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Degree in Civil Engineering

Master in Civil Engineering

University of Granada



STUDY CIVIL ENGINEERING **IN GRANADA?**

A HIGH-RANKING UNIVERSITY

According to the 2018 Shanghai Academic Ranking of World Universities (ARWU), the UGR is the third-highest ranked university in Spain.

✓ A TRULY INTERNATIONAL EXPERIENCE

The UGR is a welcoming cosmopolitan university: about 10% of undergraduate and 20% of postgraduate students at our university are international.

✓ LANGUAGE LEARNING OPPORTUNITIES

Students can learn Spanish and other languages alongside the 10,000 local and international students who enroll each year in courses offered by the UGR's Modern Languages Centre.

✓ WORLD-CLASS RESEARCH

The UGR is internationally renowned for its excellence in diverse research fields, such as Civil Engineering.

OUTSTANDING FACILITIES AND ACTIVITIES

The UGR offers a wide range of top-quality services for its students (accommodation, libraries, Wi-Fi, refectories, disabled facilities, sports and many more).

✓ AN IDEAL UNIVERSITY CITY

The UGR merges with the city, its schools and campuses distributed throughout Granada, giving the city a lively student atmosphere (more than 60,000 students in a city of 250.000 inhabitants).

AN UNBEATABLE LOCATION

Granada has an outstanding geographical location just 40 min. from the Mediterranean Coast with its tropical climate, and 30 min. from the Sierra Nevada ski resort.

▼ COMMITMENT TO SUSTAINABLE DEVELOPMENT AND COOPERATION

The UGR is firmly committed to the UN Sustain. Develop. Goals. Students take part in local community service and international development cooperation activities.

