SUBJECT OUTLINE

1. Programme of study description

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

2. Subject description

2.1.	Name of the subject/compulsory subject/elective subject within the discipline:Epigenetics in Medical Practice
2.2.	Location of the discipline:
2.3.	Course tenured coordinator: Prof.dr Laurentiu Camil Bohiltea Lecturer dr.Viorica Radoi
2.4.	Practicals/clinical rotations tenured coordinator:

2.5. Year of study 3		2.6. Semester II		2.7. Type of assessment Written exam Essay		2.8. Subject classification Marks	

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

Number of hours per week 2		Out of which: course 2		Clinical rotation	
Total number of hours from curriculum		Out of which: course		Clinical rotation	
Distribution of allotted time					Hours
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					1
Tutoring					1
Examinations					2
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 through knowledge and skills)	Clinical Implementation of the Epigenetics in Medical Practice

Transversal competencies (of role, of professional and personal development)	

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

7.1. General learning objective	Learning the concepts of the Basic Medical Epigenetics
7.2. Specific learning objectives	Learning the concepts of Personalized Medicine/ Precision Medicine based on epigenetic information

8. Content

8.1. Course	**Teaching methods**	**Observations**
Course 1 Epigenetic Modifications	Power Point presentation	
Course 2 Genetic testing/screening of epigenetic modifications	Power Point presentation	
Course 3 Epigenetics and personalized /genomic medicine I	Power Point presentation	
Course 4 Epigenetics and personalized/ genomic medicine II	Power Point presentation	

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

Bibliography for course and clinical rotation

1. The Role of High-Order Chromatin Organization in Gene Regulation
Alexey V. Pindyurin, Veniamin Fishman
2. Role of Genetics and Epigenetics in Major Structural Malformations
Duan Ma, Desheng Liang, Weinian Shou, Richard Q. Lu, Qihua Fu
3. Genetic and Epigenetic Insights Into the Developmental Origins of Health and Disease
Tesfaye B. Mersha, Fasil Tekola-Ayele, Daniel Enquobahrie

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 coordinator**	**Signature of the seminar tenured coordinator**

Date of approval in the Council of the Department:	**Signature of the Head of the Department**