

UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: PH, Type: CO			iY III	ECTS	Code: 14340 ECTS credits: 6					
		DERGRADUATE DEGREI			Academic year: 2022-23					
•		ULTY OF PHARMACY		00117		Group(s): 10				
Year: 5						Duration: First semester				
Main language: Spa	anish					Second la	nguage: English			
Use of additional languages:	English Friendly: Y									
Web site: Bilingual: N										
Lecturer: JOAQUIN GON	IZALE	EZ FUENTES - Group(s): 1	0							
Building/Office Department				Phone number		Email	Office hours			
Facultad de Farmacia AB. Despecho 3.8		CIENCIAS MÉDICAS		2236		joaquin.gfuentes@uclm.es				
Lecturer: MANUEL JESUS SANTANDER ORTEGA - Group(s): 10										
Building/Office	Department		Phone number Emai		Ema	il	Office hours			
Facultad Farmacia. 3.1	CIEN	CIENCIAS MÉDICAS 2239			mar	nuel.santander@uclm.es				

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 Proficiency in a second foreign language at level B1 of the Common European Framework of Reference for Languages. B01 B02 Knowledge of Information and Communication Technologies (ICT). B03 A correct oral and written communication B04 Ethical commitment and professional deontology. B05 Ability to develop those learning skills necessary to undertake further studies. EFT01 Using statistical analysis applied to pharmaceutical sciences EFT02 Apply both computational and data processing techniques, for getting information about physical, chemical and biological data EFT05 Using statistical analysis applied to pharmaceutical sciences Design, optimize and elaborate the pharmaceutical forms guaranteeing their quality, including the formulation and quality control of EFT06 medicines, the development of master formulas and officinal preparations Able to apply the quality control process to medical devices, dermopharmaceutical and cosmetic products and package materials. EFT07 Demonstrate knowlege of the physicochemical and biopharmaceutical properties of drugs and excipients, as well as the possible EFT10 interaction between them Identify, design, obtain, analyze, control and produce drugs and medicines, as well as other products and raw materials of sanitary G01 interest for human or veterinary use. G04 Design, prepare, supply and dispense medicines and other products of health interest. Develop communication and information skills, both oral and written, to deal with patients and users of the centre where they carry out G13 their professional activity. Promote the capacity to work and collaborate with multidisciplinary teams and those related to other health professionals. Recognise own limitations and the need to maintain and update professional competence, with particular emphasis on self-learning of G15 new knowledge based on scientific evidence. T01 Critical thinking skills based on the application of the scientific method T02 Ability to manage quality scientific information, bibliography, specialized databases and resources accessible through the Internet. T03 Handling of basic and specific software for the treatment of information and experimental results. Motivation for quality, safety at work and awareness of environmental issues, with knowledge of the internationally recognised systems T04 for the correct management of these aspects. T05 Organizational, planning and implementation skills. T06 Ability to address human resources decision-making and management. T07 Ability to work as a team and, where appropriate, exercise leadership functions, encouraging entrepreneurship. T08 Develop interpersonal skills and the ability to function in an international and multicultural context.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

To know the controls in raw materials, semi-finished and finished products, as well as the validation of processes in order to ensure the quality of the medicines

manufactured.

Understanding the checks necessary to ensure the quality of pharmaceutics skin products, sanitary products, and cosmetics.

Know the vehiculizacion nanoparticles as forms of drugs.

Ability to work under standards of good laboratory practice (GLP).

Ability to design a pharmaceutical laboratory in response to their facilities and processes necessary to ensure the quality of the products manufactured. To know and to develop good manufacturing practiques (GMP) for the different activities to develop in Pharmaceutical Industry, pharmacy and hospital Pharmacy Service.

Know and understand the fundamentals of the Pharmaceutical Technology

Develop drugs regarding its qualitative and quantitative composition and select the optimal technological processes to be used in its manufacture.

