



| Teaching Guide | | | | |
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| Identifying Data | | | | 2015/16 |
| Subject (*) | Analysis on Architectural Form | Code | 630G01007 | |
| Study programme | Grao en Arquitectura | | | |
| Descriptors | | | | |
| Cycle | Period | Year | Type | Credits |
| Graduate | 2nd four-month period | First | FB | 6 |
| Language | Spanish | | | |
| Teaching method | Face-to-face | | | |
| Prerequisites | | | | |
| Department | Representación e Teoría Arquitectónica | | | |
| Coordinador | Perez Cid, Miguel angel | E-mail | miguel.pcid@udc.es | |
| Lecturers | Fernandez-Gago Longueira, Paula Fraga Lopez, Fernando Fraga Lopez, Francisco Javier Franco Taboada, Arturo Perez Cid, Miguel angel | E-mail | paula.fernandez-gago@udc.es fernando.fraga@udc.es javier.fraga@udc.es arturo.franco@udc.es miguel.pcid@udc.es | |
| Web | departamentos.etsa.udc.es/webryta/ | | | |
| General description | The objective of this course is to settle the student's knowledge of the architectural graphic representation through basically the practice of FreeHand Drawing. | | | |

| Study programme competences / results | |
|---------------------------------------|--|
| Code | Study programme competences / results |
| A10 | REPRESENTACIÓN ESPACIAL: aptitude ou capacidade para aplicar, tanto manual como informaticamente, os sistemas de representación gráfica, dominando os procedementos de proxección e corte, os aspectos cuantitativos e selectivos da escala e a relación entre o plano e a profundidade. |
| A13 | IDEACIÓN GRÁFICA: aptitude ou capacidade para concibir e representar graficamente a figura, a cor, a textura e a luminosidade dos obxectos e dominar a proporción e as técnicas de debuxo, incluídas as informáticas. |
| A37 | ANÁLISE DE FORMAS: comprensión ou coñecemento das leis da percepción visual e da proporción, as teorías da forma e da imaxe, as teorías estéticas da cor e os procedementos de estudo fenomenolóxico e analítico das formas arquitectónicas e urbanas. |
| A39 | RESTITUCIÓN GRÁFICA: comprensión ou coñecemento das técnicas de medición e levantamento gráfico de edificios e de ámbitos urbanos e naturais en todas as súas fases, dende o debuxo de apuntamentos á restitución científica. |
| B1 | Learn how to learn |
| B3 | Aplicar un pensamento crítico, lóxico e creativo. |
| B4 | Traballar de forma autónoma con iniciativa. |
| B7 | Comunicarse de maneira efectiva nun entorno de traballo. |
| B8 | Visión espacial. |
| B9 | Creatividade. |
| B10 | Sensibilidade estética. |
| B11 | Capacidade de análise e síntese. |
| B13 | Imaxinación. |
| B14 | Habilidade gráfica xeral. |
| B17 | Cultura histórica. |
| B18 | Razoamento crítico. |
| B19 | Traballo nun equipo de carácter interdisciplinar. |
| C3 | Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida. |
| C6 | Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse. |
| C7 | Asumir como profesional e cidadán a importancia da aprendizaxe ao longo da vida. |



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| C8 | Valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance socioeconómico e cultural da sociedade. |
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| Learning outcomes | | | |
|--|---------------------------------------|---|----------------------|
| Learning outcomes | Study programme competences / results | | |
| <p>Ability to apply graphic representation systems. Ability to handle projection and section systems. Ability to handle the quantitative and selective aspects of the scale. Ability to establish the relationship between the plane and depth.</p> | A10 | B1 B3 B4 B7 B8 B9 B10 B11 B13 B14 B17 B18 B19 | C3 C6 C7 C8 |
| <p>Ability to conceive and represent the figure, colour, texture, and brightness and also dominate the objects proportion. Knowledge of the drawing techniques -including the computer ones-, all of them fundamental to the correct approach to the proyectual skill, a prelude to the project representation. Knowledge and understanding of the stages of graphic learning, from the initial perceptual stage to the final creative representation.</p> | A13 | B1 B3 B4 B7 B8 B9 B10 B11 B13 B14 B17 B18 B19 | C3 C6 C7 C8 |
| <p>Knowledge and understanding of the visual perception and proportion laws, form and image theories, the aesthetic theories of color and procedures of phenomenological and analytical study of the architectural and urban forms.</p> | A37 | B1 B3 B4 B7 B8 B10 B11 B13 B14 B17 B18 B19 | C3 C6 C7 C8 |



