



## 1. General information

**Course:** LANDSCAPE AND ENVIRONMENTAL ASSESSMENT**Type:** CORE COURSE**Degree:** 345 - UNDERGRADUATE DEGREE PROGRAMME IN CIVIL ENGINEERING**Center:** 603 - E.T.S. CIVIL ENGINEERS OF CR**Year:** 4**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 38333**ECTS credits:** 6**Academic year:** 2022-23**Group(s):** 20**Duration:** C2**Second language:** English**English Friendly:** Y**Bilingual:** Y**Lecturer:** MAXIMO FLORIN BELTRAN - Group(s): 20

Building/Office	Department	Phone number	Email	Office hours
Edificio Politécnico / 2D61	CIENCIA Y TECNOLOGÍA AGROFORESTAL Y GENÉTICA	926295209	maximo.florin@uclm.es	Monday, from 10:30 a.m. to 11:30 a.m., and from 12:00 p.m. to 2:00 p.m. Outside these hours, by appointment.

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## 2. Pre-Requisites

- Ecology applied to Civil Engineering
- Graphic-Cartographic Expression
- Topography
- Environmental engineering

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

It includes competences established by regulations within the Degree in Civil and Territorial Engineering. It is directly related to the subjects of planning, design, project and construction of civil works. Nowadays, the justification of the infrastructures goes through the knowledge of the landscape that welcomes them and the previous evaluation of their environmental viability, obligatory requirements for their construction.

## 4. Degree competences achieved in this course

## Course competences

Code	Description
CE20	Students have the capacity to apply methodologies for environmental impact assessments and studies
CE32	Students have knowledge and understanding of ecosystem structure and functioning, landscape and environmental factors.
CE33	Students have the ability to apply ecological and landscape criteria to the practice of the profession of Civil Engineer in general, with special attention to the functions of design, project, construction, operation and monitoring.
CE34	Students reach the understanding of the ecological, environmental and landscape constraints of a technical and legal nature that arise in the construction of a public work, and the ability to use proven methods and technologies, with the aim of achieving the greatest efficiency in construction while respecting the environment.
CE35	Students have the capacity for integrated management and sustainable use of water and energy resources.
CE36	Students have the capacity to carry out studies on spatial planning and on the environmental aspects related to infrastructures.
CG02	Students can use proper oral and written communication
TSU04	Students have knowledge of the impact of infrastructure on spatial planning and have knowledge to participate in the urban development, such as water supply, sanitation, waste management, transportation systems, traffic, lighting, etc.

## 5. Objectives or Learning Outcomes

## Course learning outcomes

## Description

Students can define design criteria for hydraulic and environmental engineering projects from the river basin scale to the aquatic habitat scale, considering temporal variability from daily to interannual, using standardized office, field and laboratory techniques for the diagnosis and physical, chemical and biological analysis of the condition of water bodies (core competencies TSU4 and E4; secondary competencies E1, E2, E3).

Sustainability in the design, development, implementation, operation and monitoring of civil engineering projects, in cooperation with the life support system, through the application of tools for the assessment and analysis of the structure and functioning of ecosystems and the landscape (core competencies E1 and E2; secondary competencies E3 and E5).

Students can define territorial and urban planning criteria and linear infrastructure layout based on the diagnosis, analysis and interpretation of ecosystem sectorization and classification and ecological, environmental, landscape and cultural processes at different scales of space, time and level of organization (main competency E5; secondary competencies E1, E2, E3).

Application of environmental assessment techniques for the design, review and improvement of civil engineering projects and the planning of remedial action, compensation and ecological restoration, and development of innovations, based on the analysis of ecosystem responses to natural and human disturbances and understanding of the ecological effects of civil engineering on ecosystems (core competencies CRC11, E3; secondary competency E5).

## Additional outcomes

Errata: 122419 Sustainability in the design, development, execution, exploitation and monitoring of civil engineering projects, in cooperation with the landscape processes, through the application of diagnostic tools and analysis of the structure and operation of ecosystems and landscape (main competences E1 and E2, secondary competences E3 and E5). 122420 Application of techniques of environmental evaluation for the conception, review and improvement of civil engineering projects and the planning of corrective measures, compensation and ecological restoration, and the development of innovations, based on the analysis of ecosystem responses to natural and anthropogenic disturbances and the understanding of the ecological effects of civil engineering on ecosystems (competences main CRC11, E3; secondary competence E5).

