



SUBJECT OUTLINE

1. Programme of study description

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	FACULTY OF MEDICINE / PRECLINICAL DEPARTMENT III- COMPLEMENTARY SCIENCES
1.3.	DISCIPLINE: PUBLIC HEALTH AND MANAGEMENT
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: PUBLIC HEALTH AND MANAGEMENT						
2.2.	Location of the discipline: NATIONAL INSTITUTE OF PUBLIC HEALTH						
2.3.	Course tenured coordinator: Lectureship leads: prof. univ. dr. Dana Galieta Mincă; prof. univ. dr. Florentina Ligia Furtunescu; conf. dr. Adriana Pistol; șef lucr. dr. Eugenia Claudia Bratu; șef lucr. dr. Antoaneta Drăgoescu; șef lucr. dr. Bogdan Cristian Pană; șef lucr. dr. Lăcrămioara Aurelia Brîndușe						
2.4.	Practicals/clinical rotations tenured coordinator: Practical and tutorials: șef lucr. dr. Eugenia Claudia Bratu; șef lucr. dr. Lăcrămioara Aurelia Brîndușe; șef lucr. dr. Antoaneta Drăgoescu; șef lucr. dr. Bogdan Cristian Pană; șef lucr. dr. Nicoleta Valentina Cioran; șef lucr. dr. Ileana Mardare; șef lucr. dr. Andreea Steriu						
2.5. Year of study	V	2.6. Semester	IX and X	2.7. Type of assessment	Examination	2.8. Subject classification	Compulsory DS

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

Number of hours per week	4	Out of which: course	2	Clinical rotation	2
Total number of hours from curriculum	56	Out of which: course	28	Clinical rotation	28
Distribution of allotted time					Hours
Study from textbooks, courses, bibliography, and student notes					
Additional library study, study on specialized online platforms and field study					
Preparing seminars / laboratories, assignments, reports, portfolios and essays					
Tutoring					
Examinations					
Other activities					
Total hours of individual study					
Number of credit points					4

4. Prerequisites (where applicable)

4.1. of curriculum	Basic research methodology, biostatistics, community health
4.2. of competencies	Digital competencies

5. Requirements (where applicable)

5.1. for delivering the course	Not applicable
5.2. for delivering the clinical rotation	Not applicable



6. Acquired specific competencies

Professional competencies (expressed through knowledge and skills)	<ul style="list-style-type: none">• To be able to use quantitative and qualitative data and information for the description, analysis, disease monitoring and surveillance in public health ; to be able to use the routine socio-demographic and health information sources for health status evaluation as well as health care services evaluation ;• To identify health problems and set priorities ; to plan health interventions aimed at disease prevention and control with the use of epidemiology and economics criteria ;• To plan and implement health promotion interventions and preventive strategies for communicable and non-communicable diseases, including health problems management in vulnerable groups ;• To become familiarised with the main clinical and economic evaluation methods including health technology assessment, with the aim of making an informed decision choice for the best treatment/intervention option.
Transversal competencies (of role, of professional and personal development)	<ul style="list-style-type: none">• To be able to holistically encompass all project management stages with application to health management;• To identify roles and responsibilities for efficient team work, to coordinate problem solving through a case study by also using adequate communication techniques;• To be able to use communication and educational tools (websites, applications, databases, etc.) in order to develop professionally at given standards

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

7.1. General learning objective	Establishes a specialist culture for the medical undergraduate with basic development of public health knowledge, practical abilities and skills
7.2. Specific learning objectives	<ol style="list-style-type: none">1. Development of knowledge, abilities and skills for health status evaluation using epidemiological and other public health research methodology ;2. Become familiarized with established instruments used in planning and delivery of health promotion intervention and disease prevention ; to be able to understand and manage problems arising in vulnerable population groups ;3. Acquire basic health services management knowledge including from health economics, health technology assessment and health policy.



