

The "Carol Davila" University of Medicine and Pharmacy Bucharest The Quality Assurance Commission

SUBJECT OUTLINE

			SU	BJEC'	r OUTLI	NE			
1. Programme	of study	description	on				AND DELAT	DRILL CV	
THE PERSON AS A STATE OF A STATE	DOT DA	TITE A "		RSITY	OF MED	ICINE.	AND PHAI	RIVIACY	
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DISCIPLI	NE: RAI	DIATION	ONCO	LOG	Y AND M	EDICA	L IMAGIN	IG, COLȚEA	- 1
1.3. OT TATECA	T TTOCD	TT A T							
1 4 DOMAIN	OF STI	DV. Heal	thcare	– regul	lated sect	or withi	n the EU		
15 CYCLE O	F STUD	IES: BAC	CHELO	R'S D	EGREE				
1.6. PROGRA	MME O	F STUDY	: MED	ICINE					
2. Subject descr		4/= = ========	COWY CIL	hiect/e	lective su	piect wi	thin the dis	cipline: The org	ganism as
2.1. Name of the	he subjec	ct/comput	sury su an int	roduct	orv appro	ach bas	sed on syste	ms theory	
2.2. Location	or the dis	ordinator	·· Prof.	Dr. (ha	ab) Nicola	e Verga	ı, Asist. Uni	v. Drd. Olivian	Savencu
	/olinical	rotations	tenure	coord	linator:	LTT			
2.4. Practicals 2.5. Year of		2.6. Sem	ester	II	2.7.	ype of	f Written	2.8. Subject	optiona
	111	2.0. 501	legter		assess		exam	classification	1
study									
3. Total estim	ated time	e (hours/s	emeste	r of did	lactic acti	vity) — t	eaching mo	dule	
Number of	hours 1	per 2	Out	f whic	h:	2	Clinical ro	otation	_
week		' 2	cours			_		4 40	
	Total number of hours		Out of which:		h:	14	Clinical rotation		-
	from curriculum		course						Hours
Distribution	of allot	ted 1 co	urse (2	hours)/	/week				Hours
time					Y 4 Y	4 400			
Study from tex	ktbooks,	courses, b	ibliogr	aphy, a	ind stude	Aforms	and field st	ndv	
Study from tex Additional libi	rary stud	y, study o	on speci	alized	online pi	nortfo	lios and ess	avs	
Additional libi	inars / la	boratorio	es, assig	nment	s, reports	, por tio	nos and ess	at y is	
Tutoring									1 exam
Examinations									
Other activities	es	W (W							
Total hours of	individu	ial study		2	EMC cre	dits			
Number of cro	edit point	ts		4	ENIC CIC	uits			-
	(ll- a ve	annliaak	(مار						
4. Prerequisites (where applicable) Anatomy, physiology, biophysics, physiology, physiolo					iopathology				
	4.1. of curriculum 4.2. of competencies Anatomy, physiology, biophysics, physic								
4.2. of compe	tencies								
5. Requireme	nts (whe	re applica	ble)						
5.1. for deliv	ering the	course			Co	țea Clin	ical Hospita	l Amphitheatre	
5.2. for deliv	ering the	clinical	rotation	14 1					
CIAT AUX GUART									
6. Acquired s	pecific co	mpetenc	ies	1		1 0.1		student must he	able to:
Professional	comp	etencies	(expr	essed	At the en	d of the	course, the	student must be	ns theory.
through knowledge and skills) - Describes the fundamental notions of systems theory. - Understand the distinction between a living system an					system and				
7 -					- Underst	and the	onsullenon (JOHN COLL III III III S	- ,
					a non-liv	hasic p	rinciples of i	integrative phys	ology.
					- List the	vasic pi	merpies of	B-3-1	



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	- Understand what biomedical parameters are in an
	integrative context.
Transversal competencies (of role, of professional and personal development)	At the end of the course, the student should be able to:
processional same personal development)	- Gain a broader understanding of the body interpretation
	models offered by the current medical context.

7. Subject learning objectives (based on the scale of acquired specific competencies)

. Subject learning objectives (based on the scale of acquired specific competences)				
7.1. General learning objective	- Familiarizing the student with the importance of establishing clear			
	medical fundamentals, with the aim of reducing the clinical implications of			
	the problem of excessive use of reactive medicine, at the expense of			
	preventive medicine.			
7.2. Specific learning objectives	Accommodating the student with the elementary notions related to the interpretation of biomedical parameters, with the vision of early cultivating the path for the development of the patient's multidisciplinary approach skills.			

8. Content

8.1. Course	Teaching methods	Observations
Course 1 Introduction to systems theory	course	2 hours
Course 2 The limitations of reductionist medical thinking	course	2 hours
Course 3 From analytical thinking to integrative medical thinking	course	2 hours
Course 4 Integrative physiology	course	2 hours
Course 5 Interpretation models of biomedical parameters. Clinical case study.	course	2 hours
Course 6 Adaptability of the organism as a predictive tool.	course	2 hours
Course 7 Learning tools for the Medical student	course	2 hours

8.2. Clinical rotation	Teaching methods	Observations
CR 1 -	-	-
CR 2 -	-	-

Bibliography for course and clinical rotation

- Barabasi, A.L. (2014). Linked: How Everything is Connected to Everything Else and What It Means for Business, Science and Everyday Life. New York. Perseus Publishing.
- Bertalanffy, L.v. (1968). General System Theory. New York: George Brazziler.
- Böhm, D. (2007). Thought as a System. London: Routledge.
- Capra, F., & Luisi, P. (2016). The systems view of health. In The Systems View of Life: A Unifying Vision (pp. 322-338). Cambridge: Cambridge University Press.
- Checkland, P. (2004). Systems Thinking, Systems Practice Soft System Methodology A 30- year Retrospective. Chichester: John Wiley & Sons.
- Hammond, D. (2003). The Science of Synthesis: Exploring the Social Implications of General Systems Theory. Boulder: University Press of Colorado.



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- Hanaway, P. (2012). Systems Approaches: A Global and Historical Perspective on Integrative Medicine. Global Advances in Health and Medicine.
- Edmondson AC. The kinds of teams health care needs. Harv Bus Rev. December 16, 2015.
- Kauffman, S. A. (1993). The origins of order: Self-organization and selection. Oxford, UK: Oxford Univ. Press.
- Krohs, U., & Callebaut, W. (2007). Data without models merging with models without data. In F. C. Boogerd, F. J. Bruggeman, J.-H. S. Hofmeyr, & H. V. Westerhoff (Eds.), Systems biology: Philosophical foundations (pp. 181–213). Amsterdam: Elsevier.
- Noble, D. (2011). The aims of systems biology: Between molecules and organisms. Pharmacopsychiatry,

Runge, M. S., & Greganti, M. A. (2008). Netter's internal medicine. Philadelphia: Saunders Elsevier.

9. Corroboration of the subject content with the expectations of the representatives of the epistemic community, professional associations, and major employers in the field of the programme of study

The appropriate training of the student at the end of the course ensures a better understanding of the approach to the patient in a hospital context, and has as a result the education of future doctors regarding the efficient use of medical resources.

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course	Written exam	Written exam	100%
Clinical rotation			
Minimum performan	ce standard		
The minimum r	passing grade is 5 (five)	condition projections in Applications properties to the condition of the conditions	

Date of filing.

Signature of the coursepitenuredapy coordinator

Prof. Dr. (hab) Nicolae Lergatt

Asist. Univ. Dru. Onvian Savencu

Date of approval in the Council of the Department:

Signature of the Head of the Department