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| Knowledge, understanding and management of measurement techniques and graphic survey of buildings and urban and natural areas at every stage, from drawing sketches to detailed depiction. | A39 | B1 | C3 |
| | | B3 | C6 |
| | | B4 | C7 |
| | | B7 | C8 |
| | | B8 | |
| | | B9 | |
| | | B10 | |
| | | B11 | |
| | | B13 | |
| | | B14 | |
| | B17 | | |
| | B18 | | |
| | B19 | | |

| Contents | |
|--|--|
| Topic | Sub-topic |
| ANALYSIS ON ARCHITECTURAL FORMS THROUGH FREEHAND DRAWING | Laws of visual perception and rules of proportion. Theories of form and image. Aesthetic theories of color. Analysis and description of architectural forms and spaces from significant examples of current or historical architecture. Human figures as reference of scale. Method of study, analysis and representation of architectural and urban forms. Freehand drawing and life sketching Employment and management of different techniques. |
| SKETCHING AND GRAPHIC SURVEY | Sketching and freehand drawing techniques Sketches and life drawing. Measurement techniques and graphic survey |
| CREATIVE DRAWING AND IDEATION SKETCHES | Creative graphic depiction as the aim of learning approach. Techniques for architectural design presentation. Composite drawing |

| Planning | | | | |
|--------------------------------|---|--------------------------------------|-------------------------------|-------------|
| Methodologies / tests | Competencies / Results | Teaching hours (in-person & virtual) | Student?s personal work hours | Total hours |
| Workshop | A10 A13 A37 A39 B1 B3 B4 B7 B8 B9 | 28 | 54 | 82 |
| Workshop | A10 A13 A37 A39 B3 B4 B7 B8 | 14 | 36 | 50 |
| Objective test | A10 A13 A37 A39 | 6 | 0 | 6 |
| Guest lecture / keynote speech | A10 A13 A37 A39 B3 B4 B7 B8 B9 B10 B11 B13 B14 B17 B18 B19 C3 C6 C7 C8 | 11 | 0 | 11 |
| Personalized attention | | 1 | 0 | 1 |

(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

| Methodologies | |
|---------------|-------------|
| Methodologies | Description |
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|--------------------------------|---|
| Workshop | <p>SUBJECT WORKSHOP. In this workshop practical lessons (28 hours) ?non included in the second term workshop? and all the previously proposed work the student must develop in the stipulated time (54 hours) for this supervised methodology must be taken into account.</p> <p>The total stipulated time should guaranteed a graphic volume previously determined by the professor.</p> |
| Workshop | <p>SECOND TERM WORKSHOP. Shared among the different subjects of Analysis on Architectural Forms and Projects 2. One or several in group essays will be proposed to be developed by the students outside the classroom.</p> <p>Lessons concerning this methodology in the classroom will be dedicated to the planning of the essays, to a series of theoretical lessons and to the supervised control of the proposed work.</p> <p>This methodology is meant to the learningship of ?how things must be done? focused on specific supervised essays to promote the students autonomous learningship.</p> |
| Objective test | <p>A practical examination used to the evaluation of the learningship whose distinctive aspect is the possibility to determine whether the acquired learningship is the expected to pass the examination.</p> <p>It is a measure instrument, rigorously elaborated which allows to evaluate the capacities, abilities and attitudes.</p> <p>It will consist of 2-4 drawings (6 hours), as the examination official timetable will establish.</p> |
| Guest lecture / keynote speech | <p>Oral exposition complemented by audio-visual means and some other resources, to transmit knowledge and facilitate learningship.</p> <p>Subject theoretical contents (combined in three major general themes) will be exposed in a non-lineal way, as the teacher should estimate to obtain the preview results and concerning the group heterogeneity.</p> |

Personalized attention

| Methodologies | Description |
|----------------------|--|
| Workshop Workshop | <p>This academic activity will be developed by the professor, either individual or in small group and its finality is to have into consideration the student's needs and doubts in relation with the current essays, helping and motivating them during the learning process.</p> <p>For this subject and the already exposed methodologies it is fundamental to consult the professor about the weekly improvement to assure the quality of the essays according to the criteria which will be indicated in each case.</p> <p>Considering the importance the personalized care this subject has, this tutorial is compulsory for the students. Non assistance to the arranged tutorials (1h), the students will be given a ?non evaluated?.</p> |