DEGREE IN CIVIL ENGINEERING DEGREE IN CIVIL ENGINEERING DEGREE IN CIVIL ENGINEERING DEGREE IN

PRINCIPACIFIC 1	COURSE	SEMESTER	FCTS	COURSE	SEMESTER	ECTS
FURTHER HYDRAULICS AND HYDROLOGY						
POWER SYSTEMS	FUNDAMENTALS OF COMPUTER SCIENCE	1	6	ENVIRONMENTAL ENGINEERING AND WATER QUALITY	1	6
Mathematical analysis	GEOLOGY	1	6	FURTHER HYDRAULICS AND HYDROLOGY	1	6
Physics 1	GRAPHIC ENGINEERING I	1	6	POWER SYSTEMS	1	6
Page	MATHEMATICAL ANALYSIS	1	6	HYDRAULIC WORKS I	2	6
REGISHATION IN CIVIL ENGINEERING 2 3 SCIENCE AND TECHNOLOGY OF MATERIALS 2 6 TOPOGRAPHY 2 6 TOPOGRAPHY 2 6 TOPOGRAPHY 2 6 TORNIRON METALLIMPACT 1 3 3 ENVIRON METALLIMPACT 1 3 4 FURTHER MARTHEMATICS 1 6 TORNIRON METALLIMPACT 1 3 6 FURTHER MARTHEMATICS 1 6 TERRIFORIALI PLANNING AND HISTORY OF CIVIL ENGINEERING 1 6 TERRIFORIALI PLANNING AND HISTORY OF CIVIL ENGINEERING 2 6 FURDANDATION IN CIVIL ENGINEERING 3 6 FURDANDATION IN CONTRUCTION BUSINESSES 3 6 FURDANDATION IN CONTRUCTION	PHYSICS	1	6	SANITATION ENGINEERING	2	6
SCIENCE AND TECHNOLOGY OF MATERIALS 2 6 TRANSPORTS 'STEMS 1 6 6 TOPOGRAPHY 2 7 TOPOGRAPHY	APPLIED MATHEMATICS	2	9	SPECIALIZATION: TRANSPORTS AND URBAN SERVICES		30
TRANSPORT SYSTEMS 1 6	LEGISLATION IN CIVIL ENGINEERING	2	3	REGIONAL PLANNING	1	6
VIRBAN PLANNING	SCIENCE AND TECHNOLOGY OF MATERIALS	2	6	ROADS AND AIRPORTS	1	6
	STATISTICS	2	6	TRANSPORT SYSTEMS	1	6
PUNTRONMENTAL IMPACT 1 3 3 4 4 COURSE 2 4 6	TOPOGRAPHY	2	6	URBAN PLANNING	2	6
PURTIER MATHEMATICS	2 ND		60	OPTION	2	6
MECHANICS FOR ENGINEERS 1 9 ORGANIZATION AND MANAGEMENT OF PROJECTS 1 6 SOL AND ROCK MECHANICS. GEOTECHNICS 1 6 STEEL STRUCTURES 1 6 TERRITORIAL PLANNING AND HISTORY OF CIVIL ENGINEERING 2 6 FINAL DEGREE PROJECT 2 12 ELECTRICAL ENGINEERING 2 6 FINAL DEGREE PROJECT 2 1 6 FOUNDATIONS IN CIVIL ENGINEERING 2 3 BUILDING 1 6 GRAPHIC ENGINEERING II 2 6 CONSTRUCTION PROCEDURES II 1 9 HYDRAULICS AND HYDROLOGY 2 9 PREFABRICATED ELEMENTS 1 3 ORGANIZATION AND MANAGEMENT OF CONSTRUCTION BUSINESSES 2 6 RAILWAYS 2 6 3III 60 OPTION 2 12 6 COMMON AND COMPULSORY SUBJECTS 3 HEALTH AND SAFETY IN CONSTRUCTION WORKS 1 3 HYDRAULIC WORKS II 1 6 STRUCTURAL ANALYSIS 1 3 HYDROLEGUCAY AND GROUNDWATER MANAGEMENT 2	ENVIRONMENTAL IMPACT	1	3	4 TH COURSE		60
STELL STRUCTURES	FURTHER MATHEMATICS	1	6	COMMON AND COMPULSORY SUBJECTS		24
TERRITORIAL PLANNING AND HISTORY OF CIVIL ENGINEERING	MECHANICS FOR ENGINEERS	1	9	ORGANIZATION AND MANAGEMENT OF PROJECTS	1	6
ELECTRICAL ENGINEERING 2 6 SPECIALIZATION:CIVIL CONSTRUCTION 3 6 SPECIALIZATION:CIVIL CONSTRUCTION 3 6 SPECIALIZATION:CIVIL CONSTRUCTION 3 6 SPECIALIZATION:CIVIL CONSTRUCTION STRUCTION STRUCTION STRUCTION STRUCTION STRUCTION STRUCTION STRUCTION STRUCTION BUSINESSES 2 6 CONSTRUCTION PROCEDURES II 1 9 PREFABRICATED ELEMENTS 1 3 SPECIALIZATION:AND MANAGEMENT OF CONSTRUCTION BUSINESSES 2 6 CONSTRUCTION PROCEDURES II 1 3 SPECIALIZATION:AND MANAGEMENT OF CONSTRUCTION BUSINESSES 2 6 CONSTRUCTION STRUCTION STRUCTION BUSINESSES 2 6 CONSTRUCTION STRUCTION WORKS 2 10 SPECIALIZATION:AND CONSTRUCTION WORKS 1 3 SPECIALIZATION:AND CONSTRUCTION WORKS 1 6 LITORAL HYDRAULIC WORKS II 1 6 STRUCTUREAL ANALYSIS LITORAL HYDRAULIC WORKS II 1 6 STRUCTURES 2 6 HYDROGEOLOGY AND GROUNDWATER MANAGEMENT 2 3 STRUCTURES 2 6 HYDROGEOLOGY AND GROUNDWATER MANAGEMENT 2 3 STRUCTURES 3 SPECIALIZATION:TRANSPORTS AND URBAN SERVICES 1 6 SPECIALIZATION:TRANSPORTS AND URBAN S	SOIL AND ROCK MECHANICS. GEOTECHNICS	1	6	STEEL STRUCTURES	1	6
