

**Odessa National Medical University**  
**Department of Pediatrics No. 1.**

**Syllabus from the course**  
**Project management in the health care system**

<b>Amount</b>	3 credit a / 90 hours
<b>Semester, year of study</b>	Semester I , year of study-1
<b>Days, time, place</b>	According to the schedule in auditorium No. 7 Address: Department of Pediatrics No. 1. Akademika Vorobyov Street, 3. Seventh floor.
<b>Teacher(s)</b>	Biryukov Viktor Sergiyovich , associate professor , Doctor of Medicine
<b>Contact phone number</b>	+380-68-716-1235
<b>E-mail</b>	<a href="mailto:Dr. Victor_biryukov@gmail.com">Dr. Victor_biryukov@gmail.com</a> - Biryukov Viktor Sergijovich
<b>Workplace</b>	Office No.7; Department of Pediatrics #1
<b>Consultations</b>	<i>Face-to-face consultations</i> : Thursday from 3:00 p.m. to 5:00 p.m <i>Online consultations</i> : Thursday from 15.00 to 17.00; Saturday from 9.00 am to 1.00 pm <i>Microsoft Teams</i> or via <i>Zoom</i>

### **COMMUNICATION**

Communication with graduate students will be carried out through face-to-face meetings. In case of transition to distance learning, communication with graduate students will be carried out using e-mail and programs: Microsoft Teams, Zoom, Telegram and Viber .

### **COURSE ABSTRACT**

#### ***Subject study of the discipline***

**The subject of study of the** selective educational discipline "Project Management in the Health Care System" is the methodology of developing and implementing a project idea (on the example of a graduate student's dissertation) based on the study and control the stages of project implementation process

according to pre-developed rules within the framework of the budget and time constraints.

***Course prerequisites and post-requisites (The place of the discipline in education program)***

The study of the educational discipline " Project management in the health care system " is based on previous (providing) disciplines:

" Health care organizations " (study course), " Biostatistics " (study course), "Fundamentals of bioethics and biosafety" (study course), as well as specialty disciplines. At the same time, the study of this discipline ensures the preparation of graduate students and applicants for mastering the following disciplines of the first year of study - "Academic integrity", "Professional ethics of scientific activity in the field of health care" and "Pedagogy of higher education".

**Interdisciplinary connections:** based on the study of bioethics, health care organization, the basics of health care economics, management, medical law, biostatistics, clinical disciplines (infectious diseases, family medicine, phthisiopulmonology, internal medicine), which involves integration with these disciplines and form the ability to apply knowledge in the process of further education and professional activity.

***The purpose of the course.***

**The purpose of learning the course " Management of projects in the healthcare system" is:**

- studying the basics of project management as a unity of research, system, process, situational, clinical, standardized approaches, in order to widely use the acquired knowledge in the process of working on the idea of dissertation project, its completion and successful defence.

- the formation a systematic view methodology of preparation and implementation, methods and means of building projects, attracting resources for the implementation these projects and mechanisms for managing them, and devoted to the conceptual principles development and content of projects in relation to software development, project management.

**Competencies, the formation which is ensured by the educational discipline**

Studying the course "Management of projects in the health care system" will contribute to development in graduate students:

- critical views and deductive abilities necessary for them in the process of studying in graduate school and after its completion in everyday professional activities;

- the ability to choose and use appropriate methods, tools for justifying project management.

### ***The Discipline Tasks :***

The course "Management of projects in the healthcare system" provides:

1. The study of organizational and economic relations that determine the project management procedure as an idea of scientific research in the health care system in accordance with the National concept of development the public health system.
2. Mastering the basics procedure for creation, development and implementation the project idea as a topic of research work with its subsequent defence for obtaining the scientific degree "Doctor of Philosophy" and "Doctor of Science" in higher educational institutions.

*Project management is understood as a set of organizational and economic relations that are related to the idea of project, with the processes that flow inside the research structure during its development during postgraduate studies, as well as outside it, which directly relate to life of this project .*

The object of project management in health care is an informational idea, which provides for availability of a material and technical base supported by financial security, technological consistency, clinical approval and the certification procedure, which will ensure the effective implementation the goal and the most complete satisfaction the public requests country's population, collective and individual needs of patients as result of project implementation, idea of which is aimed at improving medical care in Ukraine.

