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**Modernization of Higher Education  
In Central Asia  
through New Technologies  
(HiEdTec)**



# EVALUATION OF CENTERS FOR INNOVATIVE EDUCATIONAL TECHNOLOGIES UZBEKISTAN

Project: Modernization of Higher Education in Central Asia through New  
Technologies (HiEdTec)

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## **BASIC PROVISIONS**

The Center for Innovative Educational Technologies created to improve the skills of professor-teachers connected with the adaptation of the education system to the "digital generation" taking into account the specific conditions of Uzbekistan.

The Center was created within the framework of the project "Modernization of higher education in Central Asia through new technologies". (HiEdTec), WP5.8. Centers for Innovative Educational Technologies.

## **INTRODUCTION**

These IET Centers and Active Learning Classrooms help transformation the Higher Education to digital generation in the framework of HiEdTec project in Central Asian Universities. During the project, teachers of partner universities will improve their skills in using innovative educational technologies in the Center under trainers, and after the project they will train teachers working in higher educational institutions of Uzbekistan.

The goal of the IET Centers and Active Learning Classrooms - the use of educational technologies and didactic models in education, its adaptation to the digital generation and the practical, theoretical, as well as the skills of innovative educational technologies of teachers working in higher education will be qualified through the IET centers and Active Learning Classroom. Experiences shows that transformation to the digital generation provides the opportunity for EVERYBODY to learn at ANY time and at ANY place with the help of ANY lecturer using ANY end device – computer, laptop, tablet, phablet, smart phone, etc.

## **PROJECT OVERVIEW**

The main aim of the project is to adapt the education system in the PCs to the digital generation through the introduction and effective use of ICT-based Innovative Educational Technologies and Didactic Models (IET&DMs) in the teaching process.



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This aim corresponds to the strategic priorities for the development of education in each of the PCs, i.e. supporting the use of digital technologies and online delivery to improve pedagogies and assessment methods.

The project will help to turn the partner Higher Educational Institutions (HEIs) into innovative Universities and will improve the quality of the trained specialists necessary to perform the Digital Transformation of Industries (Industry 4.0).

The consortium comprises of 24 full partners – HEIs from 4 EU countries and 5 PCs.

The consortium includes two types of HEIs: European HEIs with solid experience in the innovative educational technologies and HEIs from Central Asia which want to introduce these technologies and open pedagogies in the field of higher education in order to improve and extend the supply of high-quality learning opportunities tailored to the needs of digital learners. The consortium also includes all PC Higher Education which will contribute to the dissemination, extension of impact and sustainability of project results in each PC.

The EU partners are well-known European Universities with rich experience in IETs. In addition, a part of them have established contacts and cooperation with some of the partners from the PCs and are therefore familiar with the higher education system, the facilities available and the main challenges which HEIs in the PCs face. This provisional knowledge of some of the EU partners and their Universities is an essential prerequisite for establishing successful collaboration from the project start.



