



1. General information

Course: UNDERGRADUATE DISSERTATION

Type: PROJECT

Degree: 378 - UNDERGRADUATE DEGREE PROGRAMME IN ARCHITECTURE

Center: 606 - SCHOOL OF ARCHITECTURE OF TOLEDO

Year: 5

Main language: Spanish

Use of additional
languages:

Web site:

Code: 11332

ECTS credits: 30

Academic year: 2021-22

Group(s): 40

Duration: SD

Second language:

English Friendly: Y

Bilingual: N

Lecturer: FRANCISCO JAVIER BERNALTE PATON - Group(s): 40				
Building/Office	Department	Phone number	Email	Office hours
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Lecturer: NICOLAS MARTIN DOMINGUEZ - Group(s): 40				
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Edificio 21/por determinar	DPTO. EN CONSTITUCIÓN	925268800	Nicolas.Martin@uclm.es	
Lecturer: JUAN IGNACIO MERA GONZALEZ - Group(s): 40				
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2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

Not established

4. Degree competences achieved in this course

Course competences

Code	Description
E01	Applied knowledge of numerical calculus, analytical and differential geometry and algebraic methods
E02	Adequate and applied knowledge of metric and projective geometry in architecture and urban planning
E03	Adequate and applied knowledge of the principles of general mechanics, statics, mass geometry and vector fields in architecture and town planning
E04	Adequate and applied knowledge of the principles of thermodynamics, acoustics and optics in architecture and urban planning
E05	Adequate and applied knowledge of the principles of fluid mechanics, hydraulics, electricity and electromagnetism in architecture and town planning
E06	Adequate knowledge applied to architecture and urban planning of spatial representation systems: the analysis and theory of form and the laws of visual perception
E07	Adequate knowledge applied to architecture and urban planning in all its phases, from the drawing of notes to scientific restitution.
E08	Adequate and applied knowledge in architecture and urban planning of the basics of topography, hypsometry and cartography and techniques of land modification
E09	Ability to apply graphic knowledge to the representation of spaces and objects
E10	Ability to conceive and represent the visual attributes of objects
E11	Ability to master proportion
E12	Ability to master drawing techniques
E13	Ability to master computer drawing techniques
E14	Ability to apply technical and constructive standards
E15	Ability to preserve building structures, foundations and civil works
E16	Ability to preserve the thick work
E17	Ability to preserve the finished work
E18	Ability to maintain facilities
E19	Applied knowledge of the plastic, elastic and constructive qualities of heavy building materials
E20	Applied knowledge of the physical and chemical characteristics of building materials
E21	Applied knowledge of production procedures, pathology and use of construction materials
E22	Applied knowledge of conventional construction systems and their pathology
E23	Applied knowledge of industrialized construction systems
E24	Applied knowledge of the professional office organization
E25	Applied knowledge of property management and administration
E26	Applied knowledge of measurement, valuation and expertise methods
E27	Applied knowledge of the health and safety project on site, now health and safety
E28	Applied knowledge of ecology, sustainability and the principles of conservation of energy and environmental resources