The art of management, which combines:

- objective factors of management as a mechanism of coordination people in the process of activity, taking into account the requirements of scientific management;
- individual factors as a manifestation of intelligence in the process of working on a project idea in accordance with the requirements the laws of creativity.

The art of project management is skills, it is the ability to implement theoretical knowledge into practice, it is a set of ideas, images, benchmarks, skilful application of experience, rules for conducting clinical research taking into account the physiological characteristics of patients.

Multifaceted awareness and satisfaction with the result of intellectual work will allow to be realized the creative abilities of graduate students.

### ***Tasks of the discipline :***

- operation with categories and doctrines of medical management;
- clarification of basic concepts, problems and stages of cognitive activity;
- determination of regularities in the development of science, particular priority ones in directions of pharmacy development;

- elucidation the essence and methodology of the scientific research process, stages and regularities the cognitive process;
- determination the principles of generating scientific hypotheses and technology
- formulation of the research question;
- analysis and interpretation of research results in the chosen scientific direction;
- determination the stages in the planning and implementation of research work;
- defining the design of statistical studies;
- understanding the sociocultural and scientific methodological foundations of bioethics and nooethics, as well as the ethical and legal foundations of biomedical and pharmaceutical research.

### *Expected learning outcomes*

According to the results of studying the discipline, graduate students should **know:**

- basic concepts, project management terminology;
- basic approaches to creating organizational structures of project management;
- methods of network and calendar planning of projects;
- project risk assessment methods;
- methods of planning and quality assurance of projects;
- the main software products used in project management;
- research ethics;
- types and sources of information;
- forms, methods and means of identification, search and storage of information;
- basics of rhetoric and theory of argumentation;
- professional vocabulary and terminology according to the scientific direction research;
- stages and regularities of research work;
- methodology of scientific research;
- informative criteria for evaluating processes, functions, phenomena;
- opportunities and limitations of various research methods;
- the concept of research novelty;
- technology of writing and standards of design of scientific papers to national and international scientific publications;
- scientometric bases and platforms (for example, Scopus, Web of Science, RubMed, etc.).
- systems of educational and scientific grants at the national and international level;
- conditions of participation and the technology of preparing a grant application;
- project development technology

***be able:***

- carry out justification of projects;
- build a structure for distribution the project work;
- determine the logical sequence of work performance;
- draw up and monitor work execution plans;
- determine possible risks of project and develop risk reduction measures .

The discipline ensures the achievement ***the following learning outcomes:***

- demonstrate basic knowledge of project management for future use in practice;
- to possess methods and tools for substantiating the main software products used in project management.
- operate with theoretical categories and doctrines;
- constantly improve your educational and general cultural level;
- independently carry out educational and scientific activities;
- discuss scientific knowledge;
- express their views and accept their own decision;
- analyse the main theories and concepts by research direction;
- interpret the results of research in chosen scientific direction;
- conduct a critical analysis of modern scientific literature;
- adequately evaluate the achievements and limitations of selected research scientific direction;
- determine the degree of solving problems and needs of modern pharmaceuticals sciences;
- formulate research questions and hypotheses;
- choose and use research methods adequate for achievement the goal and objectives of scientific project;
- determine the novelty, evaluate the theoretical and practical significance the research;
- conduct data analysis and synthesis;
- conduct meta-analysis of data, systematize them;
- to have the culture of speech, methods of argumentation;
- to present and discuss the results their work in Ukrainian and foreign language (English) in oral and written form;
- search for grant programs;
- prepare a project according to the application form;
- prepare application for participation in competition for receiving financial support;
- to have terminology, use of written language skills in native and foreign languages for justifying the project and completing the grant application;
- organize and conduct independent search, systematization of data, responsible attitude to project development.

## **COURSE DESCRIPTION**

### ***Forms and methods of education***

The course will be taught in the form of lectures (10 hours) and seminars (65 hours), organization the independent work of graduate students (44 hours), total 90 hours (3 credits ).

The study discipline should be implemented on basis the methods of problem presentation, heuristic, research, interactive (project method).

