

		Teaching Guide				
	Identifying	Data			2017/18	
Subject (*)	Microscopic Organography			Code	610G02009	
Study programme	Grao en Bioloxía		i			
		Descriptors				
Cycle	Period	Year		Туре	Credits	
Graduate	2nd four-month period	Second		Obligatoria	6	
Language	Spanish					
Teaching method	Face-to-face					
Prerequisites						
Department	Bioloxía					
Coordinador	Lamas Criado, Iban E-mail iban.lamas@udc.es				c.es	
Lecturers	Díaz Prado, María Luz E-mail		-mail	luz.diaz@udc.es		
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	Lamas Criado, Iban			iban.lamas@udc.es		
Web						
General description	- Study of the basic anatomical stru	cture of the different or	gans of the l	oody of the upper v	ascular plants and of the	
	organization of the organic systems of the body of the upper vertebrates (mammalian), to microscopic level.					
	- Bases of the microscopic Organography in upper vegetables. Bases of the microscopic Organography in upper					
	vertebrates (mammalian).					
	- The asignatura is basic for other disciplines like the Physiology (vegetal and animal), Immunology, Pathology and					
	Embryology					

	Study programme competences	
Code	Study programme competences	
A1	Recoñecer distintos niveis de organización nos sistemas vivos.	
A4	Obter, manexar, conservar e observar especímenes.	
A5	Analizar e caracterizar mostras de orixe humana.	
A11	Identificar e analizar material de orixe biolóxica e as súas anomalías.	
A29	Impartir coñecementos de Bioloxía.	
A30	Manexar adecuadamente instrumentación científica.	
A31	Desenvolverse con seguridade nun laboratorio.	
B1	Aprender a aprender.	
B3	Aplicar un pensamento crítico, lóxico e creativo.	
B4	Traballar de forma autónoma con iniciativa.	
B6	Organizar e planificar o traballo.	
B7	Comunicarse de maneira efectiva nunha contorna de traballo.	
B8	Sintetizar a información.	
B11	Debater en público.	

Learning outcomes			
Learning outcomes		Study programme	
	competences		ces
-They purchased the sufficient capacity of synthesis to be able to analyse the relation between the structure and the function	A1	B1	
of an organo, from a perspective integradora of the knowledges purchased. Also, to recognise the influence of the ambente in		B3	
the adaptations estructurais that suffer the vegetables and animal the the half, and can apply the theoretical knowledges		B6	
purchased to the experimental practice.		B8	



-At the end of course expects that the students know the basic anatomical structure of the distinct organs of vegetables and	A1	B1
upper animals and recognise the importance of the levels of organisation in his constitution	A5	B3
	A11	B4
	A29	B8
Know and they handle the sources of available information (basic and complementary bibliography), the own methodologies of	A1	B1
the matter and employ internet for the preparation of the discipline.	A4	B3
	A30	B4
	A31	B6
		B8
- They identify, differentiate and they describe, employing the own terminology of the matter, the components and the structure	A1	B1
of the organs, devices and systems of the body of the vegetables and upper animals, using for this the microscopic	A5	B3
observation.	A11	B4
- They develop a capacity of analise and interpretation of the images observed in the practical classes in microscopic	A30	B6
preparations of organos, and of the images obtained in distinct web pages of Internet and worked in the sesions of groups	A31	B7
reduced.		B8
		B11

	Contents
Торіс	Sub-topic
Theory syllabus of Vegetal microscopic organography	Theory syllabus of Vegetal microscopic organography
Topic 1 The root: Generalities. Histogénesis.	- Primary structure: Internal organization of the root. Origin and development of the lateral roots.
	- Secondary structure. Anomalous secondary growth.
Topic 2 The stem: General characteristics. Origin.	 Primary structure: Internal organization of the stem in angiosperms and gymnosperms. Differentiation and distribution of the vascular system. Typical secondary structure (dicot-and gymnosperms). Secondary growth in monocotiledonean plants. Anomalous secondary growth.
Topic 3 The leaf: Generalities. Origin and development of the vegetative leaf.	- Organization of the leaves of angiosperms and gymnosperms: Epidermis, mesophill and vascular system. Structure of the petiole. Leaf abscisión.
	-Structural adaptations of the leaves to the environment.
Topic 4The flower. General organization. Origin. Histological structure: sepals and petals. Vascularization.	-Male flower. Structure and histology of the androecium. Microsporogénesis in angiosperms. Polinic tube
	 Female flower. Structure and histology of the gynoecium. Placentatión. Macrosporogenesis. Fertilization
Theory syllabus of Animal microscopic organography	Theory syllabus of Animal microscopic organography