6. Units / C	ontents		
Unit 1:			
Unit 1.1			
Unit 1.2	2		
Unit 1.3	3		
Unit 2:			
Unit 2.1	l		
Unit 2.2	2		
Unit 2.3	3		
Unit 2.4	l i i i i i i i i i i i i i i i i i i i		
Unit 2.	5		
Unit 3:			
Unit 3.1	l		
Unit 3.2			
Unit 4:			
Unit 4.1	l		
Unit 4.2			
Unit 4.3			
Unit 4.4			
Unit 4.			
Unit 5:			
Unit 5.1			
Unit 6:			
Unit 6.1			

7. Activities, Units/Modules and M	Methodology							
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description	
Class Attendance (theory) [ON- SITE]	Combination of methods	B01 B02 B03 B05 EFT01 EFT02 EFT05 EFT06 EFT07 EFT10 G01 G04 G13 G15 T01 T02 T03 T04 T05 T06 T07 T08	1.44	36	Y	N		
Class Attendance (practical) [ON- SITE]	Practical or hands-on activities	B01 B02 B03 B05 EFT01 EFT02 EFT05 EFT06 EFT07 EFT10 G01 G04 G13 G15 T01 T02 T03 T04 T05 T06 T07 T08	0.8	20	Y	Y		
Study and Exam Preparation [OFF- SITE]	Self-study	B01 B02 B03 B05 EFT01 EFT02 EFT05 EFT06 EFT07 EFT10 G01 G04 G13 G15 T01 T02 T03 T04 T05 T06 T07 T08	3.6	90	Y	N		
Formative Assessment [ON-SITE]	Assessment tests	B01 B02 B03 B04 B05 EFT01 EFT02 EFT05 EFT06 EFT07 EFT10 G01 G04 G13 G15 T01 T02 T03 T04 T05 T06 T07 T08	0.16	4	Y	Y		
	6	150						
Total credits of in-class work: 2.4					Total class time hours: 60			
Total credits of out of class work: 3.6							Total hours of out of class work: 90	

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				
Test	70.00%	70.00%					
Laboratory sessions	20.00%	20.00%					

Assessment of active participation	Total: 10.96%.00%	10.98%.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
Class Attendance (theory) [PRESENCIAL][Combination of methods]	36
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	20
Study and Exam Preparation [AUTÓNOMA][Self-study]	90
Formative Assessment [PRESENCIAL][Assessment tests]	4
Global activity	
Activities	hours
Class Attendance (theory) [PRESENCIAL][Combination of methods]	36
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	20
Study and Exam Preparation [AUTÓNOMA][Self-study]	90
Formative Assessment [PRESENCIAL][Assessment tests]	4
	Total horas: 150

Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Benitez Palomeque, E.	Good Manufactering Practices. La gestión técnica en la fabricación de medicamentos. Consejos prácticos.	Ed. Centro de Estudios Superiores de la Industria Farmacéutica	Madrid	84-921046-0-0	1996	
Cole, G.	Pharmaceutical production facilities: design and applications. 2ª edición.			0-7484-0438-4	1998	
S. Cox Gad	Pharmaceutical Manufacturing Handbook: Regulations and Quality	Wiley		978-0-470-25959-7	2008	
Salazar Macián, R.	Tecnología Farmacéutica Industrial, vol. I y II	Romargraf S.A.	Barcelona	84-931913-4-5	2003	
Salazar Macián, R.	Análisis y Control de Medicamentos	Romargraf S.A.	Barcelona	84-931913-7-X	2005	
Salazar Macián, R.	Cualificación y validación: elementos básicos de la calidad y productividad	Romargraf S.A.	Barcelona	978-84-931913-8-2	2007	
Salazar Macián, R.	Gestión de la Calidad en el Desarrollo y Fabricación de Medicamentos, vol. l y ll	Romargraf S.A.	Barcelona	84-931913-0-2	2001	
Y. Qiu	Developing Solid Oral Dosage Forms	Elsevier		978-0-444-53242-8	2013	
del Arco Ortiz de Zarate, J.	Formulación magistral de medicamentos.	Colegio Oficial de Farmacéuticos de Vizcaya.		84-606-1557-X	1994	
	Formulario Nacional	Ministerio de Sanidad y Consumo		978-84-7978-813-1	2007	
	Formulario Nacional , 2ª edición http://biblioteca.uclm.es/ Medscape DrugInfo				2015	
	http://search.medscape.com/refere	ence-search				
	Pharmaceutical manufacturing handbook : production and proce	Wiley- Interscience,		978-0-470-25958-0	2008	
	Portal farmacéutico. Bases de datos del CGCOF (BOT)					
	http://www.portalfarma.com/Pagina Real Farmacopea Española. 5ª	Ministerio de Sanidad,			2015	
	Edición.	Servicios Sociales e Igualdad. Madrid	I		2015	
	http://biblioteca.uclm.es/					
	Tratado de Tecnología Farmacéutica. Volumen I: Sistemas farmacéuticos Tratado de Tecnología	Sintesis		9788490770986	2016	

Farmacéutica. Volumen II: Operaciones básicas

Sintesis

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