



**Electronics and Telecommunication Institute
Kyrgyz State Technical University named after I. Razzakov
International Telecommunication Union**



«CONNECT SCHOOLS» PROJECT

EVALUATION REPORT

of the short term courses

«COMPUTER SKILLS AND KNOWLEDGES IN INTERNET AND WEB-TECHNOLOGIES»

Training for trainers

04.05.2015- 08.05.2015

Teachers Staff:

J.Barakova

signature

A.Sarybaeva

signature

Course manager:

A.Tutlis

signature

Bishkek - 2015

I. GENERAL INFORMATION

PROJECT	«TRAINING FOR TRAINERS»
Main idea:	Increased access to information and communication technologies, training in modern information technologies and improvement of rural schools teachers' skills.
Objective:	To organize short term courses for teachers in rural schools on info communication and web-technologies.
COURSE NAME:	Short term courses «Computer skills and knowledge in internet and web technologies»
Main idea of course:	<p>The purpose of this course is to teach the teachers in rural schools to operate productively in the information space of the Internet to achieve their communication, technical skills during the designing sites.</p> <p>Teaching teachers in rural schools the basics of working with information resources on the Internet, the basics of markup language HTML, methods of using CSS, the basics of building sites on the Internet.</p> <p>The program content is oriented on the formation of experience in the use of Internet technologies for the professional tasks and skills development of web-sites:</p> <ol style="list-style-type: none"> 1) introduce the types of web sites, their functional, structural and technological features; 2) build skills of elementary design, construction, placement and maintenance of the web site; 3) give primary skills of programming in HTML, and the basis of CSS; 4) introduce the basics of web design; 5) build skills to work in teams with complex web projects.
Expected results of training:	<p>As a result of this course participants should:</p> <p>to know:</p> <ol style="list-style-type: none"> 1. principles and structure of the "World Wide Web", the presentation of information on the Internet; 2. kinds of websites; <p>be able to:</p> <ol style="list-style-type: none"> 1. find , save and organize the necessary information from the network using available technologies and software; 2. have the skills to work with different browsers (IE, Opera, Firefox, Chrome , etc.) and finding information via the Internet ; 3. design, produce and host a Web site ; 4. program in HTML; 5. use in creating web pages the basic principles of web design , CSS, and to analyze and formulate its own position in relation to their structure, content, design and functionality; <p>have skills:</p> <ol style="list-style-type: none"> 1. means necessary to design, create, organize and update the website. <p>Successful learning in this course provides a solid foundation for further study of web-based technologies.</p>

DATE OF COURSE:			
<i>Start Date:</i>		<i>04.05.2015</i>	
<i>The End Date:</i>		<i>08.05.2015</i>	
<i>Duration:</i>		<i>5 days</i>	
<i>Evaluation Date:</i>		<i>12.05.2015</i>	
Project Manager:	<i>Director of Institute</i>	<i>signature</i>	Prof. B.Nurmatov
Course Staff :	Course Manager	<i>signature</i>	A. Tutlis
	Ph.D	<i>signature</i>	J.Barakova
	Senior Lecturer	<i>signature</i>	A.Sarybaeva

II. COURSE CONTENT

2.1. Technical environments for training

Organized short term courses for schools teachers of Chui region of the Kyrgyz Republic. Classes were held in Institute of Electronics and Telecommunications of Kyrgyz State Technical University named after I. Razzakov that has a modern material and technical base, equipped with multimedia classrooms and a computer with Internet access (*Fig.1*).



Fig. 1. Course participants

2.2. List of Participants

There were 13 rural teachers and all of them were women (*Table 1, Fig.2*).

