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**Establishing Modern Master-level Studies in Information Systems
561592-EPP-1-2015-1- FR-EPPKA2-CBHE-JP**

WP3

3.1. Pilot teaching MSc

Piloting Report of the MASTIS course

Management of IS Project (IS PM)

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Piloting reports track and summarize the key takeaways from MASTIS program. PC use these reports to evaluate what is working and what isn't and to develop recommendations for improvement some components within MASTIS courses

1. Please provide shot description

The experimental (pilot) teaching of "Management of IS projects" course it teaching during the spring semester (2018) for the group of students "3AKIT-15m" of the master's program "Information systems and the Internet of things". The course was started at 6.02.2018. Training was based on modernized curriculum and combination of the lectures, workshops, project and essays writing.

The practical and laboratory part of the course is carried by prof. O.Bisikalo.

12 students passed this course using materials developed by ERASMUS+ MASTIS consortium and by teachers of VNTU.

2. How were the courses delivered?

Who led the Piloting of the course	Yevhen Palamarchuk (VNTU) Oleg Bisikalo (VNTU)
Who were the lecturers who delivered the course	Yevhen Palamarchuk (VNTU) Oleg Bisikalo (VNTU)
What was the Piloting period	29/09/2018 – 22/11/2018
How many students were enrolled and who were they	12 Master students of MBA Business-Informatics (1st year students)

3. Please provide a table which containing the names of the students who were involved in the piloting of the IDP courses

Here is the list of students of the group 3AKIT-17m that took part:

- Baganovska O.
- Vishnevskyi V.
- Golumbyevska Yu.
- Lisova O.
- Maksimov O.

- Maksimova (Naumenko) A.
- Misyura A.
- Svitelska I.
- Slobodyan R.
- Tatarsky P.
- Chernovolyk O.


4. What were the E-learning materials used?

- Provide links to the Platform used to pilot the IDP courses

https://iq.vntu.edu.ua/method/by2.php?card_id=532

It was developed electronic Navigator of Course with the learning materials. They include theoretical materials, tasks for laboratory practicum and two electronic tests.

Дисципліна : Управління проектуванням інформаційних систем. Management of IS Projects.
Спеціальність : Автоматизація та комп'ютерно-інтегровані технології. Інформаційні системи і Інтернет речей.
Сем/трим : 10



Навчальні ресурси

Код.	Назва	Автор(и)	Тип	Вид	Рейт.
5340	Lections				
5339	Remote lection activity.		html		
5094	Lections Themes		html		
5854	Links				
5858	IT Project Management. Coursera.		url		1
5855	Менеджмент IT-проектів		url		
5856	РМВок за 2,5 часа		url		
5093	Labs				
5092	Themes&Tasks.Planning and managing the development process of a software product in MS Project.	O. Kovalenko	pdf	МВ	10
5111	Microsoft Office Project. Theory. P1.	comb. by Y. Palamarchuk	pdf	МВ	11
5112	Microsoft Office Project. Theory. P2.	comb. by Y. Palamarchuk	pdf	МВ	4
5113	Microsoft Office Project. Theory. P3.	comb. by Y. Palamarchuk	pdf	МВ	4
5114	Microsoft Office Project. Theory. P4.	comb. by Y. Palamarchuk	pdf	МВ	5
5106	Cascade project model	V. Horobey	pdf	МВ	3
5107	Extremal Programing	V. Horobey	pdf	МВ	3
5109	Spiral programing model	V. Horobey	pdf	МВ	3
5108	Methods of carrying of Program Projects	V. Horobey	pdf	МВ	4
5118	git. CVS. Commands.	Y. Palamarchuk	test		0/0
5119	git. CVS. Extended commands.	Y. Palamarchuk	test		0/0
5091	Learning Docs				
5089	Learning Program. Management of IS Projects	Y. Palamarchuk	pdf	НПр	7
5090	Management of IS Projects Learning Outcomes	Y. Palamarchuk	pdf	РПр	5

Міні-форум

Figure 1 – The Navigator of Course “Management of IS Project” in JetIQ System.

4.1. Please explain very briefly how these were made available to students

The course was posted at the e-learning VNTU system JetIQ - <https://iq.vntu.edu.ua>. This portal is available for all VNTU students (to get access students use their personal logins and passwords).

5. How was delivery organised?

Level of course unit	Masters level
Number of ECTS credits allocated	Credit weighting: 5 ECTS Lecture hours: 36 Workshop hours: 18 Independent study hours: 96 Examination (final test): 2 Total Student Effort: 150 hours
What kind of the training methods and activities were used	There were used a lot of facilitation techniques such as peer learning; self and peer assessment; group discussions, reviews and critiques; writing essays; case study discussions and practical implementation of some of the topics by trainees.

