

STATE ENERGY INSTITUTE of TURKMENISTAN



Topic: SIGNIFICANCE OF INTERNATIONAL PROJECTS IN DEVELOPING DIGITAL EDUCATION



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INNOVATIVE EDUCATIONAL TECHNOLOGIES AT THE INSTITUTE

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Conception of “Improving
digital education system in
Turkmenistan” was accepted.

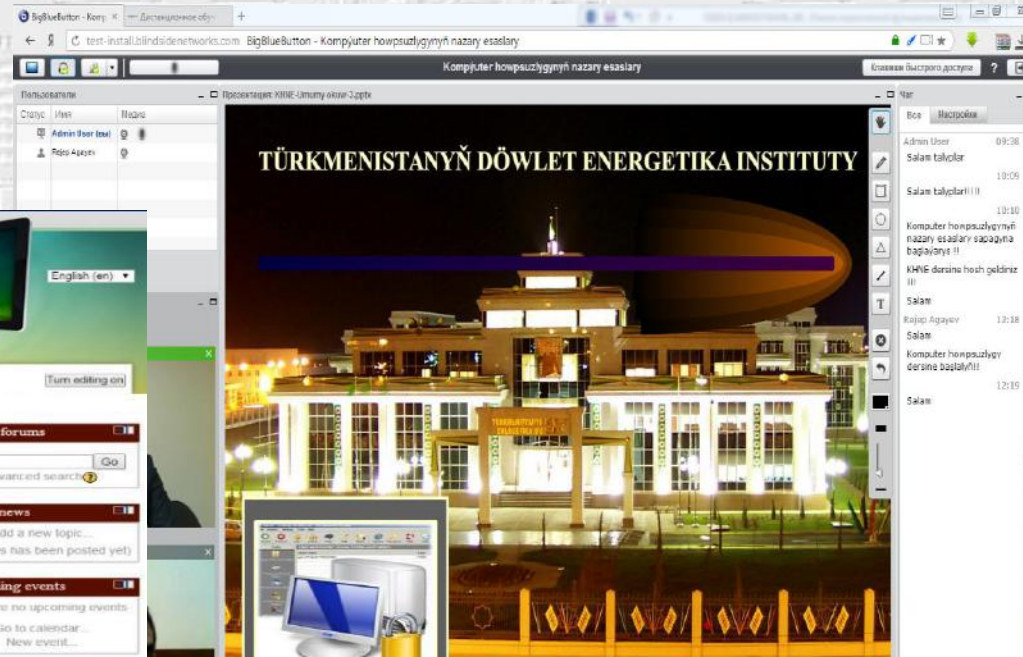


ABOUT THE INNOVATIVE EDUCATIONAL TECHNOLOGIES AT THE INSTITUTE



The screenshot shows a Moodle course page with a green header and navigation menu. The main content area displays a weekly outline for the course. The course title is "2. „Kompyuter howpsuzlygynyň nazary esaslary“ derisi". The outline includes several topics:

- 2. „Kompyuter howpsuzlygynyň nazary esaslary“ derisini okatmagyň maksady häziki zaman informasion tehnologiýalarynda ulanylan kompyuterleri, olaryň goragy we dogry tehniki serişdeler ulanylyş bilen tanyşyrmakdan, olaryň ulanylyş, işleýiş we dolandyryş usullaryny, düzümnamalaryny we hasyýetnamalaryny, esasy parametrlerni we ulanylyş ýerlerini öwretmekden ybaratdyr. Bu derisi öwrenmek bilen talypalar informasion tehnologiýalarda maglumatlaryň goragyny üpjün etmekeleýli usullaryny, hukuk binyadyny, talaplaryny ulgamda dogry ulanmak we howp analizini derňemek başlamyklary aýtarlar.
- 2.1. Kompyuter howpsuzlygynyň nazary esaslary
 - 2.1.1. Maglumat howpsuzlygynyň esaslary derisi
 - 2.1.2. „Kompyuter howpsuzlygynyň nazary esaslary“ derisi
- 2.2. Kompyuter ulgamlarynda maglumat howpsuzlygy barada talaplar we düzünjeler. Goragyň peýdeleri we objektleri barada düşünişler.
 - 2.2.1. KHNE-Umumy okuwa-1
 - 2.2.2. KHNE-Umumy okuwa prezentasiýa-1
 - 2.2.3. KHNE-Umumy okuwa prezentasiýa-2
- 2.3. PC (Personal Computer) howpsuzlygynyň düýn kábir başlangyç meseleleri. PC (Personal Computer) bar bolan gurulşar barada maglumatlar.
 - 2.3.1. KHNE-Umumy okuwa-3
 - 2.3.2. KHNE-Umumy okuwa prezentasiýa-3



The screenshot shows a Moodle forum page with a large banner image of the Turkmenistan State Energy Institute building at night. The forum title is "Kompyuter howpsuzlygynyň nazary esaslary". The forum content includes a search bar, a "Latest news" section, and a "Recent activity" section. The "Recent activity" section shows activity since Wednesday, 2 November 2016, 08:03 AM.