Table 1. The list of participants

№	District/village	School	Name	
1	Alamedin	Secondary school named after A.Suyumbaev	Ahmatalieva Venera	Teacher on Informatics
2	Panfilov	Secondary school named after A.Tilekeev	Abdrasulova Venera	Teacher on Informatics
3	Bishkek city	Secondary school №24	Aidarkanova Aida	Teacher on Informatics
4	Bishkek city	Secondary school №89	Ashyralieva Gulzat	Teacher on Informatics
5	Bishkek city	Secondary school №55	Baiturova Kenzhegul	Teacher on Informatics
6	Panfilov	Secondary school named after A.Raimkulov	Zhekshenbekova Zhibek	Teacher on Informatics
7	Bishkek city	Secondary school №88	Kadyrbek k. Nazgul	Teacher on Informatics
8	Panfilov	Secondary school named after K.Zhumataev	Kozukeeva Nazira	Teacher on Informatics
9	Bishkek city	Secondary school named after B.Alymov	Matmyrzaeva Roza	Teacher on Informatics
10	Bishkek city	Secondary school №74	Nazaralieva Umut	Teacher on mathematica
11	Alamedin	Secondary school named after o.Tursumatov	Salmanova Zhyldyz	Teacher on Informatics
12	Bishkek city	Secondary school №58	Tilekmatova Elzat	Teacher on Informatics
13	Alamedin	Secondary school named after A.Zhumagulov	Tolomusheva Aida	Teacher on Informatics

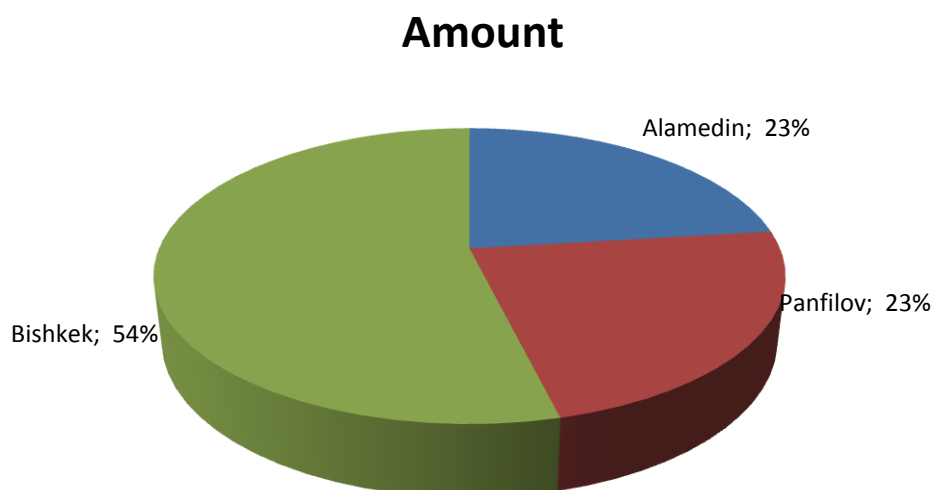


Fig. 2. Number of participants

2.3. Course program

The course program is calculated for 5 days. The contents of the course is given in *Table 2*.

Table 2. The content of the course

1st day		
Time	Themes	Used materials and responsible person
09.00-09.20	Welcoming, opening training	Presentation
09.20-10.00	Introduction to subject	Presentation
10.00-10.30	Coffee Break	
10.30-12.30	Introduction to Internet <ul style="list-style-type: none"> – What is the Browser (theory)? – How to work with browser (practice)? – Change browser settings? – Searching information in Internet – Copy information to computer. – Classification of sites – What is the Email? – Email service. Creating email. Sending and receiving messages. Attach file to the letter. Provider. <ul style="list-style-type: none"> – What is the provider? – Provider in Kyrgyz Republic 	Presentation
12.30-13.30	<i>Lunch time</i>	
13.30-14.00	Review of daily materials Task	Used materials Video lessons
14.00-15.00	Web page, Introduction to HTML technologies <ul style="list-style-type: none"> – What is Web page? – What is the Hyperlink? – How to create Hyperlink? – Creating web-page in text editor MS Word – Creating hyperlink in text editor – Classification hyperlinks 	Presentation Video lessons
15.00-15.30	Coffee Break	
15.30-16.50	Review of daily materials Practice tasks: <ul style="list-style-type: none"> – Create web-page in text editor MS Word – Create several copies web-pages – Create hyperlink 	Used materials Video lessons
16.50-17.00	Blank form: Proposes for the next lessons, questions	

