Español	Fall	4.5
223101011	ENERGY TECHNOLOGIES AND MANAGEMENT	Español	Spring	6.0
508109008	ENERGY TECHNOLOGY	Español	Spring	3.0
508103006	ENGINEERING MATERIALS	Español	Fall	4.5
508103004	ENGINEERING OF FLUIDS AND HYDRAULIC MACHINES	Español	Fall, Spring	9.0
508104001	ENGINEERING PROJECTS	Español	Fall	6.0
512103003	Engineering Projects Industrial	Español	Fall	3.0
504103005	English for telecommunication	English	Fall	4.5
522103004	ENVIRONMENTAL ENGINEERING	Español	Fall	3.0
522104007	ENVIRONMENTAL IMPACT	Español	Spring	4.5
226101004	ENVIRONMENTAL MANAGEMENT TOOLS	Español	Fall	3.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
508103005	ENVIRONMENTAL TECHNOLOGY	Español	Fall	4.5
512103010	Environmental Technology - Industrial	Español	Spring	6.0
519109011	EXTENSION OF COMPUTER DRAWING	—	Fall	3.0
522101013	EXTENSION OF PHYSICS	Español	Spring	6.0
519105004	FACILITIES 3	—	Fall	6.0
519103005	FACILITIES I	—	Fall	3.0
519104004	FACILITIES II	—	Fall	6.0
512109088	Fem Applications in Structural Engineering	Español	Spring	3.0
525105001	Final Degree Project (Bachelor Thesis)	English, Español	Fall, Spring	12.0
223109008	FLUID ENGINEERING	Español	Fall	4.0
512103006	Fluid Engineering - Industrial	Español	Fall	6.0
508109023	FLUID INSTALLATIONS	Español	Fall	3.0
508102009	Fluid Mechanics	Español	Spring	4.5
512102008	Fluid Mechanics Industrial Engineering	Español	Spring	6.0
223102003	FLUID PROJECTS AND INSTALLATIONS	Español	Fall	3.0
229201011	Food Processing and Packaging Design	English	Spring	5.0
522104002	Foreign language	English	Fall	3.0
502102009	FOUNDATIONS AND ROADWAYS	—	Spring	4.5
502101005	FUNDAMENTALS OF BUILDING MATERIALS	—	Fall	6.0
525102003	Fundamentals of Data Networks	Español	Fall	6.0
508104002	Fundamentals Of Industrial Electronics	Español	Fall	4.5
508101009	Fundamentals of manufacturing	Español	Spring	6.0
525101007	Fundamentals of Probability and Exploratory Data Analysis	Español	Spring	6.0
525102004	Fundamentals of Statistical Inference	Español	Fall	6.0
508101003	General Chemistry	Español	Fall	6.0
512101003	General Chemistry Industrial Engineering	Español	Fall	6.0
522103006	GEOTECHNICAL WORKS	Español	Fall	6.0
519105003	GEOTECHNICS	—	Fall	6.0
508101005	Graphic Expression	Español	—	6.0
502102003	GRAPHIC EXPRESSION 1	—	Fall	6.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
502102004	GRAPHIC EXPRESSION 2	—	Spring	4.5
502101008	GRAPHIC GEOMETRY	—	Fall, Spring	9.0
519101003	GRAPHIC GEOMETRY 1	—	Fall	6.0
519102003	GRAPHIC GEOMETRY 2	—	Fall	6.0
519101002	GRAPHIC IDEATION 1	—	Fall	6.0
519102002	GRAPHIC IDEATION 2	—	Fall	6.0
522101012	GRAPHICAL EXPRESSION	Español	Fall, Spring	10.5
522102008	GROUNDWATER HYDROLOGY	Español	Spring	4.5
519109035	HEALTH AND SAFETY PREVENTION	—	Spring	3.0
508102008	Heat Transfer	Español	Spring	4.5
512103001	Heat Transmission	Español	Fall	4.5
519101004	HISTORY OF ARCHITECTURE 1	—	Fall	6.0
519101008	HISTORY OF ARCHITECTURE 2	—	Spring	6.0
200101001	HISTORY OF ARCHITECTURE AND CONSTRUCTION	—	Fall	6.0