The study discipline is implemented on the basis the following teaching methods:

- according to the dominant means of education: verbal, visual;
- drawing up graphic schemes;
- solving creative tasks;
- blitz survey;
- group discussions on problem situations;
- performance of written tasks;
- individual control interview;
- logical exercises;
- role-playing (business) games;
- situational tasks ("case method");
- performance of individual philosophical studies;
- a problem-based teaching method aimed at formation of students the ability to dialogue and the ability to defend one's own opinion;
- the "brainstorming" teaching method, which encourages the listeners to express themselves creative approach and find alternative methods of solving the proposed ones tasks through free expression of thoughts.

### ***Content of the academic discipline***

Discipline: "Project management in the healthcare system"	
<b>Chapter 1 .</b> Management of project activities taking into account the requirements of the concept of development of the public health system.	
Topic 1.	Project management as one of the types of management activity
Topic 2.	A systematic approach to project management
Topic 3.	The project as one of the areas of strategic management planning (using SWOT analysis criteria)
Topic 4.	The idea of the project as a possible implementation of the Program for the implementation of general medical care in the country (taking into account the smart criteria)

<b>Chapter 2. The project as a result of scientific research</b>	
Topic 5.	Marketing research and marketing strategy in the process of coordination project ideas
Topic 6.	Marketing planning of the project life cycle as a management choice procedure
Topic 7.	Formation and filling of the structure of the project idea
Topic 8.	Management of risks, contingencies and processes
<b>Chapter 3. Organization of project management in scientific and practical research.</b>	
Topic 9	Organizational function of project management.
Topic 10	The initiator of the project idea. The team of project participants and its manager are leaders
Topic 11.	Brainstorming as a procedure of collective creativity
Topic 12.	Conflictology in project management
<b>Chapter 4. Financial management and its effectiveness in the implementation of the project idea.</b>	
Topic 13	Fundraising as the search and collection of funds for the implementation of the project idea
Topic 14	Business (commercial) relations with sponsors during the fundraising period
Topic 15	Methodology for calculating the cost of medical care services as a project idea using the method of step-by-step distribution of costs (step down).
Topic 16	The cost of the medical service project idea and its components.
<b>Chapter 5. Quality management. Controlling. Reporting. Assessment of project effectiveness.</b>	
Topic 17	Project quality management system (taking into account ISO-9000 standards)
Topic 18	Monitoring the effectiveness of project implementation.
Topic 19	Product certification as a result of the project idea.
Topic 20	Organization of the project presentation and defense procedure. Final lesson.
Credit	

## VIII. Recommended Books

## Main (basic):

1. Приймак В.М. Управління проектами. Навчальний посібник. К.: Київський національний університет імені Тараса Шевченка, 2017.- 464 с. (Priymak V.M. Project management . Study guide . К.: Kyiv National University of Taras Shevchenko , 2017. - 464 p. ) V. PryimakPM\_book2017\_noz (1).pdf  
URL:[https://www.researchgate.net/publication/324704189\\_Upravlinna\\_proektami\\_navcalnij\\_posibnik](https://www.researchgate.net/publication/324704189_Upravlinna_proektami_navcalnij_posibnik)
2. БАБАЄВ В. М. Управління проектами. Навчальний посібник для студентів спеціальності «Управління проектами» ( ВАБАЄВ V. М. Project management. Study guide for students majoring in "Project Management"). URL :  
<http://kist.ntu.edu.ua/textPhD/upravProekt.pdf>
3. Яковенко О.І. Управління проектами та ризиками : Навчальний посібник / О.І. Яковенко. – Ніжин: Видавець ПП Лисенко М.М., 2019. 196 с. (Yakovenko O.I. Project and risk management : Training manual / O.I. Yakovenko – Nizhin: Publisher of PP Lysenko M.M., 2019. 196 p.).  
URL : <http://surl.li/cmiiuu>
4. История предмета Управления Проектами. Интерес к сфере УП в мире. (History of the Project Management subject. Interest in the field of UP in the world). URL : <http://surl.li/cmpql>
5. Общественное здоровье и управление здравоохранением: учебное пособие - Р: Типографиya Niso Poligraf, 2018. - 115 pages. URL: <http://surl.li/cnhvv>
6. "Project Management": a study guide for studying the discipline for masters in the field of knowledge 07 "Management and Administration" specialty 073 "Management and Business Administration" / Compiler: L.E. Dovgan, G.O. Mohonko, I.P. Malik - К.: KPI named after Igor Sikorskyi, 2017. – 420 p.
7. Project management: training manual. Educational syllabus disciplines 2019. Internet resource: [Upravlinnya-proektamy.pdf](http://Upravlinnya-proektamy.pdf)
8. The only unified method of calculating the cost of medical services and weighting coefficients of U - DRG groups in health care institutions of Ukraine  
URL : <https://ips.ligazakon.net/document/NT1884>
- 9 . **Moiseyenko R. O.** The only unified method of calculating the cost of medical services, outpatient polyclinic and inpatient treatment / R. O. Moiseyenko, O. K. Tolstanov, V. V. Zaleska, V. I. Yastrubinsky, G. O. Slabky, M. V. Shevchenko , Y.