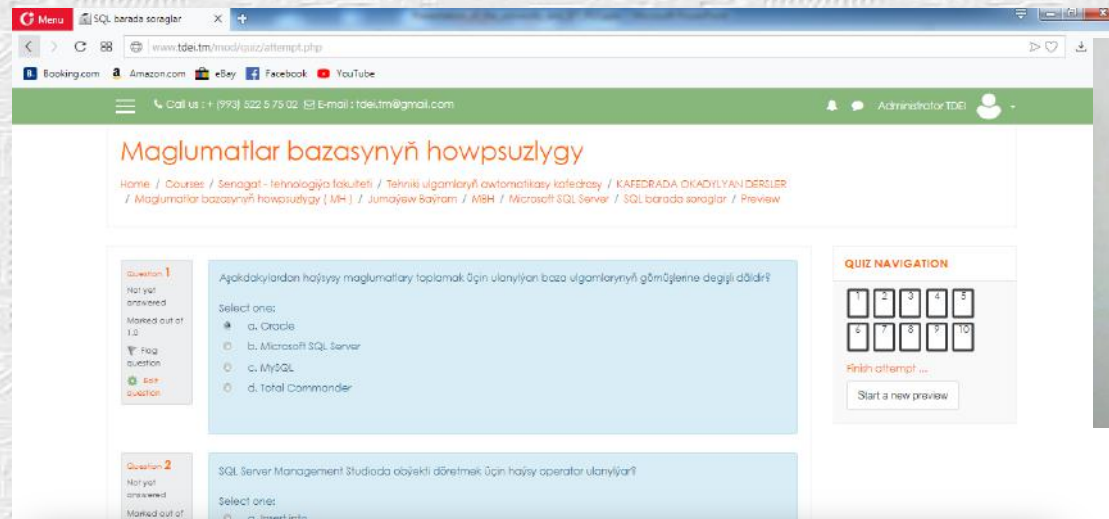


ABOUT THE INNOVATIVE EDUCATIONAL TECHNOLOGIES AT THE INSTITUTE

- ✓ Video lectures, presentations, quizzes are being prepared regularly and are being uploaded to the local network (intranet)
- ✓ Examinations are held on the computers through a network
- ✓ Attendance is checked through a network
- ✓ Inter-institutional video conferences are being organized
- ✓ e-Library system is placed in the library (intranet)
- ✓ Network based real-time educations are being carried out
- ✓ Web site of the institution was developed (www.tdei.edu.tm)

ABOUT THE INNOVATIVE EDUCATIONAL TECHNOLOGIES AT THE INSTITUTE

(об инновационных образовательных технологиях в институте)



The screenshot shows a web browser window with the URL `www.tdek.uz/mod/quiz/attempt.php`. The page title is "Maglumatlar bazasynyň howpsuzlygy". Below the title, there is a navigation menu with links like "Home", "Courses", "Sena gat - tehnologiya fakulteti", etc. The main content area displays two quiz questions. Question 1 asks about the security of a database system, with options: a. Oracle, b. Microsoft SQL Server, c. MySQL, and d. Total Commander. Question 2 asks about the operator used in SQL Server Management Studio for object management, with option a. insert into. A "QUIZ NAVIGATION" section shows a grid of numbers 1-10, with "1" highlighted, and a "Start a new preview" button.