## **HIEDTEC QUESTIONNAIRE RESULTS**

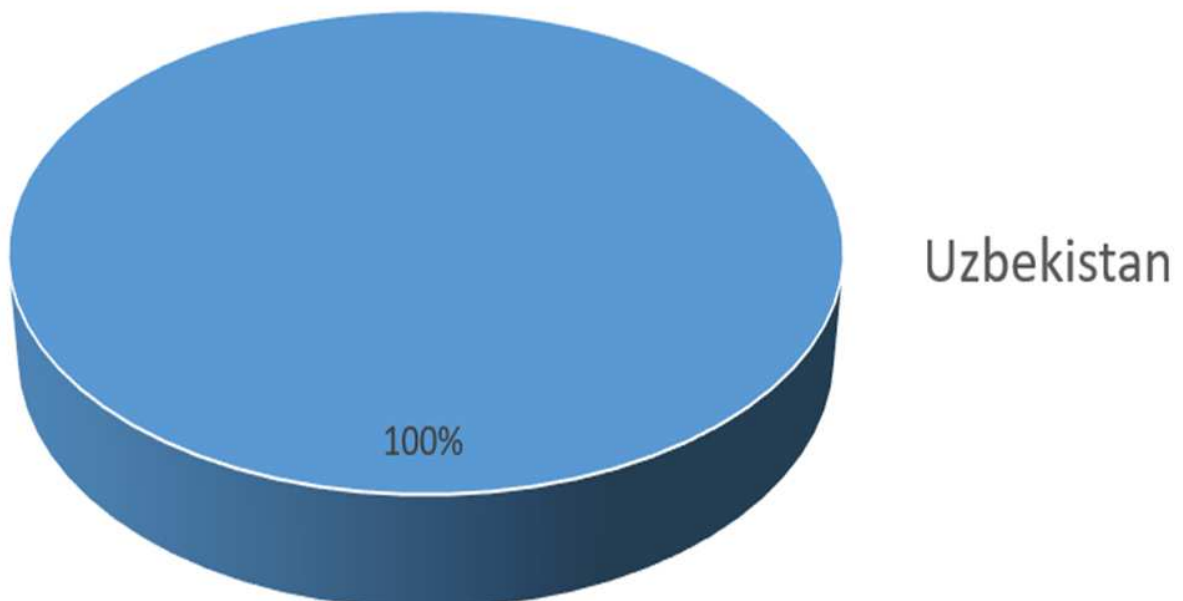
### General Information

We received 274 answers to our questionnaire:

Uzbekistan – 274 responses

#### **1. The question “Which country are you from?”**

The answers and opinions of Uzbekistan team members about the IET Center and Active Learning Classrooms will be analyzed. Overall, 274 respondents from 3 universities attended in the questionnaire. They are Tashkent Information Technology Universities, Tashkent State University of Economics, Andijan Machine Building Institute.



**Figure 1 – Country of respondents**



## 2. The question "Which Center are you evaluating?"

The survey involved 274 trained and other teachers. 100% respondents are from Uzbekistan. The structure of respondent country can be viewed in more detail in Figure 2.

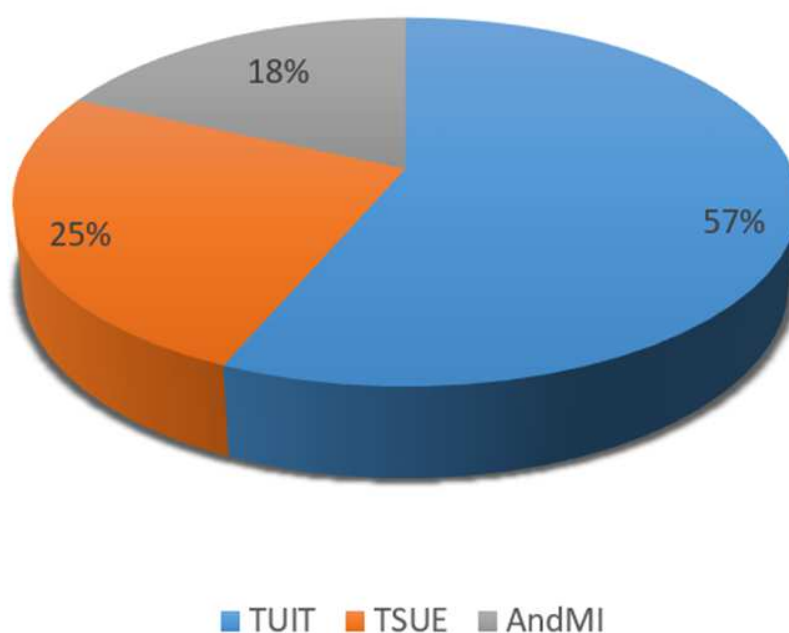


Figure 2 – Respondents by Center

## 3. The question "Overall, please tell us how well structured the Centers were - "1" means not at all well-structured, and "5" means extremely well- structured?"

228 respondents from 3 universities attended in the questionnaire. According to the results of the responses (Fig.3), almost all participants of the IET Center and Active Learning Classrooms were satisfied with the structure of the training:

- Not at all well-structured 0% (0),
- Not bad structured 0% (0),
- Normal structured 0,9%(2),
- Good structured 31,4% (72)
- Extremely well-structured 67,2% (154)

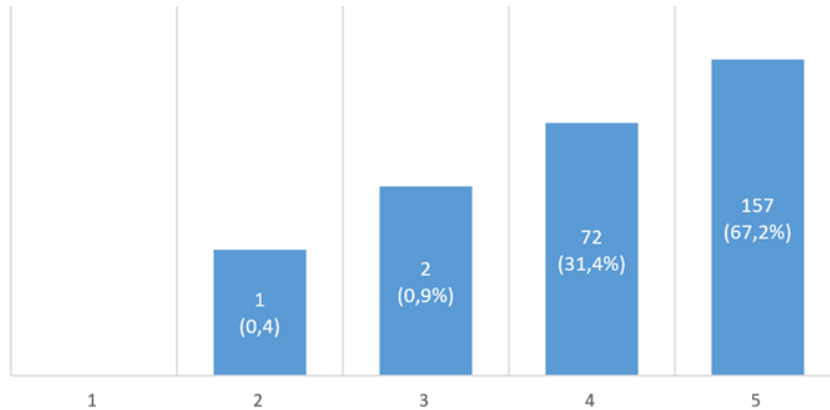


Figure 3 - Histogram of answers to the question, "Please tell us how you rate the quality?"

