



Syllabus of a Training Course for Improving Lecturers' Skills in Innovative Educational Technologies and Didactic Models

The syllabus is designed in accordance with the project of Modernization of Higher Education in Central Asia through new technologies (HiEdTec), WP4. Development of courses for trainers and lecturers for the acquisition of digital skills and innovative teaching and learning methods.

1. ABSTRACT:

At the beginning of the course a brief description of the educational system and the digital generation is given, innovative educational technologies in other countries are analyzed, the concept of adaptation is considered.

After that it gives answer to the the question what you need to know and be able to do in order to start the digital transformation of education.

The main ways of development are considered:

- Traditional learning;
- Synchronous distance learning;
- Asynchronous distance learning;
- Blended learning.

Attention is paid to innovative didactic models.

At the end of the course a vision of the classroom of the future is given.

2. TRAINING AIMS

The main purpose of the training is to familiarize teachers with ICT-based innovative educational technologies, the active and effective use of which will lead to the adaptation of the education system to the digital generation, i.e. to the digital transformation of this system.

3. PRECONDITIONS

Publishing in internet:

- Interactive multimedia guide to innovative educational technologies;
- PowerPoint presentations on the main topics of the syllabus;
- Video lectures on these topics.



4. SYLLABUS CONTENT

| No | TOPIC | L/P | D/W |
|-----------|--|------------|------------|
| 1. | Educational system and the digital generation | + | |
| 2. | Innovative educational technologies in other countries | + | |
| 3. | CONCEPT of adapting the education to the digital generation (PROGRAM of digital transformation of education) | + | |
| 4. | What do we have to know to start the digital education of education? | + | |
| 5. | DEVELOPING TRADITIONAL LEARNING | | |
| 5.1. | How to choose and optimally use interactive board / interactive monitor in the learning process | + | + |
| 5.2. | How to make a lecture more informative and attractive for the digital generation students | + | + |
| 6. | DEVELOPING SYNCHRONOUS DISTANCE LEARNING – in real time | | |
| 6.1. | How to use video-conference system | + | + |
| 6.2. | How to use a virtual classroom | + | + |
| 7. | DEVELOPING SYNCHRONOUS DISTANCE LEARNING - at any time | | |
| 7.1. | How to make and publish in internet interactive multimedia teaching materials | + | + |
| 7.2. | How to record and publish video lectures | + | + |
| 7.3. | How to create a virtual laboratory | + | + |
| 7.4. | How to make a virtual library in the cloud | + | + |
| 8. | DEVELOPING BLENDED LEARNING – main possibilities | + | |
| 9. | USING INNOVATIVE DIDACTIC MODELS | + | |
| 10. | Classroom of the future | + | |
| | Bcero: | 8 h | 8 h |

L/P – lecture / presentation

D/W – demonstration / workshop

5. LEARNING PIRADIGM

Due to the fact that all video lectures will be published on the Internet, the theoretical part of the training, partially or completely, can be carried out as distance learning.

Demonstrations and workshops will be conducted traditionally, i.e. face to face.



6. EXPECTED RESULTS

After the training using this syllabus, the lecturers will be prepared for the digital transformation of education and in particular – to perform the following tasks of the project:

4.4. Selecting a Learning management system (LMS) by each partner country university. Developing e-Learning courses - 5 at each university – a total of 75. Developing PowerPoint presentations of lectures, suitable for delivering on interactive electronic board, recording them as video lectures and publishing in YouTube - 5 at each university – a total of 75.

4.5. Creating a cloud-based Virtual Library

7. RECOMMENDED LITERATURE

Online e-Learning platform of the University of Ruse –
<https://e-learning.uni-ruse.bg/>

8. Each lecturer, who finished successfully the IOT training course, will get a certificate.

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