	- Cutaneous annexes: Sebaceous and sweat skin glands. Structure of skin
Topic 5 Integumentary System (Mammalian skin). Structural characters. Epidermis. Dermis. Hypodermis. Irrigation.	appendages: hair follicles and nails.
Innervatión.	
Topic 6 Digestive tract of mammal. Generalities and	- Part I. Oral cavity: Lips, palate, tongue. Pharynx. Histological organization of the gut
organization.	wall. Oesophagus. Stomach: Structure and cell types of the gastric glands (cardial, fundic and pyloric)
	- Part II. Small intestine: General structure. Villi and crypts. Regional specializations (duodenum, yeyuno and ileon). Large intestine: Structure of the colon, appendix,
	rectum and anus).
	- Part I. Structure of the upper conducting airway : Nose, nasopharinx, larynx, trachea
Topic 7 Mammal respiratory system. Anatomical organization.	and bronchial tree (until terminal bronchioles)
	-Part II. Structure of the respiratory portion: respiratory bronchioles, alveolar conducts,
	alveolar sacs and alveoli. Alveolar septum and the alveolus - capillary complex. Lung: irrigation and inervación.
	- Part I. The renal corpuscle and the filtration barrier. Tubular system: Proximal tubule.
Topic 8Mammal excretory system. Kidney anatomical	Loop of Henle. Distal tubule. Structural features of the juxtaglomerular complex.
organization. Structure of the nephron: parts and histological constitution.	Mesangium.
	- Part II. The renal interstice. Collecting tubules and collecting ducts. Urinary tract:
	renal pelvis, ureter, bladder and urethra. Innervation and irrigation.
	- Part I. Excretory genital ducts: Structure of the straight tubules, rete testis, efferent
Topic 9 Male reproductive system of mammals. Testicular	ducts, epididymis, vas deferent, ejaculatory duct.
histology: Microscopic structure of the seminiferous tubules	- Part II. Accesory sex glands: Structure of the seminal vesicles, prostate, and
and interstitial tissue.	bulbouretral glands . Structure of the penis and erectil tissue.
	- Part I. The genital tract: Oviducts structure, uterus and vagina. Changes in the
Topic 10Female reproductive system. Microscopic structure	uterine mucosa
of the ovary. Development of the ovarian follicles. Corpus luteum. Corpus albicans and interstitial tissue.	- Partell. The external genitalia organs (vestibule, clitoris and vulva).
	- Part I. Histogenesis and general organization of the central nervous system of
	vertebrates. Alar and basal plates. Gray and white matter. The vesicles and
Topic 11 The central nervous system	encephalic ventricles. Meninges. Microscopic structure of the choroid plexus: The cerebrospinal fluid
	- Part II. Study of the cerebellar cortex and spinal cord.



	- Part I. Endocrine glands. Hipophysis: Histogenesis. Organization and cell types of
	the adenohipophysis. Structure of the neurohypophysis (neurosecretory systems).
Topic 12 The endocrine system of mammals. Introduction.	Pineal gland (Histogenesis and organization).
	- Part II. Suprarrenales glands (histogenesis and estructural organización of the cortex
	and medulla). Thyroid and parathyroid glands.
	- Part II.
	- Observation and identification of plant tissues and organs in microscopic
-Practical class (laboratory) Syllabus	preparations of roots, stems, leaves and flowers. Interpretation of micrographs and layouts
	- Observation, identification and interpretation of the different organs in animals and microscopic preparations micrographs
Microscopic Vexetal Organography practices:	- The root. Study of the roots adaptations to the environment: Air (orchid), water
	(Elodea) and soils plants (lilac). Study of the cross section of the pine young secondary root.
	- Study of the stem secondary structure: Observation of the cross section of a
	secondary dicotyledon stem (grape stem). Cross section of Cucurbit secondary stem.
	- The leaf. Study of leaf adaptations in cross sections of hydrophytes, xerophytes and
	- Study of the Central Nervous System: Microscopic structure of neural cortex of the
Microscopic Animal Organography practices:	cerebellum.
	- The endocrine system: Study of the Hypophysis gland. The adrenal glands. The thyroid gland.
	- Digestive system: Microscopic study of the of the stomach wall at the fundus level .
	Study of the small intestine at the level of the duodenum jejunum and ileum Wall
	specializations . ? Observation of the Large intestine (colon).
	- Urinary system: Microscopic study of the kidney structure (córtex and medulla levels)
	- Male Reproductive System: Study of the seminiferous epithelium structure in transverse sections of the seminiferous tubules.

