Goi Eskola Politeknikoa Escuela Politécnica

Superior								
	[MM3101]	FUNDAMENTAL	S OF N	IEDICINE AN	ID BIOMA	TERIAL	S	
		GENE	RAL INF	ORMATION				
		REE IN BIOMEDICAL		Subject	?			
Semester				Mention / Field of				
	∠ COMPL. TRAIN	Course 0		specialisation				
Plan		Modality Face	-to-face	Language	CASTELLANC)		
Credits		Hours/week 1.39		• •	25 class hours		ass hours	= <u>125 total</u>
					<u>hours</u>			
			PROFES	SORS				
	DE UNANUE, M							
BURUAGA I	LAMARAIN, LOF							
	Quiti							
Subjects (No specific previous subjects required)			Knowledge (No previous knowledge required)					
(110	speeme previou			RESULTS		Swiedge requi	iicu)	
LEARNING RESU	I TS			NESOE15		кс ѕк	AB	ECTS
G_R062 - To know	the structure and	d function of animal cells,		heir life cycle, the m	echanisms	x		4,24
		ions in relation to human p f biomaterials for correct u		edical Engineering n	rohlems	x		0,76
	the properties of				10DICITI3	~		
KC: Knowledge or Cont	tent / SK: Skills / AB	Abilities					Total:	5
			RY LEAF	RNING RESULT	S			
foster more mea Carrying out exe Tutoring sessior	and flexible deve aningful learning ercises and solvi ns and monitorin	elopment of concepts and ng problems individually a g of training activities		ams	8 h.	NCH 20 h. 14 h.	7H 20 F 14 F 8 h.	I.
EVALUATION SYSTEM W MAKE-UP MECHANISMS Reports on the completion of exercises, case studies, 100% Reports on the completion of exercises, case studies, computer							mputer	
	projects, challen s: 8 h. s hours: 34 h.	exercises, laboratory ges and problems		exercises, simulat projects, challenge			ercises, ter	m
RMM002 Descr and know the dif	ribe the anatom	y and general physiolog s that constitute these s	gy of the di ystems	fferent APPARATU	IS of the huma	an body, beir	ng able to	identify
LEARNING AC	TIVITIES				СН	NCH	тн	
Personal study a foster more mea		elopment of concepts and	subjects us	ing active dynamics	, to	32 h.	32 h	l.
		ng problems individually a	and/or in tea	ams		20 h.	20 h	
Tutoring sessior	ns and monitorin	g of training activities			12 h.		12 h	I.
EVALUATION S	SYSTEM		W	MAKE-UP MECH				
computer exerci	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems100%Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems							

CH - Class hours: 12 h. NCH - Non-class hours: 52 h. TH - Total hours: 64 h.

EARNING ACTIVITIES	NCH	тн		
Personal study and flexible development of concepts a foster more meaningful learning	and subjects u	ising active dynamics, to	10 h.	10 h.
Futoring sessions and monitoring of training activities		5 h.		
Self-assessment tests in a context of autonomous and	4 h.	4 h.		
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS		
Individual written and/or oral tests or individual coding/programming tests	Individual written and/or oral tests or individual coding/programming tests			

CONTENTS

Cell biology

1.Cell structure.

2.Structure of the cytoplasm and organelles.

3.Cell nucleus.

4.Tissues.

Anatomy and Physiology

1.Generalities

2. Anatomy and physiology of the musculoskeletal system.

3.Anatomy and physiology of the heart

4.Nervous system

Biomaterials



•M1: Introduction to biomaterials

•M2: Polymeric biomaterials

•M3: Ceramic and metallic biomaterials

•M4: Other biomaterials

•M5: Characterization techniques

•M6: Applications

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning	resources

Technical articles Topic related web quires Moodle Platform Video projections Subject notes

Bibliography Biología fundamental y de la salud. Rafael Galán Romero y Rafael Torron teras Santiago Biología celular biomédica. Alfonso Calvo González

Anatomía y Fisiología. 8ª edición. Patton Thibodeau