2 nd day		
09.00-09.30	Previous days' materials review	
09.30-10.30	<ul style="list-style-type: none"> – Main structure of HTML documents – What is a “tag”, attributes <ul style="list-style-type: none"> – title and paragraphs in HTML pages(<p>,<h>) – Tags and attributes for list and marking HTML pages (,) – TAG and creating hyperlinks(<a>) 	Presentation Video lessons
10.30-11.00	Coffee Break	
11.00-12.30	Practice Tasks : <ul style="list-style-type: none"> – Create 1-HTML page – Use tags: titles, paragraphs – Creation marking lists – Create link to the another page – Insert images into page – Create links to the images 	Presentation
12.30-13.30	<i>Lunch time</i>	
13.30-14.00	Practice discussion	
14.00-15.00	TAG and (proposition) <ul style="list-style-type: none"> – TAG and table(<table>) – Attributes of table TAG (border, color) – Tag specify the font settings and his attributes (,
) – Tag defining color (<color>) – Insert images into pages () – Create link from the image (<a>) 	Video lessons
15.00-15.30	Coffee Break	
15.30-16.50	Practice review Task: <ul style="list-style-type: none"> – Create table in HTML page – Change settings in the table – Change image settings – Create link using image 	Presentation
16.50-17.00	Blank form: Proposes for the next lessons, questions	Used materials
3 ^d day		
09.00-09.30	Previous days' materials review	
09.30-10.30	Cascade Style Sheets (CSS) <ul style="list-style-type: none"> – Introduction to CSS – Types Selection – Selector of tags – ID Selectors – The class selector – Group selector 	Presentation
10.30-11.00	Coffee Break	

11.00-12.30	Practice review Task: <ul style="list-style-type: none"> – Create file style.css – Connect style.css to web-page – Using selectors 	Used materials Video lessons
12.30-13.30	<i>Lunch time</i>	
13.30-14.00	Practice discussion	
14.00-15.00	Work with styles <ul style="list-style-type: none"> – Properties Font-family? – Properties Font-size – Properties Font-color – Properties Font-style – Properties Font-weight – Text-decoration Work with text <ul style="list-style-type: none"> – Properties Text-align. – Properties Text-indent ? Work with background <ul style="list-style-type: none"> – Properties Background 	Presentation Video lessons
15.00-15.30	Coffee Break	
15.30-16.50	Practice review Tasks: <ul style="list-style-type: none"> – Create of TAG selectors 	Presentation
16.30-17.00	<i>Blank form: Proposes for the next lessons, questions</i>	Использованные материалы
4th day		
09.00-09.30	Previous days' materials review	
09.30-10.30	Macromedia Dreamweaver HTML Editor <ul style="list-style-type: none"> – Download of Macromedia Dreamweaver – Main editor interface. Tools and window properties – Creating web-setting – Work with tables – Work with hyperlinks 	Presentation
10.30-11.00	Coffee Break	
11.00-12.30	Practice review Task: <ul style="list-style-type: none"> – Create web-page with Macromedia Dreamweaver editor – Create table, div – Create link to another page 	Presentation Video lessons
12.30-13.30	<i>Lunch time</i>	
13.30-14.00	Practice discussion	
14.00-15.00	Macromedia Dreamweaver (contd.) <ul style="list-style-type: none"> – Connection file style.css into web-page – Work with styles – Stylish classes and work with it – Work with web-forms 	Used materials