Current codes of the competences to which the old codes mentioned in the previous section correspond: E1 = CE32 Competence, E2 = Competence CE33, E3 = Competence CE34, E4 = Competence CE35, E5 = Competence CE36, CRC11 = Competence CE20, TSU4 = TSU04 Competence.

Errata: 122419 Sustainability in the design, development, execution, exploitation and monitoring of civil engineering projects, in cooperation with the landscape processes, through the application of diagnostic tools and analysis of the structure and operation of ecosystems and landscape (main competences E1 and E2, secondary competences E3 and E5). 122420 Application of techniques of environmental evaluation for the conception, review and improvement of civil engineering projects and the planning of corrective measures, compensation and ecological restoration, and the development of innovations, based on the analysis of ecosystem responses to natural and anthropogenic disturbances and the understanding of the ecological effects of civil engineering on ecosystems (competences main CRC11, E3; secondary competence E5).

## 6. Units / Contents

**Unit 1: Landscape concepts and approaches**

**Unit 2: Environmental Impact Assessment and Strategic Environmental Assessment techniques: procedures and application in Civil Engineering**

**Unit 3: Landscape reality (relief, ecology, land use, population and history)**

**Unit 4: Visual exposition and scenography (factors of visibility, scenographic structures, garden history, design of public spaces)**

**Unit 5: Landscape aesthetics and meaning (perception, visual elements, composition, meanings, landscape theories)**

**Unit 6: Public works in landscape (lineal infrastructures, hydraulic works, coastal works, bridges, singular buildings)**

## 7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.3	7.5	Y	N	The evaluation will be made from the results of the teacher's questions, cooperative learning, flipped class, etc. The non-compulsory nature of class attendance is recognized in the right to non-continuous evaluation.
Workshops or seminars [ON-SITE]	Workshops and Seminars	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.2	5	Y	Y	It will be evaluated through tutorials.
Analysis of articles and reviews [OFF-SITE]	Workshops and Seminars	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.4	10	Y	Y	It will be evaluated through tutorials.
Problem solving and/or case studies [ON-SITE]	project-based learning	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.26	6.5	Y	Y	
Problem solving and/or case studies [ON-SITE]	Case Studies	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.2	5	Y	Y	
Writing of reports or projects [OFF-SITE]	Case Studies	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.4	10	Y	Y	
Project or Topic Presentations [ON-SITE]	project-based learning	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.2	5	Y	Y	
Study and Exam Preparation [OFF-SITE]	project-based learning	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	1	25	Y	Y	It will be evaluated through tutorials.
Class Attendance (practical) [ON-SITE]	Lectures	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.3	7.5	Y	N	
Class Attendance (practical) [ON-SITE]	Practical or hands-on activities	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.42	10.5	Y	Y	
Group tutoring sessions [ON-SITE]	Group tutoring sessions	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.06	1.5	Y	N	
Final test [ON-SITE]	Assessment tests	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.06	1.5	Y	Y	
Writing of reports or projects [OFF-SITE]	project-based learning	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	1.42	35.5	Y	Y	
Practicum and practical activities report writing or preparation [OFF-SITE]	Practical or hands-on activities	CE20 CE32 CE33 CE34 CE35 CE36 TSU04	0.78	19.5	Y	Y	
<b>Total:</b>			<b>6</b>	<b>150</b>			
<b>Total credits of in-class work: 2</b>			<b>Total class time hours: 50</b>				
<b>Total credits of out of class work: 4</b>			<b>Total hours of out of class work: 100</b>				

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
Fieldwork assessment	18.00%	18.00%	
Assessment of problem solving and/or case studies	21.00%	21.00%	In the "non-continuous evaluation" modality, it will be carried out through concerted tutorships.

Theoretical papers assessment	27.00%	27.00%	In the "non-continuous evaluation" modality, it will be carried out through concerted tutorships.
Practicum and practical activities reports assessment	21.00%	21.00%	
Oral presentations assessment	9.00%	9.00%	In the "non-continuous evaluation" modality, it will be carried out through concerted tutorships.
Assessment of activities done in the computer labs	1.00%	1.00%	
Assessment of problem solving and/or case studies	1.00%	1.00%	In the "non-continuous evaluation" modality, it will be carried out through concerted tutorships.
Assessment of active participation	1.00%	1.00%	In the "non-continuous evaluation" modality, it will be carried out through concerted tutorships.
Final test	1.00%	1.00%	Eventually, at the request of the students, they will be able to take two progress tests, at the middle and end of the semester, which will score for the average grade according to the student's time of dedication.
<b>Total:</b>	<b>100.00%</b>	<b>100.00%</b>	

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).