505104014	Home automation and IoT	Español	Spring	6.0
213101018	HYDRAULIC AND HYDROLOGIC SYSTEM ANALYSIS	English, Español	Fall	3.0
223101003	HYDRAULIC MACHINES AND POWER	Español	Fall	3.0
522104003	HYDRAULIC RESOURCES	Español	Fall	7.5
522103009	HYDRAULIC STRUCTURES	Español	Spring	7.5
522102007	HYDRAULICS I	Español	Spring	4.5
522103003	HYDRAULICS II	Español	Fall	4.5
522104011	HYDROECOLOGY	Español	Spring	4.5
213101017	HYDROELECTRIC, WIND AND TIDAL ENERGY	English, Español	Spring	4.5
525104007	Image Analysis and Artificial Vision	Español	Fall	4.5
525103001	Image Processing	Español	Fall	6.0
525104011	Image Processing in Medicine	Español	Spring	4.5
223109012	INDUSTRIAL AUTOMATION	Español	Fall	4.0
512104002	Industrial Automation Industrial Engineering	Español	Fall	6.0
508103008	INDUSTRIAL BUILDINGS I	Español	Spring	4.5

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
508109012	INDUSTRIAL BUILDINGS II	Español	Spring	4.5
51210922	Industrial Communications	Español	Spring	4.5
512101008	Industrial Design	Español	Spring	6.0
508102013	INDUSTRIAL DESIGN I	Español	Fall	4.5
508102014	INDUSTRIAL DESIGN II	Español	Spring	4.5
512103004	Industrial Electronics	Español	Fall	6.0
512109019	Industrial Electronics Industrial Engineering	Español	Spring	4.5
—	INDUSTRIAL INTERNSHIP	Español	Fall, Spring	12.0
223102038	INDUSTRIAL INTERNSHIP (Industrial)	Español	Fall, Spring	9.0
508109006	Industrial Maintenance Engineering	Español	Spring	3.0
512104006	Industrial Marketing	—	Spring	6.0
223102027	Industrial Processes Management	Español	Spring	6.0
223101001	INDUSTRIAL PROJECT MANAGEMENT	Español	Fall	3.0
226109008	INFORMATION MANAGEMENT AND TRAINING OF ENTREPRENEURS	Español	Spring	3.0
505104006	Information Technology Materials	Español	Spring	6.0
525103005	Infrastructure for High-Performance Computing	Español	Fall	6.0
508109022	INSTALLATIONS AND THERMAL EQUIPMENT	Español	Spring	3.0
223101008	INTEGRATED MANAGEMENT IN THE INDUSTRIAL COMPANY	Español	Spring	6.0
223101007	INTEGRATED MANUFACTURING SYSTEMS	Español	Fall	4.5
223102016	INTEGRATION OF POWER ELECTRONICS IN ELECTRICAL ENERGY SYSTEMS (EES)	Español	Fall	3.0
505104003	Internet Applications	Español	Fall	6.0
502104007	INTERNSHIPS	—	Fall, Spring	9.0
502109017	INTRODUCTION TO BUILDING INFORMATION MODELLING	—	Spring	3.0
525101010	Introduction to Data Science in Artificial Intelligence	Español	Spring	6.0
211101010	Introduction to Machine Learning	Español	Spring	3.0
519102009	INTRODUCTION TO URBAN PLANNING	—	Spring	6.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
502102005	LAW FOR BUILDING ENGINEERING	—	Fall	6.0
502101006	LEARNING METHODOLOGY	—	Fall	3.0
519109037	LIGHTING TECHNOLOGY AND ENERGY EFFICIENCY	—	Fall	6.0
525101003	Linear Algebra	Español	Fall	6.0
505101002	Linear Algebra and Numerical Methods	Español	Fall	6.0
504102001	Linear Systems	Español	Fall	6.0
223109010	LOW VOLTAGE ELECTRICAL INSTALLATIONS AND TRANSFORMATION CENTERS	Español	Fall	4.0
525104006	Machine Learning Expensions	Español	Fall	4.5