Assessment

| Methodologies | Competencies / Results | Description | Qualification |
|--------------------------------|---|---|---------------|
| Guest lecture / keynote speech | A10 A13 A37 A39 B3 B4 B7 B8 B9 B10 B11 B13 B14 B17 B18 B19 C3 C6 C7 C8 | A minimum of 80% of assistance to lessons is compulsory for all students. | 1 |
| Workshop | A10 A13 A37 A39 B1 B3 B4 B7 B8 B9 | <p>SUBJECT WORKSHOP: 30% of the qualifications.</p> <p>In this workshop, two different kind of essays will be developed:</p> <p>1) Drawings made in the classroom. This essays will be proposed by the professors and will be used to control both the evaluation of the students and reference of the essays made outside the classroom by the students.</p> <p>2) Drawings made by the students outside the classrooms will consist of free drawings though teachers will be able to propose a specific essay weekly. This essay will be the fundamental object of the tutorial.</p> <p>Both kind of essays will be evaluated continuously.</p> | 30 |



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|----------------|--------------------------------|---|----|
| Workshop | A10 A13 A37 A39 B3 B4 B7 B8 | <p>SECOND TERM WORKSHOP: 20% of the qualification.</p> <p>Tutored essays which evaluation will be made together with the two subjects that share the workshop. The final qualification will be the two subjects average qualification.</p> <p>This workshop is compulsory for all the students, even for those who had passed some of the two subjects previously.</p> | 19 |
| Objective test | A10 A13 A37 A39 | <p>OBJECTIVE ASSESSMENT: 50% of the qualification.</p> <p>This methodology is meant to determine whether the student improvement has been sufficient and in concordance with what has been done in the workshops. It will be divided into two parts, three hours each, where the essays proposed by the professors will be developed.</p> <p>Students must obtain five points over ten in this methodology in order to pass this subject.</p> | 50 |

Assessment comments

To pass this subject, in any of the two evaluations within the course (the one belonging to the term or in the second opportunity in July) is an essential requirement to have done all the proposed essays in the different methodologies with the minimum established level and the correct professor tutorial. Otherwise the student will be consider non evaluated.

Students who only attend the second opportunity in July will be specially obligated to fulfill what has been exposed above.

A minimum of 80% of assistance is compulsory to pass the subject, otherwise students will be non evaluated.

Considering the importance the personalized care this subject has, this tutorial is compulsory for the students. Non assistance to the arranged tutorials (1h), the students will be given a ?non evaluated?.

Sources of information

| | |
|----------------------|---|
| Basic | <ul style="list-style-type: none"> - Martin, Judy (1994). APRENDER A ABOCETAR. Barcelona, Ed. Blume - Moneo, R. y Cortés, J. (1982). COMENTARIO SOBRE 20 ARQUITECTOS DEL SIGLO XX.. Barcelona. Ed. U. Politecnica Cataluña - Cramer, Johannes (). CONSTRUCCIÓN. LEVANTAMIENTO TOPOGRAFICO EN LA CONSTRUCCIÓN. . Barcelona, Ed. G.G. - Mills, Criss B. (2000). DESIGNING WITH MODELS. . Nueva York. Ed. John Wiley & Sons - Redondo, E. y Delgado, M. (). DIBUJO A MANO ALZADA PARA ARQUITECTOS. . Barcelona. Ed. Parramón - Uddin, M.S. (2000). DIBUJO AXONOMÉTRICO. . México. Ed. McGraw Hill - Uddin, M.S. (2000). DIBUJO DE COMPOSICIÓN. . México. Ed. McGraw Hill - Ching, Francis (1999). DIBUJO Y PROYECTO. . México. Ed. G.G. México - Cooper, Douglas (1992). DRAWING AND PERCEIVING. . Nueva York. Ed. Van Nostrand Reinhold - Ching, Francis (1982). MANUAL DE DIBUJO ARQUITECTONICO. . México. Ed. G.G. México - Porter y Goodman (1983-84-85). MANUAL DE TÉCNICAS GRÁFICAS PARA ARQUITECTOS. VOL 1,2,3 Y 4.. Barcelona. Ed. G.G. - Knoll, W. y Hechinger, M. (1982). MAQUETAS DE ARQUITECTURA: TECNICAS Y CONSTRUCCIÓN. . México. Ed. G.G. México - De Grandis, Luigina (1985). TEORIA Y USO DEL COLOR. . Madrid, Ed. Cátedra - Nikolaides, Kimon (). THE NATURAL WAY TO DRAW. . Boston, Ed. Houghton Mifflin |
| Complementary | |

Recommendations

Subjects that it is recommended to have taken before



Architectural Projects 1/630G01001
Architectural Drawing/630G01002
Descriptive Geometry/630G01003

Subjects that are recommended to be taken simultaneously

Architectural Projects 2/630G01006

Subjects that continue the syllabus

Proxectos 3/630G01011
Análise Arquitectónico 1/630G01012
Xeometría da Forma Arquitectónica/630G01014

Other comments

It would be advisable for new students before joining this subject, that previously had completed courses in high school on technical and freehand drawing.

(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.