	Planning	g		
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	



Directed discussion	A1 A5 A11 A29 B1 B3	7	17.5	24.5
	B4 B6 B7 B8 B11			
Laboratory practice	A1 A4 A5 A11 A30	15	21	36
	A31 B3 B4 B7 B8			
Guest lecture / keynote speech	B8	28	56	84
Introductory activities	B8	1	0	1
Objective test	A1 B8	4	0	4
Personalized attention		0.5	0	0.5
(*)The information in the planning table is	for quidance only and does not tal	ke into account the	heterogeneity of the st	udents

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

	Methodologies
Methodologies	Description
Directed discussion	-7 compulsory sessions of guided discussion, of 50 minutes of length each one, will be realise. They are addressed to 8
	reduced groups of students and are supervised by the professor. In them diverse activities will realise, all of them computable
	inside the evaluation system:
	-A) Clarificación of the doubts presented by the student on the contents of the subjet explained in the masterclasses.
	-B) During each week of the reduced groups sessions, the students will answer a questionnaire, whose subject matter is
	related to the contents of the subject previously addressed in the corresponding master session and with the contents of the
	subjet covered in each session of small groups, that will have worked using the recommended bibliography . The
	questionnaires are available to the student in the Moodle platform, where they will be answered.
	-C) Interpretation of microscopic images of animal and vegetal organs obtained in several web pages of special
	histology/organography, where they will treat to identify different appearances of the anatomy of the organs studied .
	- These sessions allow direct knowledge of the degree of assimilation of the student. They shall be scattered among the
	keynote lectures and always relate to the content discussed in them, explained above. If given the circumstances that preven
	attendance at sessions of guided discussion, these must be notified before the teacher, and must be justified documentary.
	The calendar devoted to this activity will indicate to beginning of the course.
Laboratory practice	- They will realise 15 compulsory hours of practices of laboratory, distributed in a session of 1 hour and 7 sessions of 2 hours
	each one. They will be organised 7 groups, in batches of morning (3) and afternoon (4). The calendar of the practices and the
	schedule will be published during the course. In them the teacher will expose the aims of each practice, will orient the
	observations of the student, and will clear them the doubts on the identity of the structures observed
	- They will observe the structure of several organs in preparations of animal and vegetables to optical microscope. In them
	they will identify several cellular types and tissues in order to know the structure of the organs object of study. For this, they
	will have microscopes and access to atlas, texts books and to specific pages of internet.
	- In occasions, will resolve a questionnaire related with their observations.
	- Also they will tackle theoretical appearances concernientes to the experimental methodology that employs in the asignatura
	so that the student purchase the own manual skills of the anatomical techniques.
	- In case to give circumstances that prevent the attendance to the practices, these must be notified prior to the professor, and
	will have to be properly justified documentary.
Guest lecture /	Along the cuatrimestre will give 28 lessons magistrales compulsory of 50 minutes of length to a wide group of students, at a
keynote speech	rate of 2 sessions by week, in groups of morning and afternoon. The lessons will treat on the basic theoretical contents of the
	program, that the professor will explain helping of drawings, images and of audiovisual means (presentations with computer).
	Also they will resolve punctual questions posed by the students. For an elder aprovechamiento of these sessions, advises
	that the student review the knowledges of Vegetal and Animal Histology purchased in the previous course and read previous
	the fundamental appearances of the lessons in the bibliographic texts recommended



Introductory activities	It will devote a first session to the presentation of the subjet where will expose the distinct sections of the educational guide
	(structuring, competitions, program-contents, planning, methodology, evaluation, bibliographic resources, etc.) and where the
	student will be able to pose any doubt or relative question to the same. Likewise it will put to disposal of the student a
	cronograma detailed of the activities to develop during the cuatrimestre and a complete version of the educational guide in the
	platform Moodle.
Objective test	It will realise a final examination on the theoretical and practical contents of the subjet, in the official date fixed by the Board of
	Faculty.
	- The students that have not surpassed the official examination of the Announcement of May, or have not presented to the
	same will be able to examine in the Announcement of Julio.

