



Universitat de Lleida

DEGREE CURRICULUM

# TOPOGRAPHY AND RESTATED

Coordination: ESCOLÀ AGUSTÍ, ALEXANDRE

Academic year 2018-19

Subject's general information

<b>Subject name</b>	TOPOGRAPHY AND RESTATED			
<b>Code</b>	101411			
<b>Semester</b>	1st Q(SEMESTER) CONTINUED EVALUATION			
<b>Typology</b>	<b>Degree</b>	<b>Course</b>	<b>Character</b>	<b>Modality</b>
	Bachelor's Degree in Architectural Technology and Building Construction	3	COMPULSORY	Attendance-based
<b>Course number of credits (ECTS)</b>	6			
<b>Type of activity, credits, and groups</b>	<b>Activity type</b>	PRAULA		TEORIA
	<b>Number of credits</b>	3		3
	<b>Number of groups</b>	1		1
<b>Coordination</b>	ESCOLÀ AGUSTÍ, ALEXANDRE			
<b>Department</b>	AGRICULTURAL AND FOREST ENGINEERING			
<b>Important information on data processing</b>	Consult <a href="#">this link</a> for more information.			
<b>Language</b>	Catalan 45% English 10% Spanish 45%			
<b>Office and hour of attention</b>	Shall be schedule with the students CREA building ( Edificació laboratory)			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ESCOLÀ AGUSTÍ, ALEXANDRE	aescola@eagrof.udl.cat	,9	
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### Subject's extra information

Like the learning methodologies that are going away to use in this course are the skillful lessons, the personal study, the learning based on problems and practices, he is indispensable that the student organizes his time to be able to harmonize the dedication to all the subjects. The short whiles of studies would have to be short whiles of very active studies and far from those distractions that absorb the mind and the time of the student.

The responsible professors have been able to state with the this although passage of time that the success comes from an obstinate will of work and not from a fast and gracious mind, what he doubts fits, contributes. On the other hand, how it is possible to be appreciated, the main technique with that they are going away to develop the contents is the skillful classes. Skillful: he is the relative thing to the teacher exercise; but taken care of: everything what it is said from the platform is not correct and valid. The student would have to develop a healthily critical spirit to clear the superficial and nonauthentic contents and to remain with which he is worth. Nevertheless, in the points and recommendations in which the professor wants to spur the student, the student would have to assume them how tasks that will make of him a competent professional. Of the previous attitude reflective he is inevitable that appears points that are considered that they are not correct; they can be attitudes of the teaching staff, forms to give the matter, already to evaluate, etc. Arrived at the this easiest point it would be in falling in a critic between the students whom a loss of illusion by the matter and the contents produces. Nevertheless the here signatory ones are open to all the contributions with eagerness to improve the quality of teaching. By means of it is complicity student-professor will obtain quality teaching.

Finally, but how main point that must develop the student, is the overcoming eagerness. The difficulties will be many that will be appearing in the course of the fourth month period, but the student must understand them like personal challenges. To even tend to the tasks that nobody wants when it works in group will forge in them a strong will and one heals arrogance.

Specifically, the Topography is the science that studies the set of principles and procedures for the graphical representation of the Earth surface, with its natural forms and details as as much artificial (planimetry and altimetry). This representation takes place in flat surfaces, limited small earth extensions, using the name of Geodesy for greater areas. It will be learned how to take to these forms and details to the reality by means of the Layout. At the moment, the Topography is based on the handling of equipment and specific software. The use of these technologies has great interest and application in other matters of the degree.

### Learning objectives

The objectives of the knowledge. Students who exceed the subject must understand and demonstrate knowledge:

\* with the Topography and Layout to obtain, process and analyse the information of the territory in order to be able to create and build the elements designed in the office.

\* get the concepts and methods for carrying out planimetric and set outs, altimètrics and leveling.

Objectives of capacity (skills). Students who exceed the subject should be able to:

\* Carry out planimetric and set outs, altimètrics and leveling. \* Prepare and submit the necessary documents that represent the creation and building of the elements designed.

\* Knowing how to apply the knowledge about data structures in the representation of the information of the territory in the creation of geographical databases.

## Competences

### University of Lleida strategic competences

- Correctness in oral and written language.
- Master a foreign language.

### Degree-specific competences

- Ability to apply the systems of spatial representation, the development of sketches, the promotion, the language and the techniques of graphic representation of the constructive elements and processes.
- Aptitude to work with topographical instrumentation and proceed to the graphical construction of sites and buildings and their implementation in the field .
- Ability to interpret and elaborate the graphical documentation of a project, perform data collection, plan preparation and geometrical control of work units.
- Knowledge of the computer graphics and cartographic methods in the field of building.

### Degree-transversal competences

- Ability to reunite and interpret relevant data, inside an area of study, to express reasons which include reflecting upon relevant subjects of a social, scientific or ethical nature.
- Ability for abstraction and critical, logical and mathematical reasoning.
- Ability to analyse and synthesise.
- Ability to plan and organise the personal work.
- Ability to resolve problems and elaborate and defend arguments inside an area of study.
- Possess the necessary learning abilities to undertake further studies or improve training with a certain degree of autonomy.
- Be motivated to pursue quality and continued improvement.

## Bibliography

### Recommended bibliography

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[5] Boehler,W., "Comparison of 3D scanning and other measurement techniques," Recording, modeling and visualization of cultural heritage, London: Taylor &Francis Group, 2006, págs. 89-99.

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- [22] de-Corral,I., Topografía de obras, Barcelona: Edicions UPC, 1996.
- [23] Chueca-Pazos,M., Baselga-Moreno,S., y Anquela-Julian,A.B., Microgeodesia y redes locales: complementos docentes, Valencia: SPUPV, 2003.
- [24]Chueca-Pazos,M., Berné-Valero,J.L., y Herráez-Boquera,J., Teoría de errores e instrumentación, Valencia: 1996.
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