525102009	Machine Learning I	Español	Spring	6.0
525103002	Machine Learning II	Español	Fall	6.0
508102003	MACHINE MECHANICS	Español	Fall	6.0
223109004	MACHINE TECHNOLOGY	Español	Fall	4.0
512104003	Machine Technology Industrial Engineering	Español	Fall	6.0
512102009	Machinery Mechanics	Español	Spring	6.0
247101011	management of corporate telematic systems and services	Español	Spring	3.0
502109018	MANAGEMENT OF INFORMATION FLOWS IN COLLABORATIVE ENVIRONMENTS	—	Spring	3.0
519105008	MANAGEMENT OF PROFESSIONAL PROCESSES	—	Spring	6.0
508103009	Manufacturing Engineering	Español	Spring	6.0
512102010	Manufacturing Fundamentals	Español	Spring	6.0
223109006	MANUFACTURING TECHNOLOGY	Español	Fall	4.0
512104005	Manufacturing Technology Industrial	Español	Spring	6.0
522103010	MARITIME AND COASTAL ENGINEERING	Español	Spring	6.0
211102006	Master Final Thesis	Español	Fall, Spring	21.0
226101009	MASTER THESIS	Español	Fall, Spring	12.0
EUF 004	Master Thesis-EUROFOOD	English	Fall	30.0
223103001	MASTER'S DEGREE FINAL PROJECT (Industrial)	Español	Fall, Spring	12.0
213101029	MASTERS THESIS	English, Español	Fall, Spring	7.5

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
522102003	MATERIAL RESISTANCE	Español	Fall	4.5
200101003	MATERIALS AND TECHNIQUES FOR ARCHITECTURAL HERITAGE CONSTRUCTION	—	Spring	6.0
508101008	Materials science and engineering	Español	Spring	6.0
223109007	MATERIALS TECHNOLOGY	Español	Fall	4.0
512104004	Materials Technology Industrial Engineering	Español	Fall	6.0
525104016	Mathematical and Numerical Methods in Data Science	Español	Spring	4.5
512109003	Mathematical Methods for Model Analysis	Español	Spring	4.5
522101014	MATHEMATICS	Español	Fall, Spring	10.5
519101009	MATHEMATICS 1	—	Spring	6.0
519102004	MATHEMATICS 2	—	Fall	6.0
522102002	MATHEMATICS EXTENSION	Español	Fall	6.0
508101010	MATHEMATICS I	Español	Fall	6.0
508101011	MATHEMATICS II	Español	Spring	6.0
512101011	Mathematics II Industrial Engineering course	Español	Spring	6.0
508102012	MATHEMATICS III	Español	Fall	6.0
51210211	Mathematics III Industrial Engineering course	Español	Fall	6.0
522103002	METAL STRUCTURES	Español	Fall	6.0
508109010	METALLIC STRUCTURES	Español	Fall	6.0
519109010	METHODS OF ADVANCED GRAPHIC EXPRESSION	—	Fall	3.0
226101006	MICROALGAE BIORREFINERIES	Español	Fall	4.5
211101005	Microelectronic and photonic technology and components	Español	Fall	6.0
504104004	Microwave Applications	Español	Fall	6.0
504103003	Microwave circuits	Español	Fall	6.0
203401009	Minimal Processing technologies of Food products to meet European consumer demands	English	Spring	5.0
504104002	Mobile Communications	Español	Fall	6.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
213101019	MODELLING AND SIMULATION OF HYDRAULIC STRUCTURES	English, Español	Fall	4.5
505104010	Modern Physics	Español	Spring	6.0
223102001	MULTIDISCIPLINARY PROJECT DEVELOPMENT	Español	Fall	4.5
211101011	Multimedia digital broadcasting	Español	Spring	3.0
525102010	Multivariate Statistical Analysis	Español	Spring	6.0