	Personalized attention
Methodologies	Description
Introductory activities	The student/to can consult his punctual doubts during the magistral sessions , and more at length, in the sessions of directe
Objective test	discussion. Besides, it will be able to resolve any doubt related with the matter, or with his activities, assisting to the
Guest lecture /	personalised tutorías that will develop during the course, in a schedule that will specify the professor to the beginning of the
keynote speech	cuatrimestre. Given the purpose of these tutorías (know and resolve the difficulties that the student finds in the asignatura),
Laboratory practice	will procure that the schedule was the most convenient for both, concertándolo previously the time that both estimate
Directed discussion	necessary.

		Assessment	
Methodologies	Competencies	Description	Qualification



Objective test	A1 B8		64
		- The assistance to all the practical classes and sessions of groups reduced is	
		indispensable to surpass the asignatura.	
		- In this asignatura will not realise partial examinations.	
		- In the announcement of May, The final examination (theory and practical) supposes	
		80% of the final qualification. Of this percentage 80% corresponds to the theoretical	
		examination and 20% to the practical examination.	
		- The evaluation of the theoretical part of the matter, comes determined by the	
		theoretical examination, that will consist of short questions and of questions type test	
		of multiple election on the contents of the masterclasses and sessions of tutoría of	
		groups reduced. Also they will be able to include questions headed to the	
		interpretation of theoretical figures. If the examination is of type test, only will describe	
		the replies realised exclusively in the staff attaches to the examination.	
		- The evaluation of the contents developed during the practical classes of laboratory,	
		will carry out by means of an exámen practical in which it will value the identification	
		and description of microscopic preparations, equal or different of the studied in the	
		practical classes, and that they will be answered exclusively in the space reserved for	
		this.	
		- The students that have not surpassed the official examination of the Announcement	
		of May, or have not presented to the same will be able to examine in the	
		Announcement of Julio.	
		_ With the objective proof, the student will show the degree of knowledge and skills	
		purchased along the course, asi like the capacity of synthesis and abstraction	
		developed.	
aboratory practice	A1 A4 A5 A11 A30	- It values the assistance, participation, initiative, attention, behaviour and opinions	20
	A31 B3 B4 B7 B8	developed in the activities realised during the practical classes (location, identification	
		and interpretation of microscopic preparations of animal and vegetal organs).	
Directed discussion	A1 A5 A11 A29 B1 B3	- It values the assistance, participation, attention and behaviour of the student in all	16
	B4 B6 B7 B8 B11	the activities developed during the sessions of directed discussion (questionnaires,	
		interpretation of microscopic images of organs, exhibition of doubts).	

Assessment comments



The evaluation of the matter will base in an examination of theoretical content, an examination of practical content, and a continuous evaluation of all the activities developed during the sessions of the groups reduced.

The assistance to the seminars of reduced groups and to the practical classes is indispensable condition to be evaluated. It is necessary the assistance and participation in, at least, the 80 % of each one of the face-to-face activities of the matter.

In the announcement of May will realise a theoretical final examination-practical for the evaluation of the learning All the formative activities will have a punctuation comprised between 0 and 10 points. To calculate the final note will take into account the following criteria:

1. Evaluation of the theoretical learning. The note obtained in this section will suppose the 40 % of the final note.2. Evaluation of the practical learning. The note obtained in this section will suppose the 20 % of the final note.3. Evaluation of the assistance, participation and delivery of the activities posed by the professor during all the activities of the matter. The note obtained in this section will suppose 40% of the final note.

**To surpass the asignatura in the announcement of May, the global sum of the mentioned sections will have to be comprised between 5 and 10 points, being necessary to obtain at least 4 points in each one of the three sections. If it did not fulfil this requirement the final qualification would correspond with the one of the section that have lower value.