8. Content

8.1. Course	Teaching methods	Observations
Lecture 1 Global health – XXI century public health challenges	- Lecture; - Interactive engagement ; materials cover the curriculum and syllabus and engagement is done by means of : multimedia/ videoprojection of PowerPoint presentations, short educational films ; - All lectures are supported with .ppt presentations which are posted on the university site ; - The Discipline has a library and a licensed laboratory.	2hours
Lecture 2 The Epidemiology of health and disease – Key concepts for public health		2hours
Lecture 3 Epidemiology (2) – Epidemiology in clinical practice ; and at population level		2hours
Lecture 4 Illness, sickness and disease in human populations. Morbidity : measurement and analysis		2hours
Lecture 5 Communicable diseases – a public health problem. Systems for surveillance and control		2hours
Lecture 6 Intervention strategies for problematic non-communicable diseases in public health		2hours
Lecture 7 Medical mass examinations and screening		2hours
Lecture 8 Health promotion. Communication: promoting health		2hours
Lecture 9 Management – basics: functions, roles, aptitudes and principles and their applied use for health services		2hours
Lecture 10 Health care systems – legal frame, functions, organisation. Health care system reforms		2hours
Lecture 11 Health services financing – comparative analysis		2hours
Lecture 12 Basics of health economics and economic evaluation		2hours
Lecture 13 Health technology assessment		2hours
Lecture 14 Managerial roles and aptitudes, leadership/ management styles. Decision taking in health care systems. Planning		2hours

8.2. Clinical rotation	Teaching methods	Observations
Practical 1. Management of a public health research project – structure, methodology	- Practical applications, psychological and evaluation testing and instruments, case studies, databases, article abstracts, essays, specialist peer reviews, debates, heuristic conversations, small group workshops, roleplays, individual study; - Projects are outputs of small working groups.	
Practical 2. Project management – Problems tree		
Practical 3. Project management – Objectives tree		
Practical 4. Evaluation of disease in human populations – morbidity indicators		
Practical 5. QoL evaluation/ QoL instruments		
Practical 6. The public health project – options and choice of topic		
Practicals 7-8. Epidemiometry		
Practical 9. Screening – characteristics of tests. Measurement		



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Practicals 10-11. Project management – data analysis, results presentation		
Practical 12. Health care services delivery in Romania – roleplay		
Practical 13. Scientific communication – roleplay		
Practical 14. Project presentation		

Bibliography for course and clinical rotation

Syllabus:

1. Furtunescu, Florentina Ligia; Mincă, Dana Galieta; Bratu, Eugenia Claudia, et al – „**Public Health and Management – textbook for practicals**” - **Medicine English Programme** – Editura Universitară „Carol Davila” București, 2016 – ISBN: 978-973-708-938-0
2. **Sănătate Publică și Management - ppt** – cursuri pentru studenții anului V Medicină - UMF CD English module
3. **Strategia națională de sănătate** - <http://www.ms.ro/strategia-nationala-de-sanatate-2014-2020/>
4. **Institutul Național de Statistică**. Baza de date Tempo on line - <http://statistici.INSSE.ro>

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

When year V undergraduates reach the PHM discipline they are already familiarised with research methodology and other techniques such as those applied in the fields of demography and epidemiology (e.g. epidemiometry with the aim to identify health problems in a population, priority setting at population and individual levels already studied within Community Health).

Moreover their current year V educational objectives allow for further developments within the area of global health with new ways of addressing population health issues, their integrative social and health care aiming to deepen students' clinical knowledge, ability and skills. This includes tailoring decision processes through holistic clinical management and aiming for continuity of care.

Training focuses on students achieving an understanding of the roles and functions of the health care system as well as how systems are organised and how they function in order to deliver health care. Concepts include legal frameworks, therefore the future medical doctor understands that case management decision takes place at different levels of care and that the decision process takes place within a multidisciplinary team.

The Discipline content is in accordance with professional standards and with those standards listed by representative employers.



10. Assessment

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course	- acquire with demonstration of understanding concepts and definitions formally presented/taught	- written exam – definition of basic and fundamental concepts (10%) - solving 25 Q (10 SC + 15 MC related to the 10%)	60%
Clinical rotation	acquire problem solving skills through case studies; practical applications related to theoretical concepts	- written exam – questionnaire, one case study	30%
	- small group project work : develop and implemet a primary research project which uses an appropriate methodology and techniques in order to achieve it with set objectives; - analysis of the data collected in accordance with valid data collection methods - presentation of results analysed with appropriate techniques, including visuals (graphs), by project objective	- PowerPoint presentation (.ppt) - draft an edited research report	10%

Minimum performance standard

- Achievement of a minimum set of criteria for the acceptance of the public health small group project at presentation
- The examination threshold for achieving a mandatory pass in the theoretical knowledge section is a minimum of 50% of the written MCQ.
- The examination threshold for achieving a mandatory pass in the case studies section is a minimum of 50% of the written MCQ.

Date of filing
September 2022

Signature of the course tenured
coordinator

Signature of the seminar tenured
coordinator

Date of approval in the
Council of the Department
24.10.2022

Signature of the Head of the
Department