211101002	Network convergence	Español	Fall	6.0
211101007	Network operation and engineering	Español	Spring	6.0
505104001	Network security	Español	Fall	6.0
525104005	Next-Generation Internet and Data Processing	Español	Fall	4.5
508109016	NOISE AND VIBRATION CONTROL	Español	Fall	3.0
223101013	NOISE AND VIBRATION IN MACHINES	Español	Spring	3.0
EUF 002	Novel food design and Sensory	English	Spring	5.0
512103005	Numerical Operation	Español	Fall	6.0
508109002	Operations Management	Español	Spring	4.5
504103006	Optical Communications	Español	Spring	6.0
512109001	Optimization and statistical simulation	—	Spring	4.0
525101008	Optimization I	Español	Spring	6.0
525102005	Optimization II	Español	Fall	6.0
506102011	Organisation and Management of Business	—	Spring	6.0
512101009	Organisation and Management of Companies	Español	Spring	6.0
525103008	Parallel Data Processing	Español	Spring	6.0
502109011	PATHOLOGY AND TECHNIQUES FOR THE RESTORATION AND CONSERVATION OF ARCHITECTURAL HERITAGE	—	Fall	3.0
504104005	Photonic Technologies and Applications	Español	Fall	6.0
522101015	PHYSICAL FUNDAMENTALS OF CIVIL ENGINEERING	Español	Fall	6.0
519101005	PHYSICS	—	Fall	6.0
519101010	PHYSICS EXTENSION	—	Spring	6.0
505101001	Physics for Telecommunications	Español	Fall	6.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
512101002	Physics I	Español	Fall	6.0
508101006	PHYSICS II	Español	Spring	6.0
512101006	Physics II Industrial Engineering course	Español	Spring	6.0
505103010	Planning and network management	Español	Spring	7.5
223109011	POWER ELECTRONICS	Español	Fall	4.0
512103008	Power Electronics - Industrial	Español	Spring	6.0
211102013	Practical placement	Español	Fall	9.0
522104008	PREFABRICATION	Español	Spring	4.5
502103014	PREVENTION AND SAFETY AT WORK I	—	Fall	4.5
502103015	PREVENTION AND SAFETY AT WORK II	—	Spring	4.5
508109005	PREVENTION OF OCCUPATIONAL HAZARDS	Español	Fall	3.0
505101004	Prgramming Fundamentals	Español	Fall	6.0
223101005	PROCESS CONTROL ENGINEERING	Español	Fall	4.5
502103003	PRODUCTION EQUIPMENT	—	Fall	6.0
505104007	Production Management	Español	Spring	6.0
508102006	Production Systems Engineering	Español	Fall	4.5
525102006	Programming for Data Science	Español	Spring	6.0
504103010	Programming for telecommunication systems	Español	Spring	6.0
505103004	Programming for telematic engineering	Español	Fall	6.0
525101004	Programming Fundamentals	Español	Fall	6.0
512109002	Programming Languages	Español	Spring	4.5
502103002	PROJECT MANAGEMENT	—	Fall	3.0
525104001	Project Management in Data Engineering	Español	Fall	6.0
EUF 003	Project management in the Food Industry	English	Spring	5.0
522104001	PROJECTS	Español	Fall	3.0
519101006	PROJECTS 1	—	Spring	6.0
519102001	PROJECTS 2	—	Fall	9.0
519102006	PROJECTS 3	—	Spring	9.0
519103001	PROJECTS 4	—	Fall	9.0
519103006	PROJECTS 5	—	Spring	9.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
519104001	PROJECTS 6	—	Fall	9.0
519104005	PROJECTS 7	—	Spring	9.0
519105001	PROJECTS 8	—	Fall	9.0