It was used the electronic university carrying system “JetIQ” for teaching and knowledge controlling purposes. The course themes were exploded into 2 teaching modules with 2x37 points. The total score is 100 points including exam results.

5.1. Course content

Features of IT projects and their place in the activities of the organization

Topic 1. Where do IT projects come from and their classification

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 2. Influence of enterprise architecture for IT projects

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 3. The landscape of modern standards, related to the Management of IT projects.

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 4. Processes of IT project management.

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 5. Goal Setting

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 6. Requirements management

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 7. Change management

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 8. Planning an IT project

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 9. Risk management of the IT project

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 10. Management of communications

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 11. Monitoring of the IT project

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 12. Types of methods of project management IT

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 13. The IT project team

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 14. The life cycle of IT projects

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 15. Documentary support of IT projects

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 16. PR and marketing of IT projects

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 17. How to measure the quality of IT projects

Practical component: group discussions, reviews, writing essay

Teaching method: training

Topic 18. Evaluation of the effectiveness of IT projects

Practical component: group discussions, reviews, writing essay

Teaching method: training

6. Online support offered by teachers during piloting

During the piloting process, students could contact tutors with questions via e-mail and internal forum and chat of VNTU JetIQ e-learning system.

The electronic system "JetIQ" was used in the MASTIS project. It is a single integrated client-server WEB-based training system. It implements the functions of distance learning and university management.

The system includes the following modules:

- The teacher's personal cabinet.
- Student's student room.
- Testing System Knowledge Test-IQ.
- Automated accounting and control system for students.
- Electronic Dean's Office

- Means of control and monitoring.
- Means of communication between teachers and students.

It is based on a unified database of students, disciplines, and teachers. Due to this the functions of the global information resource of Vinnitsa National University are realized.

JetIQ consists of the following subsystems:

1. The teacher's personal cabinet includes the following modules:
 - e-journal of the teacher
 - personal repository with scientific and educational materials
 - designer training courses
 - testing System "TestIQ"
 - communication system with students or faculty;
 - integration with GSuite modules in the domain vntu.edu.ua
2. The student's personal cabinet consists of modules such as:
 - Integrated environment for distance education with electronic teaching materials and tests
 - Student's educational card, which includes results of current progress, electronic scorebook, test results
 - Tools for communication
3. Automated accounting and control system for students. It includes:
 - automatic record of tests passed by the student and received by them estimates;
 - automatic counting of each student's time with analysis by days in tabular and graphical form;
 - automatic accounting of the use of methodological literature as each student, and each teacher separately;

- Full integration into the JetIQ system (each student has its own working environment, and teachers have the means to control the implementation of projects).

4. Electronic Dean's Office. It includes:

- Personal affairs of students;
- Success stories.
- Tools for managing the learning process

5. And the bucket of control tools for monitoring of e-learning process:

- Global statistics on the work of the training network.
- Monitor real-time student work on the network.
- Real-time test run monitor.

The JetIQ system was used to train students of group 3AKIT-17m. There were published educational programs and materials for the courses Information System Security, Innovation and Entrepreneurship, Data Mining, Information Technology Infrastructure, Information System Development, Information System Strategy, Enterprise Architecture Management, MIS and Data Warehousing, Management of IS Project.

All students of this group got theoretical and practice experience according to the modules of the teaching course plan. Students wrote essays for every theme and uploaded files with them into their own subfolder to Google Disk. Here is an example of essays written by student O.Maksimov:

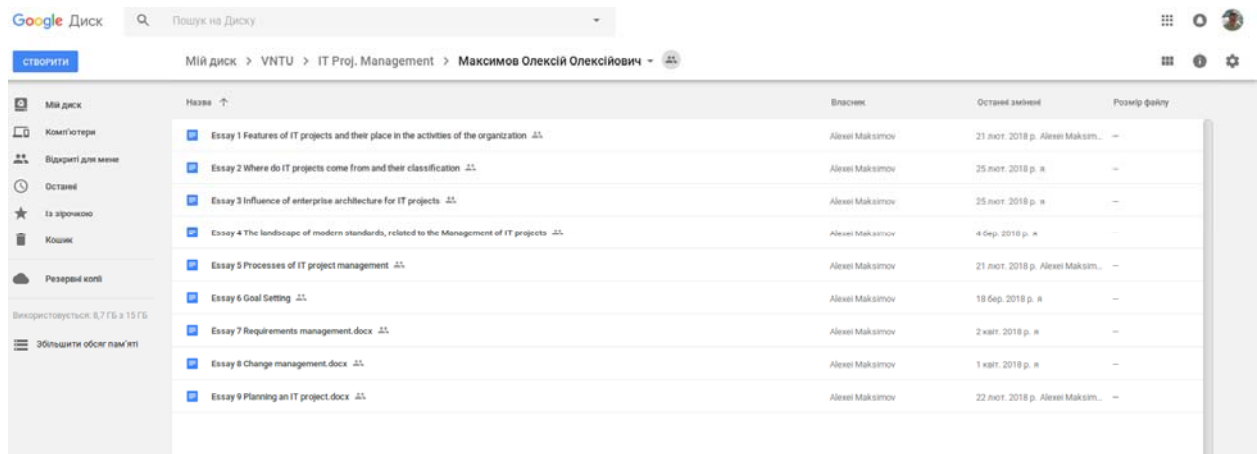


Figure 4 – E-learning journal with for Module Structure and results of the Course “Management of IS Project”. Check and Control.