FOUNDATIONS IN CIVIL ENGINEERING 2 3 3 BUILDING 1 6 CONSTRUCTION PROCEDURES II 1 9	TERRITORIAL PLANNING AND HISTORY OF CIVIL ENGINEERING	1	6	FINAL DEGREE PROJECT	2	12
CONSTRUCTION PROCEDURES 1	ELECTRICAL ENGINEERING	2	6	SPECIALIZATION:CIVIL CONSTRUCTION		36
PREFABRICATED ELEMENTS 1 3 3 3 3 3 3 3 3 3	FOUNDATIONS IN CIVIL ENGINEERING	2	3	BUILDING	1	6
ORGANIZATION AND MANAGEMENT OF CONSTRUCTION BUSINESSES 2 6 RAILWAYS 2 6 3°°° 60 OPTION 2 12 COMMON AND COMPULSORY SUBJECTS 30 SPECIALIZATION: HYDROLOGY 36 HEALTH AND SAFETY IN CONSTRUCTION WORKS 1 3 HYDRAULIC WORKS II 1 6 STRUCTURAL ANALYSIS 1 6 LITORAL HYDRAULICS 1 6 CONSTRUCTION PROCEDURES I 2 6 HYDROLOGICAL PLANNING 2 3 REINFORCED CONCRETE 2 6 HYDROLOGICAL PLANNING 1 8 CHOOSE FROM 3 SPECIALIZATION: TRANSPORTS AND URBAN SERVICES 1 8 SPECIALIZATION: CONSTRUCTION 30 INTERMODALITY: INFRASTRUCTURE AND SERVICES 1 6 GEOTECHNICS OF CIVIL WORKS 1 6 URBAN SANITATION ENGINEERING 1 6 MARINE AND COASTAL ENGINEERING 1 6 LIGHTING TECHNIQUES 2 3 ROADS 1 6 PORTS AND COASTAL INTEGRATED MANAGEMENT 2 <th< td=""><td>GRAPHIC ENGINEERING II</td><td>2</td><td>6</td><td>CONSTRUCTION PROCEDURES II</td><td>1</td><td>9</td></th<>	GRAPHIC ENGINEERING II	2	6	CONSTRUCTION PROCEDURES II	1	9
SPECIALIZATION:CIVIL CONSTRUCTION 2 12 12 12 12 13 14 15 15 15 15 15 15 15	HYDRAULICS AND HYDROLOGY	2	9	PREFABRICATED ELEMENTS	1	3
COMMON AND COMPULSORY SUBJECTS 30 SPECIALIZATION: HYDROLOGY 36	ORGANIZATION AND MANAGEMENT OF CONSTRUCTION BUSINESSES	2	6	RAILWAYS	2	6
HEALTH AND SAFETY IN CONSTRUCTION WORKS 1 3 HYDRAULIC WORKS II 1 6 6 6 6 6 6 6 6 6	3 RD		60	OPTION	2	12
STRUCTURAL ANALYSIS 1 6 LITORAL HYDRAULICS 1 6 CONSTRUCTION PROCEDURES I 2 6 HYDROGEOLOGY AND GROUNDWATER MANAGEMENT 2 3 REINFORCED CONCRETE 2 6 HYDROGEOLOGY AND GROUNDWATER MANAGEMENT 2 3 THEORY OF STRUCTURES 2 9 OPTION 1-2 18 CHOOSE FROM SPECIALIZATION: CIVIL CONSTRUCTION 30 INTERMODALITY: INFRASTRUCTURE AND SERVICES 1 6 GEOTECHNICS OF CIVIL WORKS 1 6 URBAN SANITATION ENGINEERING 1 6 MARINE AND COASTAL ENGINEERING 1 6 LIGHTING TECHNIQUES 2 3 ROADS 1 6 PORTS AND COASTAL INTEGRATED MANAGEMENT 2 3 SANITATION ENGINEERING IN CIVIL CONSTRUCTION 2 6 RAILWAY AND GUIDED TRANSPORT 2 6 OPTION 1-2 12 6 OPTION 1-2 12 12	COMMON AND COMPULSORY SUBJECTS		30	SPECIALIZATION: HYDROLOGY		36
CONSTRUCTION PROCEDURES I 2 6 HYDROGEOLOGY AND GROUNDWATER MANAGEMENT 2 3 REINFORCED CONCRETE 2 6 HYDROLOGICAL PLANNING 2 3 THEORY OF STRUCTURES 2 9 OPTION 1-2 18 CHOOSE FROM SPECIALIZATION: CIVIL CONSTRUCTION 30 INTERMODALITY: INFRASTRUCTURE AND SERVICES 1 6 GEOTECHNICS OF CIVIL WORKS 1 6 URBAN SANITATION ENGINEERING 1 6 MARINE AND COASTAL ENGINEERING 1 6 LIGHTING TECHNIQUES 2 3 ROADS 1 6 PORTS AND COASTAL INTEGRATED MANAGEMENT 2 3 SANITATION ENGINEERING 1 6 RAILWAY AND GUIDED TRANSPORT 2 6 OPTION 1-2 12	HEALTH AND SAFETY IN CONSTRUCTION WORKS	1	3	HYDRAULIC WORKS II	1	6