The students that do not approve the asignatura in the announcement of May, or have not presented to the same, will be able to try it again in the proof of Julio. In this case, the evaluation will consist:

1. In a proof written on the contents so many theorists of the asignatura as of the sessions of discussion directed realised by the students. The note obtained in this section (comprised between 0 and 10 points) will suppose the 60 % of the final note. 2. In a practical proof of identical nature to the mentioned previously. The note obtained in this section (comprised between 0 and 10 points) will suppose a 40 % of the final note.

**To surpass the asignatura in the announcement of Julio, the global sum of the mentioned sections will have to be comprised between 5 and 10 points, being necessary to obtain at least 4 points in each one of the two sections. If it did not fulfil this requirement the final qualification would correspond with the one of the section that have lower value.

The qualification of NO PRESENTED shall apply only if the student / not do any of the objective tests during the semester or final exam both the opportunity May as July .

	Sources of information
Basic	Bibliografía básica Organografía Vegetal: PANIAGUA, R.; NISTAL, M.; SESMA, P.; ÁLVAREZ-URÍA, M.; ANADÓN,
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	McGraw Hill Interamericana. 4ª Edición. (Catalogado en la Biblioteca de la Facultad con la signatura BC-108)
	Organografía Animal: Ross, M. H; Wojciech, P. (2012). Histología: Texto y atlas color con Biología Celular y
	Molecular. Buenos Aires: Médica Panamericana. 6ª ed. (Catalogado en la Biblioteca de la Facultadc on la signatura
	BC-381).Welsch, U. (2008). Histología / Sobotta ; Welsch . Ed. Médica Panamericana. 2ª Edición. (Catalogado en la
	Biblioteca de la Facultad con la signatura BC-551a-h) . GENESER F. (2000). Histología sobre bases biomoleculares
	Ed. Médica Panamericana. 3ª Edición