223101009	PROJECTS AND INDUSTRIAL URBAN PLANNING	Español	Spring	6.0
504104003	Projects for Telecommunication Systems	Español	Fall	6.0
505104002	Projects in telematic engineering	Español	Fall	6.0
234101012	Projects Management	—	Fall, Spring	4.0
505103007	Protocol engineering	Español	Spring	4.5
508109021	PROTOTYPE MANUFACTURING	Español	Spring	3.0
226101008	QUALITY AND SAFETY MANAGEMENT	Español	Spring	3.0
502103008	QUALITY CONTROL IN BUILDING MATERIALS	—	Spring	3.0
508109014	QUALITY CONTROL, PATHOLOGY AND REINFORCEMENT OF STRUCTURES	Español	Fall	3.0
508109007	QUALITY ENGINEERING	Español	Fall	3.0
223102029	Quality in the Industry	Español	Spring	3.0
211102001	Radiocommunications Engineering Projects	Español	Fall	3.0
211101008	Radionavigation, positioning and radar systems	Español	Spring	6.0
522104009	RAILWAYS	Español	Spring	6.0
525103003	Recover of Information	Español	Fall	6.0
519109009	RENDERING AND ANIMATION	—	Spring	3.0
519109008	REPRESENTATION OF ARCHITECTURAL HERITAGE	—	Spring	3.0
502103006	RESTORATION, REHABILITATION, REPAIR AND MAINTENANCE OF BUILDINGS	—	Spring	6.0
EUF 001	Revalorisation of by-products for new product development	English	Fall	5.0
203401008	Risk Assessment, Quality and Traceability of foods	English	Spring	5.0
213101020	RIVER ENGINEERING	English, Español	Spring	4.5
522104013	RIVER HYDRAULICS	Español	Spring	4.5
522103008	ROADS AND AIRPORTS	Español	Spring	6.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
508109004	SAFETY IN INDUSTRIAL FACILITIES	Español	Fall	3.0
213101008	SANITARY ENGINEERING	Español	Spring	6.0
522104004	SANITARY ENGINEERING	Español	Fall	4.5
512102003	Science and Engineering of Materials	Español	Fall	6.0
211101016	Scientific computing platforms	Español	Spring	3.0
525102008	Signals and Systems	Español	Spring	6.0
505103009	Simulation and modeling	Español	Spring	6.0
226109002	SIMULATION AND OPTIMIZATION OF PROCESSES	Español	Spring	3.0
504104013	Software Engineering Lab	Español	Spring	6.0
505104012	Software Engineering Laboratory	Español	Spring	6.0
522102004	SOIL AND ROCK MECHANICS	Español	Fall	7.5
—	SPANISH FOR INTERNATIONAL STUDENTS	—	Fall, Spring	2.0
1901018	Spanish Language and Culture_	Español	Spring	5.0
519105006	SPATIAL PLANNING	—	Spring	6.0
505101007	Statistics	Español	Spring	6.0
223109002	STATISTICS COMPLEMENTS	Español	Fall	4.0
502101003	STATISTICS FOR BUILDING ENGINEERING	—	Spring	6.0
502102011	STEEL CONSTRUCTION	—	Spring	3.0
502103011	STEEL STRUCTURES TECHNOLOGY	—	Spring	3.0
525103004	Stochastic Processes and Time Series	Español	Fall	6.0
508102005	Strength of Materials	Español	Fall	4.5
522103001	STRUCTURAL CONCRETE I	Español	Fall	4.5
522103007	STRUCTURAL CONCRETE II	Español	Spring	4.5
200101014	STRUCTURAL REINFORCEMENT OF HISTORIC BUILDINGS	—	Fall	3.0
522102010	STRUCTURE CALCULATION	Español	Spring	4.5
512102006	Supplementary Mathematics	Español	Spring	6.0
512102007	Supplementary Statistics	Español	Fall	6.0
522102005	SURFACE HYDROLOGY AND HYDROMETEOROLOGY	Español	Spring	6.0