#### Evaluation criteria for the final exam:

##### Continuous assessment:

Numerical final grade from 0 to 10 according to current legislation, rescaling grades obtained by students who have passed to a normal distribution, to cover the proportions and ECTS System categories, namely:

Numerical note Qualification Category ECTS Percentile approved Assessment

5.0 to 5.9 Approved E 1 to 10% Sufficient

6.0 to 6.9 Approved D 11 to 35% Satisfactory

7.0 to 8.9 Remarkable C 36 to 65% Good

9.0 to 10.0 Outstanding B 66 to 90% Very good

10.0 Honor License \* A 91 to 100% Excellent

\* The number of Honors will be adjusted to the maximum allowed by the regulations.

Unless stated otherwise, continuous evaluation criteria will be applied to all students.

Anyone choosing non-continuous assessment must notify it to the lecturer within the class period of the subject. The option is only available if the student's participation in evaluation activities (from the continuous assessment) has not reached 50% of the total evaluation for the subject.

For the retake exam, the assessment type used for the final exam will remain valid.

All training activities will be recoverable by means of a written exam that will allow assessing the acquisition of all the skills in the ordinary call.

##### Non-continuous evaluation:

Final examination. Students who, having partially or totally followed the academic activities, have passed a delivery, practice, exam, etc., will have the right to examine the entire subject or only the part of the subject that they have not passed, which should be communicated to the lecturer immediately after the publication of the provisional notes. This right will expire with the academic year.

Unless stated otherwise, continuous evaluation criteria will be applied to all students.

Anyone choosing non-continuous assessment must notify it to the lecturer within the class period of the subject. The option is only available if the student's participation in evaluation activities (from the continuous assessment) has not reached 50% of the total evaluation for the subject.

For the retake exam, the assessment type used for the final exam will remain valid.

All training activities will be recoverable by means of a written exam that will allow assessing the acquisition of all the skills in the ordinary call.

#### Specifications for the resit/retake exam:

The same as final exam.

Unless stated otherwise, continuous evaluation criteria will be applied to all students.

Anyone choosing non-continuous assessment must notify it to the lecturer within the class period of the subject. The option is only available if the student's participation in evaluation activities (from the continuous assessment) has not reached 50% of the total evaluation for the subject.

For the retake exam, the assessment type used for the final exam will remain valid.

All training activities will be recoverable by means of a written exam that will allow assessing the acquisition of all the skills in the extraordinary call.

#### Specifications for the second resit / retake exam:

Extraordinary examination. Students who, having partially or totally followed the academic activities, have passed a delivery, practice, exam, etc., will have the right to examine the entire subject or only the part of the subject that they have not passed, which should be communicated to the lecturer immediately after the publication of the provisional notes. This right will expire with the academic year.

All training activities will be recoverable by means of a written exam that will allow assessing the acquisition of all the skills in the final special call.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Unit 1 (de 6): Landscape concepts and approaches	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1
Analysis of articles and reviews [AUTÓNOMA][Workshops and Seminars]	2
Problem solving and/or case studies [PRESENCIAL][project-based learning]	1
Problem solving and/or case studies [PRESENCIAL][Case Studies]	1
Writing of reports or projects [AUTÓNOMA][Case Studies]	2
Project or Topic Presentations [PRESENCIAL][project-based learning]	1
Study and Exam Preparation [AUTÓNOMA][project-based learning]	4
Class Attendance (practical) [PRESENCIAL][Lectures]	1

Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	1
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	.2
Final test [PRESENCIAL][Assessment tests]	.2
Writing of reports or projects [AUTÓNOMA][project-based learning]	6
Practicum and practical activities report writing or preparation [AUTÓNOMA][Practical or hands-on activities]	3
<b>Unit 2 (de 6): Environmental Impact Assessment and Strategic Environmental Assessment techniques: procedures and application in Civil Engineering</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1
Analysis of articles and reviews [AUTÓNOMA][Workshops and Seminars]	2
Problem solving and/or case studies [PRESENCIAL][project-based learning]	1
Problem solving and/or case studies [PRESENCIAL][Case Studies]	1
Writing of reports or projects [AUTÓNOMA][Case Studies]	2
Project or Topic Presentations [PRESENCIAL][project-based learning]	1
Study and Exam Preparation [AUTÓNOMA][project-based learning]	4
Class Attendance (practical) [PRESENCIAL][Lectures]	1
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	2
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	.2
Final test [PRESENCIAL][Assessment tests]	.2
Writing of reports or projects [AUTÓNOMA][project-based learning]	6
Practicum and practical activities report writing or preparation [AUTÓNOMA][Practical or hands-on activities]	3
<b>Unit 3 (de 6): Landscape reality (relief, ecology, land use, population and history)</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1
Analysis of articles and reviews [AUTÓNOMA][Workshops and Seminars]	2
Problem solving and/or case studies [PRESENCIAL][project-based learning]	1
Problem solving and/or case studies [PRESENCIAL][Case Studies]	1
Writing of reports or projects [AUTÓNOMA][Case Studies]	2
Project or Topic Presentations [PRESENCIAL][project-based learning]	1
Study and Exam Preparation [AUTÓNOMA][project-based learning]	4
Class Attendance (practical) [PRESENCIAL][Lectures]	1
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	2
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	.2
Final test [PRESENCIAL][Assessment tests]	.2
Writing of reports or projects [AUTÓNOMA][project-based learning]	6
Practicum and practical activities report writing or preparation [AUTÓNOMA][Practical or hands-on activities]	3
<b>Unit 4 (de 6): Visual exposition and scenography (factors of visibility, scenographic structures, garden history, design of public spaces)</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1
Analysis of articles and reviews [AUTÓNOMA][Workshops and Seminars]	2
Problem solving and/or case studies [PRESENCIAL][project-based learning]	1
Problem solving and/or case studies [PRESENCIAL][Case Studies]	1
Writing of reports or projects [AUTÓNOMA][Case Studies]	2
Project or Topic Presentations [PRESENCIAL][project-based learning]	1
Study and Exam Preparation [AUTÓNOMA][project-based learning]	4
Class Attendance (practical) [PRESENCIAL][Lectures]	1
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	2
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	.2
Final test [PRESENCIAL][Assessment tests]	.2
Writing of reports or projects [AUTÓNOMA][project-based learning]	6
Practicum and practical activities report writing or preparation [AUTÓNOMA][Practical or hands-on activities]	3
<b>Unit 5 (de 6): Landscape aesthetics and meaning (perception, visual elements, composition, meanings, landscape theories)</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	1
Analysis of articles and reviews [AUTÓNOMA][Workshops and Seminars]	2
Problem solving and/or case studies [PRESENCIAL][project-based learning]	1
Problem solving and/or case studies [PRESENCIAL][Case Studies]	1
Writing of reports or projects [AUTÓNOMA][Case Studies]	2
Project or Topic Presentations [PRESENCIAL][project-based learning]	1
Study and Exam Preparation [AUTÓNOMA][project-based learning]	4
Class Attendance (practical) [PRESENCIAL][Lectures]	1
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	2
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	.2
Final test [PRESENCIAL][Assessment tests]	.2
Writing of reports or projects [AUTÓNOMA][project-based learning]	6
Practicum and practical activities report writing or preparation [AUTÓNOMA][Practical or hands-on activities]	3
<b>Unit 6 (de 6): Public works in landscape (lineal infrastructures, hydraulic works, coastal works, bridges, singular buildings)</b>	
<b>Activities</b>	<b>Hours</b>