SQLIA – clever coding attacks, bypassing authentication level

' or 1=1 --

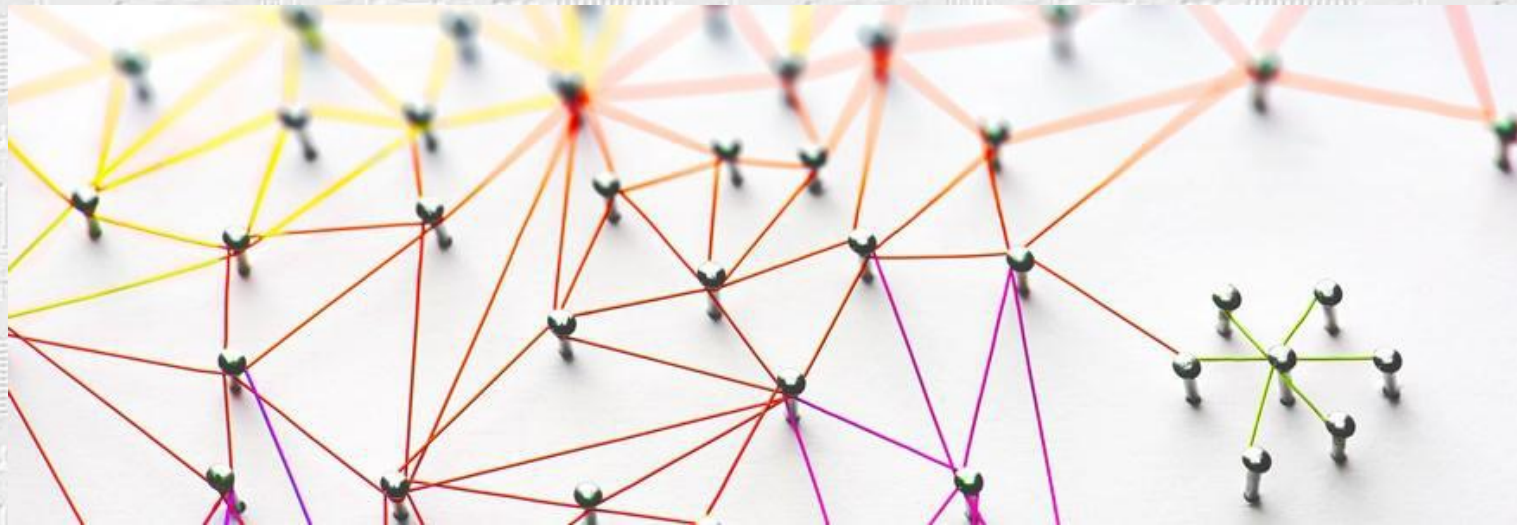
Solutions:

- Using parametrized Stored Procedures
- AMNESIA mechanism
- SQLRand mechanism
- Firewalls
- Effective coding techniques



Why participate in International Projects?

- Self-Assessment and Needs Assessment
- Benchmarking
- Sharing Interesting and Good Practices
- Networking
- Creating Communities of Practice
- Contributing towards [Institutional] Change
- Learning





Co-funded by the
Erasmus+ Programme
of the European Union

MODERNISATION OF HIGHER EDUCATION IN CENTRAL ASIA THROUGH NEW TECHNOLOGIES (HiEdTech) 2019-2022



COORDINATOR:

UNIVERSITY OF RUSE, BULGARIA

REASONS:

In order to respond to:

- the Digital Transformation of Industries ([Industry 4.0](#)), which also requires DIGITAL TRANSFORMATION OF EDUCATION with overtaking pace, **the consortium will develop Concepts of adapting the educational system to the digital generation**, considering the specific conditions of each of the partner countries;
- the requirement of the EU to give the opportunity for EVERYBODY to learn at ANY time and at ANY place with the help of ANY lecturer, using ANY device – computer, laptop, tablet, phablet, smart phone, etc. **the consortium will create Centres for innovative education technologies.**



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MODERNISATION OF HIGHER EDUCATION IN CENTRAL ASIA THROUGH NEW TECHNOLOGIES (HiEdTech)



MAIN PROJECT OUTCOMES AND PRODUCTS:

- Sustainable academic network for sharing experience and exchange of good practices in the field of innovative educational technologies and didactic models;
- 5 Concepts of adapting the education system to the digital generation - 1 per Partner country (PC);
- 15 Centres for innovative educational technologies - 1 at each PC university;
- 45 active learning classrooms - 3 at each PC university;
- Virtual classrooms – 1 at each PC university;
- Handbook of innovative educational technologies;
- Courses for trainers for the acquisition of digital skills and learning methods;
- Courses for lecturers for the acquisition of digital skills and learning methods;
- 75 e-Learning courses - 5 at each PC university;
- 75 PowerPoint presentations of lectures, suitable for delivering using interactive electronic white board - 5 at each PC university;
- Cloud-based Virtual Library of the digital educational resources.



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IMPACT:

- The project products will be of benefit for all stakeholders in education:
 - National and university policy-makers in the field of education;
 - University academics who are trainers / lecturers / learners;
 - Scientific, economic and social partners.
- The project will help to turn partner universities into innovative universities and to improve the quality of the trained specialists, who are necessary to perform the Digital Transformation of Industries ([Industry 4.0](#)).

PARTNERS:

19 universities from BULGARIA, ITALY, LUXEMBOURG, PORTUGAL, TURKMENISTAN, KAZAKHSTAN, KYRGYZSTAN, TAJIKISTAN, UZBEKISTAN and 5 Ministries of Education of the CENTRAL ASIAN countries.



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No	Name of the equipment	Quantity
1	Persy STINGER PR79388 Server + UPS	1
2	Vivitek D756USTI Ultra-short focus interactive multimedia projector	4
3	Lenovo Yoga 530-14IKB Notebook for IET	1
4	Acer TravelMate P259-G2-M Notebook for Active classroom	3
5	Lenovo IdeaCentre AIO A540 – 24ICB All-in-one	4
6	Samsung Galaxy Tab A 2018 Tablet	1
7	Bi-Office Trio Infinity 1800x1200 + 2x900 Whiteboard	4