Complementary	Bibliografía complementaria BOWES, BG; MAUSETH, JD. (2008). ?Plant structure. A colour guide". Ed. Manson
	publishing, Londres. 2ª edición.CUTLER, D.F,; BOTHA,T; STEVENSON, D.WM (2008). ?Plant anatomy. An applied
	approach? Ed. Blackwell Publishing. (Catalogado en la Bibliotecade la Facultad con la signatura BC-545-a y 545-b).
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	"Anatomía de las plantas con semillas". Buenos aires: Editorial Hemisferio SurEVERT, R.F. (2008). Esau Anatomía
	vegetal. Meristemas, células y tejidos de las plantas: su estructura, función y desarrollo. Ed. Omega. 3ª Edición
	.FAHN, A. (1990). "Plant Anatomy". Pergamon Press: Oxford.FAWCETT D, JENSH, RP. (1999). Compendio de
	Histología. Interamericana de España/McGraw-Hill, Madrid. (Libro catalogado en la Biblioteca de la Facultadcon la
	signatura BC-380). GÓMEZ SEGADE, P. (2012). ?Atlas de Histología Vegetal". Lulu: Madrid.JUNQUEIRA LC,
	CARNEIRO J. (2006)." Histología Básica. Texto y atlas". 6ªed. Masson: Barcelona. (Libro catalogado en la Biblioteca
	de la Facultad con la signatura BC-185; BC-186; BC-187). KIERSZENBAUM, A.L.; TRESS, LL (2011). ?Histología y
	Biología Celular. Introducción a la AnatomíaPatológica?Ed. Elsevier.Mosby.3ªedRUDALL, P. (2007). ?Anatomy of
	flowering plants: an introduction to structure and development ?/ Paula J. Rudall. Cambrigde:Cambridge University
	Press. 3rd ed. (Catalogado en la Biblioteca de la Facultad con la signatura BC-547). Bibliografía para prácticas
	BOWES, B.G.; Mauseth, J.D. (2008). Plant structure: a colour guide. 2nd ed.Manson Publishing: London BOYA
	VEGUE, J. (2011). Atlas de histología y Organografía microscópica. 3ª ed. Editorial Médica Panamericana: Madriid.
	(Catalogado en la Bibliotecade la Facultad con la signatura BC-420) Gartner, L. P. (2011). Atlas en color de histología
	/ Leslie P.Gartner, James L. Hiatt. 5ªed. Madrid: Panamericana. (Catalogado en la Biblioteca de la Facultad con la
	signatura BC-310). GENESER, F. (1995).?Atlas color de Histología?. Editorial Médica Panamericana.(Catalogado en
	la Bibliotecade la Facultad con la signatura BC-468) KÜHNEL, W. (2005). Atlas color de Citología e Histología. 11ª ed.
	Editorial Médica Panamericana: Madrid (Catalogado en la Biblioteca de la Facultad con la signatura BC-493). ROSS,
	MH; PAWLINA, W; BARNASH, T.A. (2012). "Atlas de Histología descriptiva". ed. Editorial Médica Panamericana:
	Buenos Aires. WHEATER, P. R. (1987). Histología funcional : texto y atlas en color/ Raul R. Wheather, H. George
	Burkitt, Víctor G. Daniels. Barcelona: Jims, D.L. 2ªed. Rev. (Catalogado en la Bibliotecade la Facultad con la signatura
	BC-14) YOUNG, B. (2000, 2010 imp). ?Wheater's histología funcional texto y atlas en color?/ Barbara Young, John W.
	Heath. Madrid: Elsevier Science. (Catalogado en la Biblioteca de la Facultad con la signatura BC-122). Recursos
	webGeneraleshttp://books.google.es/http://www.ncbi.nlm.nih.gov/pubmedOrganografía
	Vegetalhttp://www.emc.maricopa.edu/faculty/farabee/biobk/BioBookPLANTANAT.htmlhttp://www.emc.maricopa.edu/fa
	culty/farabee/biobk/BioBookPLANTANATII.htmlhttp://www.biologia.edu.ar/botanica/index.htmlhttp://images.botany.org/
	http://www.dipbot.unict.it/tavole_es/indice.htmlhttp://atlasveg.ib.usp.br/http://mazinger.sisib.uchile.cl/repositorio/ww/cie
	ncias_agronomicas/anatomia-vegetal/index.html.http://www.sbs.utexas.edu/mauseth/weblab/
	http://www.ujaen.es/investiga/atlas/Organografía
	Animalhttp://www.kumc.edu/instruction/medicine/anatomy/histoweb/http://www.meddean.luc.edu/lumen/MedEd/Histo/f
	rames/histo_frames.htmlhttp://www.udel.edu/Biology/Wags/histopage/histopage.htmhttp://escuela.med.puc.cl/publ/His
	tologia/Indice.html
	http://acd.ufrj.br/labhac/fotoslistagem.htmhttp://www.bu.edu/histology/m/i_main00.htmhttps://histo.life.illinois.edu/histo/
	atlas/index.phphttp://webs.uvigo.es/mmegias/inicio.htmlhttp://virtual.ujaen.es/atlas/

Recommendations
Subjects that it is recommended to have taken before
Biology: Basic Levels of Organisation of Life I (Cells)/610G02007
Biology: Basic Levels of Organisation of Life II (Tissues)/610G02008
Introduction to Botany: General Botany/610G02023
Subjects that are recommended to be taken simultaneously
Plant Physiology II/610G02028
Zoology II/610G02032
Subjects that continue the syllabus
Developmental Biology/610G02010
Animal Physiology I/610G02035
Animal Physiology II/610G02036



Other comments

It is recommend: The assistance to the masterclasses, sessions of directed discussion and practical classes of laboratory, and the active participation in this activities along the course, to ensure that they comprise; the terms and concepts to which does reference. The not presential work of the student preparing previously the theoretical and practical class, helping itself with the recommended bibliography and of the web resources on that they will put to his disposition. The weekly review of the matter given to understand the information obtained in class. Clarify with the teacher the possible doubts in the individualized tutorships or in group, which will facilitate the understanding of the matter and will help to the preparation of the proposed activities. It is important to devoted special attention to the observation of photos and images in books, atlases and in practice microscopical preparations; to try to recognize in them what is described in the text or in the theoretical class. It advises to cover the foot of the photo and try to make a self diagnostic of the image that is observed (autoevaluation). The periodic visit to the web page of the subject (Moodle platfform), where links and material used in lectures will be inserted.

(*)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.