**4. The question "Please tell us how you rate the quality using a 1 to 5 scale where "1" means very bad, and "5" means extremely good."**

Analysis of the answers to this question showed (Fig.4) that answers from 228 respondents of the IET Center and Active Learning Classrooms indicated that the largest number of them evaluate extremely good (67,2% of all answers) and good (31,4%):

- Very bad 0% (0),
- Not bad 0,9% (9),
- Normal 1,8%(4),
- Good 32,5% (74),
- extremely good 64,9% (148).

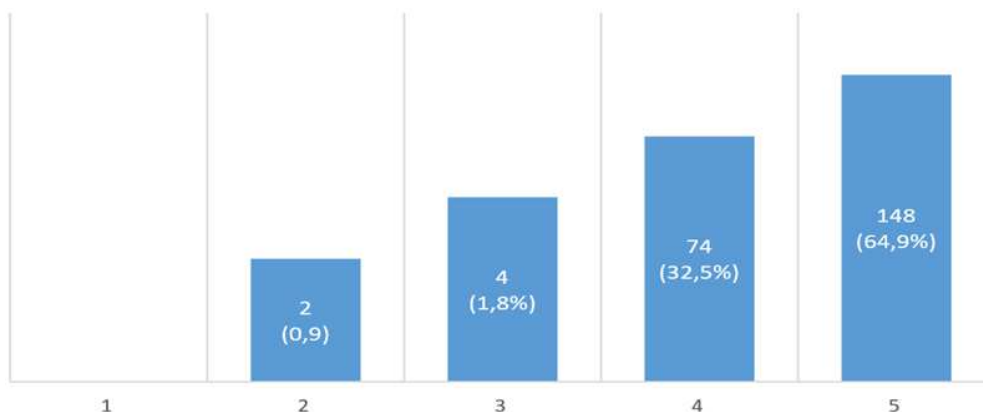


Figure 4 - Histogram of answers to the question, "Please tell us how you rate the quality?"





**5. The question "Now we have a few questions about the usage and the objectives of the Centers. Please tell us your level of agreement with the following statements about the Center, using a 1 to 5 scale, where "1" means you strongly disagree and "5" means you strongly agree. If a statement does not apply to you, please select "NA."**

From this question, the objectives of the Centers and Active Learning Classrooms were clarified in detail. Total items are 13, and respondents have graded using a 1 to 5 scale, which "1" means you strongly disagree, and "5" means you strongly agree. Even there was a chance the selection of "NA" if a statement does not apply. We can see the results in the table which is given below.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A
The objectives were met			<b>3</b>	<b>82</b>	<b>99</b>	<b>3</b>
Follow-up actions resulted from the Center			<b>2</b>	<b>66</b>	<b>115</b>	
It is clear for what the Center is needed			<b>3</b>	<b>75</b>	<b>105</b>	
The right people were addressed by the creation of the Center			<b>2</b>	<b>82</b>	<b>99</b>	
The technical equipment has been explained sufficiently			<b>5</b>	<b>84</b>	<b>96</b>	<b>2</b>
The technical equipment has been set up			<b>3</b>	<b>89</b>	<b>88</b>	<b>2</b>
The technical instruments are			<b>2</b>	<b>96</b>	<b>83</b>	<b>2</b>



being used in the institution						
The use of technical equipment can be explained to the users			<b>1</b>	<b>96</b>	<b>85</b>	<b>3</b>
The equipment provided is exactly what was needed in the Institution to advance the learning processes			<b>2</b>	<b>97</b>	<b>80</b>	<b>4</b>
The equipment provided is being used in an innovative way			<b>1</b>	<b>95</b>	<b>86</b>	<b>2</b>
The Center is positioned well inside the institution.			<b>3</b>	<b>87</b>	<b>93</b>	<b>1</b>
The students profit from the new innovative teaching possibilities.			<b>1</b>	<b>94</b>	<b>87</b>	<b>2</b>
The Centers objectives were clearly communicated			<b>3</b>	<b>80</b>	<b>101</b>	<b>3</b>

**Figure 5 - Table of answers to a few questions about the objectives of the Center.**



According to the table, most of the Centers and Active Learning Classrooms objectives were a match with the requirements of participants (Fig.5). However, in some questions, respondents preferred to be in neutral and N/A positions. For instance, in the questions about objective, follow-up actions, purpose, and addressing people of the training, as well as relating to technical issues.