Самостійна робота

ЗАКІТ-17м

№ п.п	Логін	Прізвище	Відвідувань	Мет.літ
1	01-13-038	Багановська Олена Дмитрівна	356	30
2	01-13-040	Вишневський Володимир Володимирович	185	46
3	01-13-044	Голумб'євська Юлія Станіславівна	250	65
4	01-13-053	Лісова Олена Володимирівна	268	25
5	01-13-055	Максимов Олексій Олексійович	188	35
6	01-13-018	Максимова Анастасія Тарасівна	92	21
7	01-13-058	Місюра Антон Ігорович	108	42
8	01-13-064	Світельська Ірина Вікторівна	400	28
9	01-13-026	Слободян Роман Віталійович	210	31
10	01-13-068	Татарський Павло Валерійович	406	31
11	01-13-028	Черноволик Олена Володимирівна	91	66
12	01-13-032	Шевчук Андрій Вікторович	81	35

Figure 5 – Students activity list of the Course “Management of IS Project”. Check and Control.

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Користування методичною літературою

01-13-040, Вишневський Володимир Володимирович, група ЗАКІТ-17м

№	Дата	Предмет	Назва матеріалу	IP
1	7/2/2018 12:21:17	Методи аналізу і використання "великих даних"	Методичні вказівки до виконання лабораторної роботи на тему «Установка Hadoop» з дисципліни «Методи аналізу і використання "великих даних"»	194.146.140.7*
2	7/2/2018 14:34:4	Методи аналізу і використання "великих даних"	Facts About Big Data	109.108.237.188*
3	7/2/2018 14:35:24	Методи аналізу і використання "великих даних"	Методичні вказівки до виконання лабораторної роботи на тему «Установка Hadoop» з дисципліни «Методи аналізу і використання "великих даних"»	109.108.237.188*
4	7/2/2018 14:47:30	Методи аналізу і використання "великих даних"	Apache Spark Tutorial	109.108.237.188*
5	7/2/2018 15:40:2	Методи аналізу і використання "великих даних"	Hadoop Tutorial	109.108.237.188*
6	7/2/2018 15:40:7	Методи аналізу і використання "великих даних"	Конспект з мови R	109.108.237.188*
7	7/2/2018 15:45:34	Методи аналізу і використання "великих даних"	Конспект з мови R	109.108.237.188*
8	7/2/2018 15:45:43	Методи аналізу і використання "великих даних"	Learning Spark	109.108.237.188*
9	10/2/2018 18:2:51	Методи аналізу і використання "великих даних"	Apache Spark Tutorial	109.108.237.188*
10	10/2/2018 20:47:51	Методи аналізу і використання "великих даних"	Методичні вказівки до виконання лабораторної роботи №3 на тему «Розробка простого MapReduce додатку» з дисципліни «Методи аналізу і використання "великих даних"»	109.108.237.188*
11	10/2/2018 20:49:23	Методи аналізу і використання "великих даних"	Методичні вказівки до виконання курсової роботи з дисципліни «Методи аналізу і використання "великих даних"»	109.108.237.188*
12	10/2/2018 20:53:2	Методи аналізу і використання "великих даних"	Методичні вказівки до виконання лабораторної роботи №3 на тему «Розробка простого MapReduce додатку» з дисципліни «Методи аналізу і використання "великих даних"»	109.108.237.188*

Figure 6 – Activity of using e-learning materials by the student V.Vysnevsky. Check and Control.

Students could submit any digital content (files) in any suitable file format. A teacher has special module in his cabinet in JetIQ system, that gives his the ability to get, comment or reject students` uploaded files.

7. Evaluation of student knowledge and competences

The assessment of the success was conducted on the basis of the results of the current training according to the plan.

The results at the end of module 1 are:

ECTS	Percentage
A	24%
B	41%
C	22%
D	13%
E	-

8. Students' evaluation of the Piloting of the courses

Most students already work at IT-firms. They noted that the knowledge and skills gained during the training of this course were useful for their professional activities.

1. Lessons learned from Piloting

In order to improve the MASTIS courses I consider it expedient:

1. Maximize the use of all types of e-learning and communications.
2. Use meetings with entrepreneurs.
3. Conduct business excursions to enterprises.