REINFORCED CONCRETE 2 6 HYDROLOGICAL PLANNING 2 3 THEORY OF STRUCTURES 2 9 OPTION 1-2 18 CHOOSE FROM SPECIALIZATION: TRANSPORTS AND URBAN SERVICES 36 SPECIALIZATION: CIVIL CONSTRUCTION 30 INTERMODALITY: INFRASTRUCTURE AND SERVICES 1 6 GEOTECHNICS OF CIVIL WORKS 1 6 URBAN SANITATION ENGINEERING 1 6 MARINE AND COASTAL ENGINEERING 1 6 LIGHTING TECHNIQUES 2 3 ROADS 1 6 PORTS AND COASTAL INTEGRATED MANAGEMENT 2 3 SANITATION ENGINEERING IN CIVIL CONSTRUCTION 2 6 RAILWAY AND GUIDED TRANSPORT 2 6 OPTION 1-2 1-2 12 12 12 12 12	STRUCTURAL ANALYSIS	1	6	LITORAL HYDRAULICS	1	6
THEORY OF STRUCTURES 2 9 OPTION 1-2 18 CHOOSE FROM SPECIALIZATION: TRANSPORTS AND URBAN SERVICES 36 SPECIALIZATION: CIVIL CONSTRUCTION 30 INTERMODALITY: INFRASTRUCTURE AND SERVICES 1 6 GEOTECHNICS OF CIVIL WORKS 1 6 URBAN SANITATION ENGINEERING 1 6 MARINE AND COASTAL ENGINEERING 1 6 LIGHTING TECHNIQUES 2 3 ROADS 1 6 PORTS AND COASTAL INTEGRATED MANAGEMENT 2 3 SANITATION ENGINEERING IN CIVIL CONSTRUCTION 2 6 RAILWAY AND GUIDED TRANSPORT 2 6 OPTION 1-2 1-2 12 12 12 12	CONSTRUCTION PROCEDURES I	2	6	HYDROGEOLOGY AND GROUNDWATER MANAGEMENT	2	3
CHOOSE FROMSPECIALIZATION: TRANSPORTS AND URBAN SERVICES36SPECIALIZATION:CIVIL CONSTRUCTION30INTERMODALITY: INFRASTRUCTURE AND SERVICES16GEOTECHNICS OF CIVIL WORKS16URBAN SANITATION ENGINEERING16MARINE AND COASTAL ENGINEERING16LIGHTING TECHNIQUES23ROADS16PORTS AND COASTAL INTEGRATED MANAGEMENT23SANITATION ENGINEERING IN CIVIL CONSTRUCTION26RAILWAY AND GUIDED TRANSPORT26OPTION26OPTION1-212	REINFORCED CONCRETE	2	6	HYDROLOGICAL PLANNING	2	3
SPECIALIZATION:CIVIL CONSTRUCTION30INTERMODALITY: INFRASTRUCTURE AND SERVICES16GEOTECHNICS OF CIVIL WORKS16URBAN SANITATION ENGINEERING16MARINE AND COASTAL ENGINEERING16LIGHTING TECHNIQUES23ROADS16PORTS AND COASTAL INTEGRATED MANAGEMENT23SANITATION ENGINEERING IN CIVIL CONSTRUCTION26RAILWAY AND GUIDED TRANSPORT26OPTION26OPTION1-212	THEORY OF STRUCTURES	2	9	OPTION	1-2	18
GEOTECHNICS OF CIVIL WORKS 1 6 URBAN SANITATION ENGINEERING 1 6 MARINE AND COASTAL ENGINEERING 1 6 LIGHTING TECHNIQUES 2 3 ROADS 1 6 PORTS AND COASTAL INTEGRATED MANAGEMENT 2 3 SANITATION ENGINEERING IN CIVIL CONSTRUCTION 2 6 RAILWAY AND GUIDED TRANSPORT 2 6 OPTION 1-2 12	CHOOSE FROM			SPECIALIZATION: TRANSPORTS AND URBAN SERVICES		36
MARINE AND COASTAL ENGINEERING 1 6 LIGHTING TECHNIQUES 2 3 ROADS 1 6 PORTS AND COASTAL INTEGRATED MANAGEMENT 2 3 SANITATION ENGINEERING IN CIVIL CONSTRUCTION 2 6 RAILWAY AND GUIDED TRANSPORT 2 6 OPTION 1-2 12	SPECIALIZATION:CIVIL CONSTRUCTION		30	INTERMODALITY: INFRASTRUCTURE AND SERVICES	1	6
ROADS 1 6 PORTS AND COASTAL INTEGRATED MANAGEMENT 2 3 SANITATION ENGINEERING IN CIVIL CONSTRUCTION 2 6 RAILWAY AND GUIDED TRANSPORT 2 6 OPTION 2 6 OPTION 1-2 12	GEOTECHNICS OF CIVIL WORKS	1	6	URBAN SANITATION ENGINEERING	1	6
SANITATION ENGINEERING IN CIVIL CONSTRUCTION 2 6 RAILWAY AND GUIDED TRANSPORT 2 6 OPTION 2 6 OPTION 1-2 12	MARINE AND COASTAL ENGINEERING	1	6	LIGHTING TECHNIQUES	2	3
OPTION 2 6 OPTION 1-2 12	ROADS	1	6	PORTS AND COASTAL INTEGRATED MANAGEMENT	2	3
	SANITATION ENGINEERING IN CIVIL CONSTRUCTION	2	6	RAILWAY AND GUIDED TRANSPORT	2	6
TOTAL 240	OPTION	2	6	OPTION	1-2	12
				TOTAL		240

