UNIVERSITY OF ECONOMICS - VARNA

FACULTY OF MANAGEMENT

DEPARTMENT OF INTERNATIONAL ECONOMIC RELATIONS

Adopted by the FC (record № 12/ 29.04.2024)
Adopted by the DC (record № 8/ 16.04.2024)

ACCEPTED BY:
Dean:
(Assoc. Prof. D. Dobrev, PhD)

SYLLABUS

SUBJECT: IT PROJECT MANAGEMENT

DEGREE PROGRAMME: Maritime Business and International Trade;

BACHELOR`S DEGREE

YEAR OF STUDY: 3; SEMESTER: 5

TOTAL STUDENT WORKLOAD: 240 hours; incl. curricular 60 hours

CREDITS: 8

DISTRIBUTION OF STUDENT WORKLOAD ACCORDING TO THE CURRICULUM

TYPE OF STUDY HOURS	**WORKLOAD, hours**	**TEACHING HOURS PER WEEK, hours**
CURRICULAR: incl. • LECTURES • SEMINARS / LAB. EXERCISES	 30 30	 2 2
EXTRACURRICULAR	180	-

Prepared by:

1. **……..**
(Prof. Julian Vasilev. PhD)

2. **……**
(Chief Assist. Prof. Miglena Stoyanova, PhD)

Head of department
of Informatics: ……
(Prof. Julian Vasilev. PhD)

I. ANNOTATION

"IT Project Management" is a discipline through which students acquire knowledge and skills in the field of project management of software projects.

The main directions of the discipline are related to the specifics of planning an IT project, description of tasks in an IT project, risk management in an IT project and maintenance of an IT project.

Specific knowledge and skills regarding IT project management are provided by working with MS Project/ProjectLibre, working with case studies oriented towards software projects;

The key topics in the course are related to IT project management models, IT project work monitoring and analysis of expected results.

The main focus of the discipline is on the project management of software projects.

Training in the discipline is related to the acquisition of knowledge about:

- *Project management of software projects;*
- *Specifics of IT projects.*

After completing studies in this discipline, students should be able to:

- *Compile a project proposal for an IT project;*
- *Work with MS Project/ProjectLibre;*
- *Monitor the progress of IT project implementation;*
- *Prepare the necessary project documentation.*

The discipline ends with an exam.

According to the recommendation of the Council of the European Union of May 22, 2018, the following key competences are applied and developed during training in the discipline:

- *digital and technology-based competence;*
- *numerical, scientific and engineering skills.*

II. THEMATIC CONTENT

№	TITLE OF UNIT AND SUBTOPICS	NUMBER OF HOURS		
		L	S	L.E.
Theme 1. ESSENCE AND CHARACTERISTICS OF AN IT PROJECT. STRATEGIES FOR DEVELOPING AN IT PROJECT		**8**		
1.1.	Essence, characteristics, life cycle of an IT project			
1.2.	Purpose, requirements, structure of tasks in an IT project			
1.3.	Types of activities in an IT project. General model of an IT project			
1.4.	Strategies for developing an IT project			
Theme 2. IT PROJECT MANAGEMENT		**8**		
2.1.	IT project planning			
2.2.	Tasks in an IT project			
2.3.	IT project schedule			
2.4.	Software products for IT project management			
Theme 3. MODERN TRENDS IN IT PROJECT MANAGEMENT		**7**		
3.1.	IT project quality management			
3.2.	IT project monitoring and control			
3.3.	Risk management in an IT project			
3.4.	Application of Scrum. Peculiarities from the point of view of organization and management			
Theme 4. EVALUATION OF IT PROJECT IMPLEMENTATION		**7**		
4.1.	Analysis of the expected results of an IT project			

4.2.	IT project support			
4.3.	Collaborative work of IT project partners			
Theme 5. WORKING WITH MS PROJECT/PROJECTLIBRE		**-**	**30**	
5.1.	Creating a task list			
5.2.	Resource Allocation			
5.3.	Assigning resources to a task			
5.4.	Formatting and printing a plan			
5.5.	Tracking the progress of a task			
5.6.	Fine tuning the details of a task			
5.7.	Fine tuning resource and assignment details			
5.8.	Fine tuning of a project plan			
5.9.	Organizing and formatting the details in a project			
	Total:	**30**	**30**	

III. FORMS OF CONTROL:

№	TYPE AND FORM OF CONTROL	Number	extracur-ricular, hours
1.	**Midterm control**		
1.1.	Course project 1 in MS Power Point on a selected topic	**1**	**44**
1.2.	Course project 2 in MS Project/ProjectLibre on the selected topic	**1**	**44**
1.3.	Presentation and defense of the two course projects	**1**	**44**
	Total midterm control:	**3**	**132**
2.	**Final term control**		
2.1.	Examination (electronic test on lecture material and exercises)	**1**	**48**
	Total final term control:	**1**	**48**
	Total for all types of control:	**4**	**180**

IV. LITERATURE

REQUIRED (BASIC) LITERATURE:

1. Vasilev, J. and Stoyanova, M. A course of lectures and exercises provided for free non-commercial use in an electronic version on the university's e-learning platform.
2. Project Management Institute. (2021). A Guide that the Project Management Body of Knowledge (PMBOK® Guide) - and The Standard for Project Management. Project Management Institute.

RECOMMENDED (ADDITIONAL) LITERATURE:

1. Gaborov, M., Karuović, D., Kavalic, M., Radosav, D., Milosavljev, D., Stanisaljev, S., & Bushati, J. (2021). Comparative analysis of agile and traditional methodologies in IT project management. Journal of Applied Technical and Educational Sciences, 11(4), 1-ArtNo.
2. Lock, D. (2021). Project management. Link: http://103.38.12.142:8081/jspui/bitstream/123456789/552/1/Project%20Management.pdf
3. Martínez, J. I., & López, M. C. (2019). The Agile Scrum Method, Evolution and Application in Project Management. Modern Environmental Science and Engineering, 5(1), 75-81.
4. Woźniak, M. (2021). Sustainable Approach in IT Project Management—Methodology Choice vs. Client Satisfaction. Sustainability, 13(3), 1466.