E29	Applied knowledge of solid, continuous media and soil mechanics
E30	Applied knowledge of ethics, collegial organization, professional structure, and civil liability
E31	Applied knowledge of administrative, management and professional procedures
E32	Ability to conceive, calculate, design, integrate and implement foundation solutions in buildings and urban complexes
E33	Ability to conceive, calculate, design, integrate and execute building structures and urban complexes
E34	Ability to conceive, calculate, design, integrate and execute in buildings and urban complexes enclosure systems, roofs and other heavy construction work.
E35	Ability to conceive, calculate, design, integrate and execute in buildings and urban complexes an interior partitioning system, carpentry, staircases and other finished works.
E36	Ability to conceive, calculate, design, integrate and execute in buildings and urban complexes Water supply, treatment and drainage systems
E37	Ability to design, calculate, design, integrate and implement heating and air-conditioning systems in buildings and district assemblies
E38	Ability to solve passive environmental conditioning
E39	Ability to solve thermal and acoustic conditioning, climate control
E40	Ability to solve energy efficiency and natural lighting problems
E41	Suitability for construction management
E42	Ability to evaluate the works
E43	Ability to design building and urban installations for electrical transformation and supply, from communication to audio-visual.
E44	Ability to design building and urban installations for acoustic conditioning and artificial lighting
E45	Ability to apply and exercise architectural criticism
E46	Ability to catalogue built and urban heritage and plan its protection
E47	Ability to implement planning regulations and ordinances
E48	Applied knowledge of general theories of form, composition and architectural types
E49	Applied knowledge of the general history of architecture
E50	Applied knowledge of the aesthetics and theory and history of fine and applied arts
E51	Applied knowledge of the relationship between cultural patterns and the architect's social responsibilities
E52	Applied knowledge of the basics of vernacular architecture
E53	Applied knowledge of the architectural, urban and landscape traditions of the urban and landscape traditions of Western culture, as well as their technical, climatic, economic, social and ideological foundations.
E54	Applied knowledge of feasibility analysis and the supervision and coordination of integrated projects
E55	Applied knowledge of ecology, sustainability and the principles of conservation of energy and environmental resources
E56	Applied knowledge of the methodological foundations of urban planning and spatial and metropolitan planning
E57	Applied knowledge of the mechanisms for drafting and managing urban plans at any scale
E58	Applied knowledge of urban sociology, theory, economics and history
E59	Applied knowledge of civil, administrative and urban planning regulations, building regulations, building regulations, building regulations, building regulations and industry regulations and professional performance regulations.
E60	Applied knowledge of feasibility analysis and the supervision and coordination of integrated projects
E61	Applied knowledge of real estate appraisal
E62	Applied knowledge of the study methods of symbolization processes, practical functions and ergonomics
E63	Applied knowledge of methods of studying social needs, quality of life, habitability and basic housing programmes
E64	Ability to develop functional building programmes
E65	Ability to develop functional programmes for urban spaces
E66	Skills in the practical design and development of basic and implementation projects, sketches and preliminary projects
E67	Skills for practical conception and development of urban projects
E68	Competence in the practical design and development of construction management
E69	Ability to intervene in and conserve, restore and rehabilitate built heritage
E70	Ability to remove architectural barriers
E71	Ability to solve passive environmental conditioning
E72	Ability to solve thermal and acoustic conditioning, climate control
E73	Ability to solve energy efficiency and natural lighting problems
E74	Ability to prepare environmental, landscape and environmental impact correction studies
E75	Ability to write security, evacuation and property protection projects
E76	Ability to write civil works projects
E77	Ability to design and execute urban layouts
E78	Ability to design and implement development projects
E79	Ability to design and execute landscape and gardening projects
G01	Capacity for analysis and synthesis
G02	Organizational and planning skills
G03	Information management capacity
G04	Problem solving
G05	Decision making
G06	Critical thinking
G07	Working in a team
G08	Working in an interdisciplinary team
G09	Working in an international context
G10	Interpersonal skills
G11	Recognition of diversity and multiculturalism
G12	Self-directed learning
G13	Adaptation to new situations
G14	Conflict management and negotiation
G15	Sensitivity to environmental issues
G16	Creativity
G17	Leadership

G18	Initiative and entrepreneurship
G19	Innovation
G20	Motivation for quality
G21	Proficiency in a second foreign language, preferably English, at level B1 of the Common European Framework of Reference for Languages
G22	Mastery of Information and Communication Technologies (ICT)
G23	Correct oral or written communication
G24	Ethical commitment and professional ethics

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Awareness of the need to adapt architectural projects so that they are as harmless as possible to the environment.

Ability to manage an architectural project, in its design, development and implementation.

Ability to present and defend ideas, problems and solutions in the field of Architecture projects.

Knowledge of the different tasks to be performed within an Architecture Studio.

Interrelation between the parts of a project.

6. Units / Contents

No units added

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Individual tutoring sessions [ON-SITE]	Individual presentation of projects and reports	E01 E02 E03 E04 E05 E06 E07 E08 E09 E10 E11 E12 E13 E14 E15 E16 E17 E18 E19 E20 E21 E22 E23 E24 E25 E26 E27 E28 E29 E30 E31 E32 E33 E34 E35 E36 E37 E38 E39 E40 E41 E42 E43 E44 E45 E46 E47 E48 E49 E50 E51 E52 E53 E54 E55 E56 E57 E58 E59 E60 E61 E62 E63 E64 E65 E66 E67 E68 E69 E70 E71 E72 E73 E74 E75 E76 E77 E78 E79 G01 G02 G03 G04 G05 G06 G07 G08 G09 G10 G11 G12 G13 G14 G15 G16 G17 G18 G19 G20 G21 G22 G23 G24	3	75	Y	N	
Final test [ON-SITE]	Individual presentation of projects and reports	E01 E02 E03 E04 E05 E06 E07 E08 E09 E10 E11 E12 E13 E14 E15 E16 E17 E18 E19 E20 E21 E22 E23 E24 E25 E26 E27 E28 E29 E30 E31 E32 E33 E34 E35 E36 E37 E38 E39 E40 E41 E42 E43 E44 E45 E46 E47 E48 E49 E50 E51 E52 E53 E54 E55 E56 E57 E58 E59 E60 E61 E62 E63 E64 E65 E66 E67 E68 E69 E70 E71 E72 E73 E74 E75 E76 E77 E78 E79 G01 G02 G03 G04 G05 G06 G07 G08 G09 G10 G11 G12 G13 G14 G15 G16 G17 G18 G19 G20 G21 G22 G23 G24	1	25	Y	N	
Self-study [OFF-SITE]		E01 E02 E03 E04 E05 E06 E07 E08 E09 E10 E11 E12 E13 E14 E15 E16 E17 E18 E19 E20 E21 E22 E23 E24 E25 E26 E27 E28 E29 E30 E31 E32 E33 E34 E35 E36 E37 E38 E39 E40 E41 E42 E43 E44 E45 E46 E47 E48 E49 E50 E51 E52 E53 E54 E55 E56 E57 E58 E59 E60 E61 E62 E63 E64 E65 E66 E67 E68 E69 E70 E71 E72 E73 E74 E75 E76 E77 E78 E79 G01 G02 G03 G04	26	650	Y	N	