15.00-15.30	Coffee Break	
15.30-16.50	Practice review Task: <ul style="list-style-type: none"> – Macromedia Dreamweaver Editor attaching style.css on the web page – Work with class – Create web-form – (text row, checkbox, button and so on) 	
16.50-17.00	Blank form: Proposes for the next lessons, questions	
5th day		
09.00-09.30	Previous days' materials review	
09.30-10.30	Domain and Hosting <ul style="list-style-type: none"> – What is domain? – What is hosting? – Free hosting – Replace sites into hosting – Manage sites in hosting 	Presentation
10.30-11.00	Coffee Break	
11.00-12.30	Practice review Task: <ul style="list-style-type: none"> – Register in the free hosting – To get domain. – Loading sites in domain – Work with program “total commander” 	
12.30-13.30	<i>Lunch time</i>	
13.30-15.00	Testing	
15.00-16.00	Rewarding the Sertificate	

There were 2 Coffee Breaks where participants could ask teachers and discuss about class and exchange experience between each other.

All practical and theoretical classes' tutorials were printed and provided to course students, also were shared soft copies of video class materials (*Fig. 3*).







Fig. 3. Participants in the classroom

For check of level of knowledge of participants and level of carrying out of courses have spent questioning of participants in the beginning and in the end of a course (*Fig. 4*).



Fig. 4. Questionnaire survey

The results of the survey are presented in *Tables 3 and 4*.

Table 3. Results of the survey at the beginning of the course

N	Name	Have you participated in previous courses held within the project "School Connect"		Specify what browsers you use most often?					Have you tried creating websites?		Did you work with the program Adobe Dreamweaver?		Have you studied the basics of HTML?		Have you studied the basics of CSS?	
		Yes	No	Opera	Internet Explorer	Mozilla Firefox	Google Chrome	do not use the Internet	Yes	No	Yes	No	Yes	No	Yes	No
1	Ahmatalieva Venera		+	+						+		+		+		+
2	Abdrasulova Venera		+		+					+		+		+		+
3	Aidarkanova Aida		+	+						+		+		+		+
4	Ashyralieva Gulzat		+	+						+		+		+		+
5	Baiturova Kenzhegul		+	+						+		+		+		+
6	Zhekshenbekova Zhibek		+		+					+		+		+		+
7	Kadyrbek k. Nazgul		+		+					+		+		+		+
8	Kozukeeva Nazira		+		+					+		+		+		+
9	Matmyrzaeva Roza		+		+					+		+		+		+
10	Nazaralieva Umut		+	+						+		+		+		+
11	Salmanova Zhyldyz		+	+						+		+		+		+
12	Tilekmatova Elzat		+	+						+		+		+		+
13	Tolomusheva Aida		+	+						+		+		+		+
		0%	100%	61,5%	39,5%	0%	0%	0%	0%	100%	0%	100%	0%	100%	0%	100%

The results of the questionnaire to rate indicate that:

- 1) almost all of the participants do not took part in previous courses held within project "Connect a School";
- 2) almost all of the participants use the Internet;
- 3) 100% of the participants previously was't engaged in creation sites;
- 4) almost all of the participants do not know the technology of creating websites, i.e materials of the ongoing course.

Comment Book was created for course participants. Each student should leave opinion about course and give own suggestion according course, teachers, teaching methods and organization of training.

Table 4. Results of the survey at the end of the course

№ п/п	What topics are not necessary for you, and what topics are you more like and want?	Are all the topics of the course have been passed?	You enjoyed the level of the course? Your opinion about the course	Do you want to participate in the course of the next level? Ifso, onwhat?
1	All themes are interesting	Yes	I want to express gratitude to organizers of course	Yes, I want to participate in courses next level
2	All themes are interesting	Yes	The course is held at a high level, I would like to express gratitude to the trainer	Yes, I want to participate on computer graphics
3	All themes are interesting and useful	Yes	I want to note the excellent teaching quality of teachers.	Yes, I want to participate in courses on programming.
4	All themes are necessary and actual	Yes	I want to express gratitude to trainers of the course	Yes, I want to participate on courses of increase of qualifications
5	All passed topics we really need	Yes	I want to note the excellent teaching quality of teachers.	I want to participate in future courses
6	All passed topics needed	Yes	The technique of their teaching and individual approach to everyone was pleasant	Yes, I want to participate on computer graphics
7	All passed topics interesting and needed	Yes	The technique of their teaching and individual approach to everyone was pleasant	Yes, I would like to participate in courses on PHP, MySQL