**6. The question “We would also like your feedback on the outcome of the Center. Please tell us your level of agreement with the following statements using a 1 to 5 scale, where 1 means you strongly disagree and 5 means you strongly agree.”**

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	N/A
The Center will have an impact			6	80	98	1
The Center is useful for the teaching at the Institution			2	72	111	
The Center will help teachers to attract better students to the institution				87	93	3
The Center will help teachers to create innovative teaching inside the institution				90	91	1
The Center helps me to do more interesting classes			2	92	89	1



The Center helps me to please the needs of my students better			3	72	107	1
The Center delivers exactly the result that I expected when we started the project			2	90	89	3
The Center makes my life as a teacher easier				95	87	3
The Center makes teaching more fun			1	93	88	1
The Center makes students learn better			2	83	98	
The students seem to have more fun during the classes using the Center for Innovation			1	86	97	1

**Figure 6 - Table of answers to feedback on the outcome of the Center.**

**7. The question “If the Center is not what you expected, what would you have expected?”**

The total answers were 20.

- I don't (5)
- I do not know (3)



- Center is good as I expected (10).
- N/A (1)
- Nothing (1)

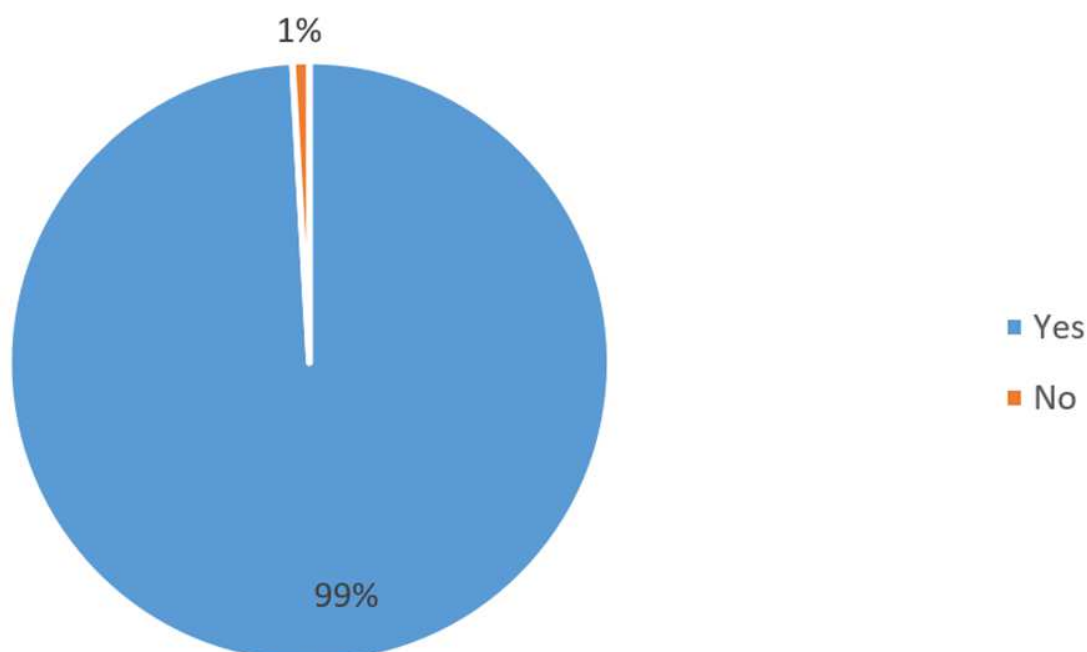
**8. The question “If you disagree with any of the point above in No.5 or 6, please comment here mentioning the reasons.”**

The total answers were 17.

- Nothing (3)
- No (4)
- No, there is no point I disagree with (2)
- None (3)
- Literature was not recommended (1)
- Not (4)

**9. The question “Was the Center created on time.”**

Out of 223 responders 99 % choose YES and 1% NO.