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
226109009	SUSTAINABILITY IN POWER PLANT STORAGE	Español	Spring	3.0
211102003	Sustainable Development, Renewable Energy and ICTs	Español	Fall	3.0
226101005	SUSTAINABLE PROCESS TECHNOLOGIES	Español	Fall	6.0
505102004	Switching	Español	Fall	6.0
505101008	Systems and Circuits	Español	Spring	6.0
508102007	TECHNICAL ENGLISH	Español	Spring	?
502104001	TECHNICAL ENGLISH FOR BUILDING ENGINEERING	—	Spring	3.0
512103002	Technical English Industrial Engineering	English	Fall	4.5
502104012	TECHNICAL PROJECTS 1	—	Fall	6.0
502104013	TECHNICAL PROJECTS 2	—	Spring	3.0
200101005	TECHNIQUES FOR THE CONSERVATION OF ARCHITECTURAL HERITAGE	—	Spring	12.0
504102007	Telecommunication systems and services	Español	Spring	6.0
211101009	Telecommunications engineering project	Español	Spring	3.0
504102003	Telecommunications networks and services	Español	Fall	6.0
505103003	Telematic instrumentation and network lab	Español	Fall	6.0
504101010	Telematics Fundamentals	English, Español	Spring	6.0
211101004	Terrestrial and space radiocommunications	Español	Fall	6.0
519104006	THEORY OF ARCHITECTURAL HERITAGE	—	Spring	6.0
508103002	THEORY OF MECHANISMS AND MACHINES	Español	Fall	6.0
223101010	THEORY OF STRUCTURES (Industrial)	Español	Spring	6.0
508103003	THEORY OF STRUCTURES (Mechanical)	Español	Fall	6.0
504102009	Theory of telecommunication networks	Español	Spring	6.0
200101004	THEORY, HISTORY AND MANAGEMENT IN CONSERVATION OF ARCHITECTURAL HERITAGE	—	Spring	6.0
512104001	Thermal Engineering	Español	Fall	6.0
223102002	THERMAL EQUIPMENT PROJECTS AND INSTALLATIONS	Español	Fall	3.0
508104003	THERMAL MACHINES	Español	Fall	7.5

CODE	COURS (LIEN VERS SA DESCRIPTION)	LANGUES D'ENSEIGNEMENT	SAISONS	ECTS
522101011	TOPOGRAPHY	Español	Spring	6.0
519109012	TOPOGRAPHY AND PHOTOGRAMMETRY	—	Fall	3.0
502103009	TOPOGRAPHY AND SURVEY	—	Spring	6.0
504103008	Transmission techniques	Español	Spring	6.0
223102028	Transport Engineering	Español	Spring	3.0
211101013	Ubiquitous computing and environmental networks	Español	Spring	3.0
519109016	URBAN AND NATURAL LANDSCAPE	—	Fall	3.0
519104008	URBAN LEGISLATION	—	Spring	6.0
502104005	URBAN PLANNING MANAGEMENT	—	Fall	3.0
519103009	URBANISTICS 1	—	Spring	6.0
519104007	URBANISTICS 2	—	Spring	6.0
223102020	VERIFICATION AND TESTING OF MACHINES	Español	Fall	3.0
226101003	WASTE AND SOIL MANAGEMENT AND TREATMENT	Español	Spring	4.5
522104012	WATER RESOURCES PLANNING AND MANAGEMENT	Español	Spring	4.5
522103005	WATER SUPPLY	Español	Fall	6.0
508109020	WELDING ENGINEERING	Español	Spring	4.5
505103001	Wide bandwidth networks	Español	Fall	7.5
505103008	Wireless networks	English, Español	Spring	6.0
525103009	Written Natural Language Processing	Español	Spring	6.0
	Total			**2 470.0**