

UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE **GRIGORE T. POPA** IAȘI

Str. Universității nr.16, 700115, Iași, România www.umfiasi.ro

> SYLLABUS GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI

1. Programme Details

7.7.	"GRIGORE T. POPA" UNIVERSITY OF MEDICINE AND PHARMACY FROM IAȘI	
1.2.	FACULTY OF MEDICINE / DEPARTMENT: MORPHOFUNCTIONAL SCIENCES II	
1.3.	DISCIPLINE: ESSENTIAL NANOMEDICINE	
1.4.	FIELD OF STUDY: HEALTH	
1.5.	STUDY CYCLE: BACHELOR	
1.6.	PROGRAMME OF STUDY: Medicine English	. F
2 5	III) MEDICINE.	AN

2. Discipline Details

2. D	iscipline	Detai	ls		IMII ac					
2.1.	Name of the Discipline: ESSENTIAL NANOMEDICINE Y IASI									
2.2.	Teaching	Teaching staff in charge with lectures: Associate Professor Dr. LUPUŞORU RAOUL VASILE								
2.3.	Teaching staff in charge with seminar activities: -									
2.4. \	2.4. Year IV 2.5. Semester I 2.6. Type of Colloq 2.7. Optional evaluation uium Discipline regimen									

3. Overall Time Estimates (hours/semester of didactic activity)

3.1. Number of 2	Of which: 3.2.	2	3.3. seminar/	ERSITY OF	
hours per week	lectures	TIT G	IG laboratory ARMA	CYIASI	
3.4. Total hours in 14	Of which: 3.5.	14 N	3.6. seminar/	-	
the curriculum	lectures		laboratory		
Distribution of time RMACY IAS				Hours	
Study time using coursebook mater	ials, bibliography and	d notes		6	
Further study time in the libray, online and in the field					
Preparation time for seminars / lab	tfolios and essays	12			
Tutoring					
Examinations				4	
Other activities				1111	
3.7. Total hours of individual study	YOF	36			
3.8. Total hours / semester	GRIGORET. PO	PHARMACYIA	SI	50	
3.9. Number of credits	MEDICINE AND	KLIV.		2	



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4. Prerequisites (where applicable)

4.1. curriculum MEDICINE AND ME	Not applicable
4.2. competences	Not applicable

5. Conditions (where applicable)

5.1. for lecture delivery	Not applicable
5.2. for seminar / laboratory delivery	Not applicable

6. Specific Competences Acquired

Professional Competences (knowledge and skills)	- Knowledge and ability to use nanomaterials with various applications.				
Transversal Competences (roles, personal and professional development)	- Communication skills in nanomedical research The ability to analyze and manage the risks and benefits of nanoparticles.				

7. Objectives of the Discipline (related to the acquired competences)

7.1. General Obiective	- Assimilation of the nanomedical concepts.
7.2. Specific Obiectives	- Learning different types of nanoparticles and potential applications.
	- Understanding the risks and benefits of nanomedicine. MEDICIN

8. Contents

8. Contents 8.1. Lecture GRIGORET. POPA UNIVE MEDICINE AND PHARMAC	Teaching methods	Comments
Lecture 1 - Introduction to Nanoscience	Powerpoint/ oral presentation	2 hours
Lecture 2 - From Nanobiotechnology to Nanomedicine	Powerpoint/ oral presentation	2 hours
Lecture 3 - Risks and Benefits of Nanomedicine	Powerpoint/ oral presentation ORET. POPA	2 hours UNIVERSITY OF
Lecture 4 - Nanoparticles for Drug Delivery	Powerpoint/ oral PAND PRoperties presentation	2 hours
Lecture 5 - Nanosensors MACY IASI MEDICINE AND MEDICINE A	Powerpoint/ oral presentation	2 hours
Lecture 6 - Nano-Imaging	Powerpoint/ oral presentation	2 hours
Lecture 7 - Other Applications of Nanoparticles and Perspectives in Nanomedicine	Powerpoint/ oral presentation	2 hours

Bibliography

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- 1. Martins JP, Santos HA, Nanotechnology for Oral Drug Delivery: From Concept to Applications, Elsevier Inc., Academic Press, London, 2020.
- 2. Jain KK, The Handbook of Nanomedicine, Third Edition, Springer, New York, 2017.

3. Ge Y, Li S, Wang S, Moore R, Nanomedicine, Springer, New York, 2014.

8.2. Seminar / Laboratory	Teaching methods	Comments
Not applicable		
Bibliography		

9. Correlations between the contents of the discipline and the expectations of the epistemic community, of profesional associations and of employers in the field reason

Knowledge and skills are set as teaching objectives and specified as such in analytical programs reviewed annually. After analysis within the discipline, these are discussed and approved within the Curriculum

Bureau, in the sense of harmonization with other disciplines. Throughout this process, the correspondence between content and the expectations of the academic community, community representatives, professional associations and employers is systematically assessed, as far as possible. As a primary goal, the discipline aims to provide students with the optimal prerequisites for the next years of study in the Bachelor of Medicine program, in order to successfully hire, immediately after graduation, residency programs in Romania and other EU countries.

10. Evaluation

Type of activity	10.1. Evaluation criteria:	10.2. Methods of	10.3.		
		evaluation	Percentage of		
	TITI GRIG	CINE AND PHARMACY	final grade		
10.4. Lecture	Portfolio / projects / case	Colloquium	100%		
GORET. POPA UNIVERSITY	presentation / essays / summaries /				
GORE IND PHARMACY IAS	homework				
10.5. Seminar /	-				
Laboratory	-				
Minimum standard of performance: at least grade 5 to pass the discipline					

Date: May 7th, 2021

Name and Signature of Didactic Co-ordinator GRIGORET.POPA UN Prof. Manuela Ciocoiu, MD, PhD MEDICINE AND PHARMACIAN PHARMA

Name and Signature of Department Director Prof. Carmen Elena Cotrutz, MD, PhD



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