		G05 G06 G07 G08 G09 G10 G11 G12 G13 G14 G15 G16 G17 G18 G19 G20 G21 G22 G23 G24					
Total:			30	750			
Total credits of in-class work: 4			Total class time hours: 100				
Total credits of out of class work: 26			Total hours of out of class work: 650				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System			
Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Final test	100.00%	100.00%	
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Robert Venturi	COMPLEJIDAD Y CONTRADICIÓN EN ARQUITECTURA https://ggili.com/complejidad-y-contradiccion-en-la-arquitectura-libro.html	GG	Barcelona	9788425216022	2008	
Bernard Rudofsky	ARQUITECTURA SIN ARQUITECTOS https://www.casadellibro.com/libro-arquitectura-sin-arquitectos-un-breve-introduccion-a-la-arquitectura-sin-pedrigi/9788417386559/11655655	MOMA	NYC		1964	
Sigfried Gideon	ESPACIO, TIEMPO Y ARQUITECTURA https://www.reverte.com/libro/eua-17-espacio-tiempo-y-arquitectura_113102/	Reverté	Barcelona	97884-291-2117-9	2009	
Herman Hertzberger	LESSONS FOR STUDENTS IN ARCHITECTURE http://hicarquitectura.com/2017/11/alison-and-peter-smithson-the-charged-void-architecture/	010 PUBLISHERS	Rotterdam	978-94-620-8319-6	2016	
Rem Koolhaas	DELIRIOUS NYC https://ggili.com/delirio-de-nueva-york-libro.html	GG	Barcelona	84-252-1966-3	2004	
Adam Sharr	LA CABAÑA DE HEIDEGGER: UN ESPACIO PARA PENSAR https://ggili.com/la-caba-a-de-heidegger-libro-2511.html	GG	Barcelona	9788425228377	2015	
Alison+Peter Smithson	THE CHARGED VOID: URBANISM http://hicarquitectura.com/2017/11/alison-and-peter-smithson-the-charged-void-architecture/	Monacelli Press	NYC	978-1580930505	2005	
Reiner Banham	EL ENTORNO CLIMATIZADO http://intranet.pogmacva.com/es/bibliografias/14512	Infinito	Buenos Aires		1975	
Rudofsky, Bernard	ARQUITECTURA SIN ARQUITECTOS https://www.pepitas.net/libro/arquitectura-sin-arquitectos	Pepitas	Logroño	978-84-17386-55-9	2020	
Ronner, Heinz/Jahveri, Sharad	LOUIS KAHN: COMPLETE WORK 1935-1974 https://www.agapea.com/libros/Louis-I-Kahn-Complete-Work-1935-74-9783764313470-i.htm	Birkhäuser	Basilea	9783764313470	1987	
Earl E. Rosenthal	EL PALACIO DE CARLOS V EN LA ALHAMBRA https://www.librerialapecera.es/libro/el-palacio-de-carlos-v-en-granada_100585	Alianza Editorial	Madrid	9788420690407	1988	
Dennis Scott Brown	APRENDIENDO DE LAS VEGAS https://ggili.com/aprendiendo-de-las-vegas-libro-2856.html	GG	Barcelona	978-84-252-2821-6	2016	
Otl Aicher	EL MUNDO COMO PROYECTO http://www.fadu.edu.uy/estetica-diseno-ii/files/2019/03/el_mundo_como_proyecto-Otl-Aicher1.pdf	GG	Barcelona	978-84-25-22-0289	1994	
Steen Eiler Rasmussen	LA EXPERIENCIA DE LA ARQUITECTURA https://www.reverte.com/libro/eua-05-la-experiencia-de-la-arquitectura_113107/	Reverté	Barcelona	9878429121056	2007	
Siegfried Giedion	LA MECANIZACIÓN TOMA EL MANDO/Colección Punto y Línea https://www.iberlibro.com/9788425207204/mecanizaci%C3%B3n-toma-mando-Tecnolog%C3%ADa-sociedad-8425207207/plp	GG	Barcelona	9788425207204	1978	

Henry David Thoreau	WALDEN https://erratanaturae.com/product/walden/	Errata Naturae	Madrid	978-84-16544-42-4	2017
Le Corbusier	HACIA UNA ARQUITECTURA http://www.edicionesinfinito.com/publicaciones_int.php?id=228	Ediciones Infinito	Buenos Aires	9789873970047	2016
Philip Johnson/ Henry Russell Hitchcock	MODERN ARCHITECTURE https://assets.moma.org/documents/moma_catalogue_2044_300061855.pdf	MOMA	NYC		1932