SUBJECT OUTLINE

1.	Programme	of study	description
		or study	acscription

1.1.	THE "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	THE FACULTY OF MEDICINE / THE CLINICAL DEPARTMENT 7 PEDIATRICS
1.3.	DISCIPLINE MEDICAL GENETICS

- **DOMAIN OF STUDY: Healthcare regulated sector within the EU**
- 1.5. CYCLE OF STUDIES: BACHELOR'S DEGREE
- 1.6. PROGRAMME OF STUDY: MEDICINE

Subject description

2	2.1.	Name of the subject/compulsory subject/elective subject within the discipline:
2	2.2.	Location of the discipline:
7	7 2	Course tonured goordington Prof Dr I aurentiu Camil Pobilton

Course tenured coordinator:Prof Dr Laurentiu Camil Bohiltea Lecturer dr Viorica Radoi

Practicals/clinical rotations tenured coordinator:

	2.T.	1 I acti	cais	/ Cillical i	otations tenure	a coor amat	<i>,</i>					
2	2.5.	Year	of		2.6. Semester II	2.7		Type	of	2.8.	Subject	
9	study					ass	ess	ment		classifi	ication	
4	5					Wı	itt	en exan	1	marks		
						Ess	sey					

3. Total estimated time (hours/semester of didactic activity) – teaching module

2. 20001 00011110000 011	(220	disponincolor of diducti		ty) teaching module	
Number of hours per	2	Out of which:	2	Clinical rotation	
week		course			
Total number of hours	14	Out of which:	2	Clinical rotation	
from curriculum	17	course			
Distribution of allotted					Hours
time					
Study from textbooks, courses, bibliography, and student notes					1
Additional library study, study on specialized online platforms and field study					1
Preparing seminars / laboratories, assignments, reports, portfolios and essays					2
Tutoring					1
Examinations					1
Other activities					
Total hours of individual study 6					
Number of credit points					

4. Prerequisites (where applicable)

4.1. of curriculum	
4.2. of competencies	

5. Requirements (where applicable)

5.1. for delivering the course	
5.2. for delivering the clinical rotation	

6. Acquired specific competencies

Professional competencies (expressed	Clinical Implementation of the results of the cutting edge
through knowledge and skills)	genetic testing techniques
Transversal competencies (of role, of	
professional and personal development)	



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

7.1. General learning objective	Learning the concepts of the Basic Medical Genetics		
7.2. Specific learning objectives	Learning the concepts of Personalized Medicine/ Precision Medicine		

8. Content

8.1. Course	Teaching methods	Observations
Course 1 Genetics in obstetrics -gynecology. Prenatal diagnosis of genetic diseases	Power Point presentation	
Course 2 Genetics in cardiology. Hereditary cardiomyopathies. Congenital heart malformations.	Power Point presentation	
Course 3 Genetics in oncology. Genetic predisposition to hereditary cancers. Pharmacogenetics in oncology	Power Point presentation	
Course 4 Genetics in neurology. Genetic diagnosis of epilepsies	Power Point presentation	
Course 5 Genetics in pediatrics. Inborn errors of metabolism Mitochondrial disorders.	Power Point presentation	
Course 6 Medical genetics vs genomic medicine.	Power Point presentation	
Course 7 The clinical utility of the genetic tests in current medical practice	Power Point presentation	

8.2. Clinical rotation	Teaching methods	Observations
CR 1		
CR 2		

Bibliography for course and clinical rotation

- 1. Oxford Desk Reference: Clinical Genetics and Genomics by Helen V. Firth; Jane A. Hurst
- 2. **Thompson and Thompson Genetics in Medicine** by Robert L. Nussbaum; Roderick R. McInnes; Huntington F. Willard
- 3. Medical Genetics by Lynn B. Jorde; John C. Carey; Michael J. Bamshad
- 4.https://www.orpha.net/consor/
- 5.https://rarediseases.org/



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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

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course		Written Exam	50%
		Essey	50%
Clinical rotation			

Minimum performance standard			
5			

Date of filing

Signature of the course tenured Signature of the seminar coordinator

tenured coordinator

Date of approval in the Council of the

Department:

Signature of the Head of the Department