8	All themes were new to me	Yes	Course have conducted at high level, really liked	Yes, I would like to participate in courses on DataBase
9	All themes are interconnected with each other	Yes	I wish successes and continuation of courses	Yes, I would like to participate in courses on internet programming
10	All themes are very necessary to us	Yes	I have received a lot of useful information	Yes, I would like to participate in courses on programming
11	All passed topics needed	Yes	Such courses are necessary for rural schools	Yes, I would like to participate in courses on programming languages
12	All themes need	Yes	The technique of their teaching and individual approach to everyone was pleasant	Yes, I would like to participate in courses on programming
13	All themes are very necessary to us	Yes	We have received a lot of useful information on Internet technologies	Yes, I want to participate in all courses on programming

As shown by the results of the questionnaire after the course, participants noted the high level of courses, thanked the organizers of the course and wish to participate at courses of improvement of qualification of rural schools teachers.

III. COURSE TEST RESULTS

3.1. Testing exam

On the end of course participants was tested according passed tutorials. The results of testing are presented in *Table 5* and a *Fig.5*.

Table 5. Exam Sheet

Exam Sheet № _____

Exam Data: 08.05.2015

N	First, Surname	Number of correct answers	Number of incorrect answers	Percent age of correct answers	Grade
1	Ahmatalieva Venera	23	2	92%	4
2	Abdrasulova Venera	20	5	80%	4
3	Aidarkanova Aida	22	3	88%	4
4	Ashyralieva Gulzat	21	4	84%	4
5	Baiturova Kenzhegul	21	4	84%	4
6	Zhekshenbekova Zhibek	19	6	76%	4
7	Kadyrbek k. Nazgul	21	4	84%	4
8	Kozukeeva Nazira	20	5	80%	4
9	Matmyrzaeva Roza	19	6	76%	4
10	Nazaralieva Umut	24	1	96%	5
11	Salmanova Zhyldyz	24	1	96%	5
12	Tilekmatova Elzat	15	10	60%	3
13	Tolomusheva Aida	23	2	92%	4
	Average	21	4	84%	4

Total: 13

<i>"excellent"</i>	<i>2</i>	<i>15%</i>
<i>"good"</i>	<i>10</i>	<i>77%</i>
<i>"satisfied"</i>	<i>1</i>	<i>8%</i>
<i>"notsatisfied"</i>	<i>0</i>	<i>0%</i>

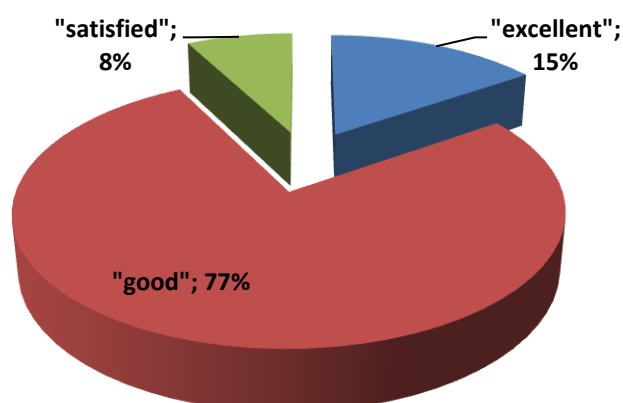


Fig. 5.

On the end of class all participants were tested by test program for knowledge level checking where questions relate with program topics.