Class Attendance (theory) [PRESENCIAL][Lectures]	2.5
Problem solving and/or case studies [PRESENCIAL][project-based learning]	1.5
Study and Exam Preparation [AUTÓNOMA][project-based learning]	5
Class Attendance (practical) [PRESENCIAL][Lectures]	2.5
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	1.5
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	.5
Final test [PRESENCIAL][Assessment tests]	.5
Writing of reports or projects [AUTÓNOMA][project-based learning]	5.5
Practicum and practical activities report writing or preparation [AUTÓNOMA][Practical or hands-on activities]	4.5
<b>Global activity</b>	
<b>Activities</b>	<b>hours</b>
Study and Exam Preparation [AUTÓNOMA][project-based learning]	25
Class Attendance (theory) [PRESENCIAL][Lectures]	7.5
Workshops or seminars [PRESENCIAL][Workshops and Seminars]	5
Analysis of articles and reviews [AUTÓNOMA][Workshops and Seminars]	10
Problem solving and/or case studies [PRESENCIAL][project-based learning]	6.5
Problem solving and/or case studies [PRESENCIAL][Case Studies]	5
Writing of reports or projects [AUTÓNOMA][Case Studies]	10
Project or Topic Presentations [PRESENCIAL][project-based learning]	5
Class Attendance (practical) [PRESENCIAL][Lectures]	7.5
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	10.5
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	1.5
Final test [PRESENCIAL][Assessment tests]	1.5
Writing of reports or projects [AUTÓNOMA][project-based learning]	35.5
Practicum and practical activities report writing or preparation [AUTÓNOMA][Practical or hands-on activities]	19.5
<b>Total horas: 150</b>	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Albelda, José Luis (Albelda Raga)	La construcción de la naturaleza	Direcció General de Promoció Cultural, Museus i		84-482-1691-1	1997	
Araújo, J.	La cultura ecológica	Fundación César Manrique			1995	
Berger, John	Modos de ver	Gustavo Gili		978-84-252-1807-1	2010	
Bermingham, A.	Landscape and ideology	Thames and Hudson	Londres	0-520-06623-5	1987	
Burel, Françoise	Ecología del paisaje : conceptos, métodos y aplicaciones	Mundi-Prensa		84-8476-014-6	2002	
Coronado, J.M.; Español, I.M.; García, J.; Guirao, B.; Menéndez, J.M.; Muñoz Espinosa, E.M.; Ureña, J.M.	Estudio complementario al estudio informativo de la autovía de conexión entre las autovías de Ciudad Real-Puertollano y de Extremadura en su tramo Miajadas-Mérida.	Universidad de Castilla-La Mancha	Ciudad Real		2004	
Cruz Pérez, Linarejos	El paisaje : de la percepción a la gestión	Liteam		978-84-92558-06-3	2009	
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Diego, A.; Muñoz Espinosa, E.M.; Ruiz, C.; Álvarez, I.; Pérez, A. (eds)	Alternativas para la marisma de Bengoa. I Foro de Restauración Ambiental de Cantabria.	Consejería de Medio Ambiente de Cantabria.	Santander		2005	
Español Echániz, Ignacio	Las obras públicas en el paisaje : guía para el análisis y	Ministerio de Fomento, Centro de Publicaciones		84-498-0356-X	1998	
Español, I.M.	El valor del paisaje : un repertorio de experiencias para la	Ministerio de Medio Ambiente y Medio Rural y Ma		978-84-491-1053-5 (O	2010	
Español, I.M. y Muñoz Espinosa, E.M. (eds)	El Valle del Alto Besaya : una lectura del paisaje desde las	Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos de la UCLM UNESCO -	Ciudad Real	978-84-7493-378-9	2007	

Español, I.M.; Muñoz Espinosa, E.M.; de Santos, D.	El paisaje como instrumento de la Gestión Integral de Costas. Estudio de tres casos.	Oficina Regional de Ciencia para América Latina y el Caribe. Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos de la UCLM	Uruguay			2012
Español, I.M.; Muñoz Espinosa, E.M.; Tafalla, M. (eds)	El paisaje del alto Segura. La dimensión ética de la fragilidad y la belleza de un río	Ingenieros de Caminos, Canales y Puertos de la UCLM	Ciudad Real	978-84-7493-399-4		2009
Maderuelo, Javier (1950-)	El paisaje : génesis de un concepto	Abada		84-96258-56-4		2005
Muñoz Espinosa, E.M.	Infrastructures for creating and reclaiming landscapes.	European Council	Francia			2013
Muñoz Espinosa, E.M.; Español, I.M.; Florín, M.	Fundamental boundaries of the fluvial space. Application to environmental planning.	Aula Documental de Investigación (ADI) y Universidad de Castilla-La Mancha. Ministerio de Medio Ambiente, Centro de Publica	Ciudad Real	978-84-931805-6		2007
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Esquirol, J.M.	El respeto o la mirada atenta. Una ética para la era de la ciencia y la tecnología.	Gedisa Ed. Filosofía	Barcelona			2006
AA.VV.	El Paisaje en la ingeniería	Colegio de Ingenieros de Caminos, Canales y Puertos	Madrid			2001
AA.VV.	Los paisajes fluviales en la planificación y gestión del agua. Elementos para la consideración del paisaje en la cuenca hidrográfica del Guadalquivir.	Centro de Estudios Paisaje y Territorio, Consejería de Obras Públicas y Vivienda, Universidades Públicas de Andalucía, Confederación Hidrográfica del Guadalquivir.				2012