F. Radysh, V. D. Dolot, V. O. Zhelman, I. I. Yatsyuk, M. I. Chermak // [Ukrainian Medical Journal](#) . - 2012. - No. 3. - P. 150-156.

Access mode: [http://nbuv.gov.ua/UJRN/UMCh\\_2012\\_3\\_35](http://nbuv.gov.ua/UJRN/UMCh_2012_3_35)

<https://dspace.uzhnu.edu.ua/jspui/handle/lib/39240>

10 . Report on the state of health in the world in 2013 - WHO, 2013. - 206 p.

(access mode: [www.who.int/whr/2013/report/ru](http://www.who.int/whr/2013/report/ru) ).

11. Health 2020 – foundations of European policy and strategy for the 21st century.

- WHO, 2013. - 232 p. URL : <https://apps.who.int/iris/handle/10665/327884>

### **Auxiliary**

1. Kogon K. Project management / Cory Kogon, Suzette Blakemore, James Wood//, 2018. –240 p. Internet resource:

<https://www.yakaboo.ua/upravlenie-proektami-1639980.html>

2. Stanley I. Portny. Project management for "kettles", 2005. – 349 p.

<http://surl.li/cnhuu>

3 Creative technologies of project and program management : Monograph.//Bushuev S.D., Bushueva N.S., Babaev I.A., Yakovenko V.B., Grisha E.V., Dzyuba S.V., Voitenko A. WITH. - K.: "Sammit-Knyga", 2010. - 768 p.: ill. URL : <http://upma.kiev.ua/2019/11/21/creative/>

4. Public health: textbook for students. higher med. studies routine. /Editor's note V.F. Moskalenko. - Izd. 3 - Vinnytsia: "New Book", 2013. - 560 p.

5. Manual on social medicine and health care organization / Ed. Yu. V. Voronenko. – Kyiv: "Zdorovye", 2012. – 359 p.

5. Kravchenko A.G. Medical statistics: Handbook for students and doctors/ Kravchenko A.G., Biryukov V.S. – Odessa: Astroprint, 2008. – 228p.

### **Information resources**

- World Health Organization [www.who.int](http://www.who.int)
- European database "Health for all" [www.euro.who.int/ru/home](http://www.euro.who.int/ru/home)
- Cochrane Center for Evidence-Based Medicine [www.cebm.net](http://www.cebm.net)
- Cochrane Library [www.cochrane.org](http://www.cochrane.org)
- US National Library of Medicine - MEDLINE [www.ncbi.nlm.nih.gov/PubMed](http://www.ncbi.nlm.nih.gov/PubMed)
- Canadian Center for Evidence in Health [www.cche.net](http://www.cche.net)
- Center for Disease Control and Prevention [www.cdc.gov](http://www.cdc.gov)
- Public Health Center of the Ministry of Health of Ukraine [www.phc.org.ua](http://www.phc.org.ua)

- Ukrainian database of medical and statistical information "Health for all": <http://medstat.gov.ua/ukr/news.html?id=203>
- British Medical Journal [www.bmj.com](http://www.bmj.com)
- Journal of Evidence-Based Medicine [www.evidence-basedmedicine.com](http://www.evidence-basedmedicine.com)

## EVALUATION

*Current control* is carried out at seminar classes in accordance with formulated tasks for each topic. When evaluating educational activities, preference is given to standardized control methods: oral survey, structured written works, discussions, role-playing games, reports.