Test program was installed on every participant's computer and test time was 40 min. After completing test everybody could see own results automatically. Here test paper number, name, surname of tested person, questions and answer, scores and finally amount of correct answers, and its percentage representation and grade. Test result view:

ЭЛЕКТРОНИКА ЖАНА ТЕЛЕКОММУНИКАЦИЯЛАР ИНСТИТУТУ

ТЕСТТИН ПРОТОКОЛУ №__

Фамилиясы, аты,
атасынын аты

Назаралиева Умут

Датасы

08.05.2015

Оқулган курс

Web-технологиялар

№	Суроо жана ага берилген жооп	Баллы
1	Тексттин астын чыгуу үчүн туура жазылган эрежени аныктагыла <i>p (text-decoration: underline;)</i>	1
2	Баш сөздүн түсүн аныктоого арналган селекторду аныктагыла <i>h1 { color: #FF0000; }</i>	1
3	Туура жазылган электрондук почтага шилтемени көрсөткүлө <i> E-mail </i>	1
4	Вэб-хостинг деген эмне? <i>Провайдердин серверинде сайттын жайгаштыруу кызматы.</i>	1
5	Класс сурот аркылуу шилтеме жасоо тегин туура жазылган? <i> </i>	1
6	Блокту тузуу үчүн класс тег колдонулат? <i><div></i>	1
7	Стиллдеги каскаддык таблицасын документке тирмектеп келтирмеңиз бар? <i>з</i>	1
8	Суроттун өлчөмүн аныктоо үчүн класс атрибуттар колдонулат? <i>width, height</i>	1
9	Суротко рамка коюу үчүн класс атрибут колдонулат? <i>border</i>	1
10	Стиллдеринг каскаддык таблицасында ар бир эреже класс болуштордон турат? <i>селектор жана аныктоо</i>	1
11	CSS документинде тег менен класс касиетин класс балгн менен ажыратылат? <i>;</i>	0
12	Сайттын класдык түрлөрү бар? <i>статикалык жана динамикалык</i>	1
13	Браузер деген эмне? <i>Веб-сайттарды көрүү үчүн арналган программалык жабдуу</i>	1
14	Мета-тегдер веб-баракчалык класс болушунда жайгашат? <i><head> ... </head></i>	1

№	Суроо жана ага берилген жооп	Баллы
15	Тизмелен тузууга арналган тегдерди аныктагыла , 	1
16	Шрифттин өлчөмүнүн чечим бирдиктерин корсоткула Баары туура	1
17	HTML документи менен CSS документин кайсы тегдин жардамы менен байланыштырабыз? <link>	1
18	Эң популярдуу браузерлер болуп эсептелишет: Internet Explorer, Mozilla Firefox, Google Chrome	1
19	Дүйнөлүк жоргомуш желесине жайгаштырылган гипертексттик документтер эмне деп аталат? веб-баракчалар	1
20	Меню сайттарын тузуу учун тизмелен колдонууга болобу? болот	1
21	HTML баракчасынын баш соңдор сайтасынын баш соңду аныктоо учун кайсы тег колдонулат? <title> ... </title>	1
22	Фондук сураттуу горизонталдык жана вертикалдык турдо кайталоо учун кайсы менен колдонулат? repeat-x жана repeat-y	1
23	Туура жазылган кодировканы аныктоочу тегди аныктагыла <meta http-equiv="content-type" content="text/html; charset=utf-8">	1
24	Баш соңду туздоо учун кайсы атрибут колдонулат? align	1
25	HTML баракчасынын структурасы кайсы бөлүктөн турат? <head> ... </head> <body> ... </body>	1

Туура жооптун саны	24
Туура эмес жооптун саны	1
Туура жооптун пайызы	96%
Баасы	5



Мугалимдин фамилиясы, аты, атасынын аты _____

On the end of course each participant express his own opinion about course and give own suggestion according course, teachers, teaching methods and organization of training. Teachers noted that courses were very useful and informative.

According to the test results the course participants receive Certificates (*Fig. 6-7*).



Fig. 6. Delivery of Certificates



Fig. 7. Course participants