**Figure 7 - Answers to the question “Was the Center created on time?”**



### 10. The question “Did you get the chance for comments and criticism?”

Out of 222 responders 99% choose YES and 2% NO.

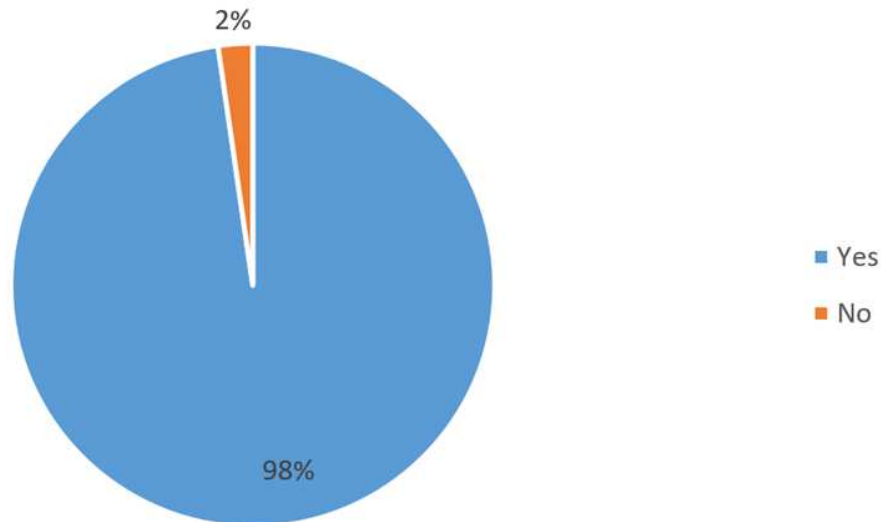
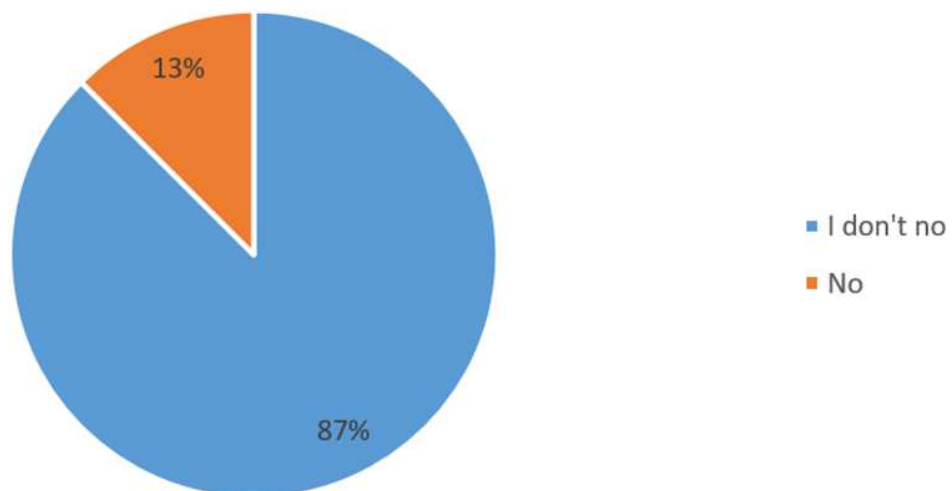


Figure 8 - Answers to the question “Did you get the chance for comments and criticism?”

### 11. The question “If the answer to question 10 was no, what comments or criticism would you have on the Center?”

Out of 16 responders 87 % chose I don't know and 13% NO.










**Figure 9 - Answers to the question “If the answer to question 10 was no, what comments or criticism would you have on the Center?”**

## **12. The question “Any other comments?”**

The total answers were 74.

-  no comments (4)
-  no (4)
-  good luck (30)
-  good (24)
-  I love TUIT (12)

## **CONCLUSION**

This report is an evaluation of the created Centers for Innovative Educational Technologies, taking into account the specific conditions of Uzbekistan in the framework of the HiEdTec project. The questionnaire is a methodology to evaluate the quality of work and results.

### **WE CAN CONCLUDE FROM ANSWERS THAT:**

- The Centers are well structured;
- The objectives of the Centers are strongly agreed;
- The Centers is very relevant to the policies of our country at the moment;
- The technical equipment of the center is suitable for achieving the set goal;
- The Center is positioned well inside the institution.