*Current control methods:* Evaluation of the success of studying each topic of the discipline is carried out according to a traditional 4-point scale.

The current academic performance is calculated as the average current score, i.e. the arithmetic average of all grades received by the graduate student on a traditional scale, rounded to 2 (two) decimal places, for example 4.75.

Assessment of current discipline control:

The meaning of the "**excellent**" rating: the graduate student shows special creative abilities, knows how to independently acquire knowledge, finds and processes the necessary information without the help of a teacher, knows how to use the acquired knowledge and skills to make decisions in non-standard situations, convincingly argues answers, independently reveals his own gifts and inclinations.

The meaning of the grade "**good**": the graduate student has a good command of the studied material, applies it in practice, solves exercises and problems in standard situations, independently corrects the mistakes made, the number of which is insignificant.

The value of the rating is "**satisfactory**": the graduate student reproduces a significant part of the theoretical material, demonstrates knowledge and understanding of the main provisions; with the help of the teacher, he can analyze the educational material, correct errors, among which there are a significant number of significant ones.

The value of the rating is "**unsatisfactory**": the graduate student has mastered the material at the level of individual fragments, which constitute a small part of the educational material.

Only those graduate students who have no academic debt and have an average score for the current educational activity of at least 3.00 are admitted to the final certification.

*Forms and methods of final control:*

The form of the final control of knowledge in the academic discipline is an exam.

The average score for the discipline is translated into a traditional evaluation of the discipline on a 4-point scale and is considered as the ratio of this arithmetic

average to the percentage of assimilation of the required amount of knowledge in the given subject.

GPA for discipline	The relation obtained by the graduate student the average score for the discipline to the maximum possible value of this indicator	Score with disciplines on a 4-point scale (traditional assessment)
4.45 - 5.0	185-200	5
3.75 - 4.44	151-184	4
3.0 - 3.74	120-150	3

### **Independent work of graduate students .**

The independent work of graduate students , which is provided by the topic of the lesson along with classroom work, is evaluated during the current control of the topic in the corresponding lesson. Mastery of topics that are presented only for independent work is checked in the last lesson.

### **COURSE POLICY** ("rules of the game")

***Policy on deadlines and rescheduling*** : *if* a student of higher education was absent from classes for any reason, the practice is carried out within the deadlines set by the teacher. According to the Regulation on the organization of the educational process at ONMedU <https://onmedu.edu.ua/wp-content/uploads/2020/01/osvitnij-proces.pdf> . All tasks provided by the program must be completed within the deadlines set by the teacher.

#### **Academic Integrity Policy :**

The policy of the educational component is based on the principles of academic integrity (link to the regulations on the university website <https://onmedu.edu.ua/wp-content/uploads/2020/07/polozhennja-pro-dobrochesnist.pdf> and is determined by the system of requirements that the teacher presents to the applicant when studying the educational component:

- ♦ independent performance of educational tasks, tasks of current and final control of learning results (for persons with special educational needs, this requirement is applied taking into account their individual needs and capabilities);
- ♦ references to sources of information in case of use of ideas, developments, statements, information.

***Attendance and Tardiness Policy*** : . Attendance and work in classroom classes (lectures and seminar classes) is mandatory for obtaining a satisfactory grade. A graduate student is allowed to be late for no more than 10 minutes.

***Mobile devices:*** you can use mobile devices in class with the teacher's permission.

***Behavior in the audience:***

While in the audience, the following are important: respect for colleagues; tolerance for others; receptivity and impartiality; the ability to disagree with an opinion, but respect the personality of the opponent (during discussions); thorough argumentation of one's opinion; compliance with the ethics of academic relationships.

It was approved at the meeting of the quality assurance group of the ONMedU educational program  
(Protocol No. \_\_\_\_\_ of \_\_\_\_\_2022).  
Guarantor of the educational program, \_\_\_\_\_



Leading teacher:

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Originality of the discipline: *author's course*