MASTER IN CIVIL ENGINEERING MASTER IN CIVIL ENGINEERING MASTER IN CIVIL ENGINEERING

COURSE	SEMIESTER	ECIS	
1 ST		60,0	
ADVANCED AND COMPUTATIONAL FLUID MECHANICS	1	4,5	
ADVANCED POWER SYSTEMS IN ENGINEERING	1	3,0	
CONTINUUM MECHANICS	1	4,5	
PARTIAL DIFFERENTIAL EQUATIONS	1	4,5	
SIMULATION AND ANALYSIS OF ENVIRONMENTAL SYSTEMS	1	4,5	
URBAN PLANNING AND MANAGEMENT	1	4,5	
ADVANCED TECHNIQUES IN CONSTRUCTION	2	3,0	
ADVANCED KNOWLEDGE OF TERRAIN ENGINEERING	2	6,0	
ADVANCED STRUCTURAL ANALYSIS	2	6,0	
AIRPORTS	2	3,0	
PRESTRESSED CONCRETE	2	3,0	
WASTEWATER TREATMENT AND URBAN WASTE MANAGEMENT	2	4,5	
OPTION	1-2	9,0	

	COURSE	SEMESTER	ECTS
	2 ND		60,0
	BRIDGES	1	6,0
	CONSTRUCTION PROJECT MANAGEMENT	1	4,5
	OCEAN, ATMOSPHERIC AND COASTAL DYNAMICS	1	3,0
	PLANNING, DESIGN AND MANAGEMENT OF HYDRAULIC STRUCTURES	1	3,0
	TRANSPORT PLANNING AND MANAGEMENT	1	4,5
	FINAL MASTER PROJECT	2	12,0
	WORK PLACEMENT	2	6,0
	OPTION	1-2	21,0
	TOTAL		120