

## МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ КЫРГЫЗСКОЙ РЕСПУБЛИКИ КЫРГЫЗСКИЙ ЭКОНОМИЧЕСКИЙ УНИВЕРСИТЕТ

им. М.Рыскулбекова

Наименование дисциплины и код: **Computer science**, groups VED-1-21 TA-MF-1-21, UBA-1-21

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Количество	8 credits/ 120 hours
кредитов:	o credits/ 120 flours
Дата:	2021-2022, I, II semester
Цель и задачи курса	This course provides an overview of the popular components of the Microsoft Office suite: Word, Excel, Access, and PowerPoint. The basics of each program will be covered. It is not the objective of this course to build proficiency in any one of the application program.  Goals:  • To have a fundamental and working knowledge of Microsoft Office 2017  • Integration of all three Microsoft Office programs to create larger and more detailed projects
Описание курса	The widespread application of Computer Science, as embodied in the tools and techniques for gathering, manipulating, analyzing and disseminating information, made possible because of dramatic improvements in computer and telecommunications technologies, has significantly changed society.  A large proportion of business transactions is performed over computer networks. Multi-media computers have had a significant impact on the way in which people learn and on the way they seek entertainment. Moreover, the increased integration of computer and telecommunications technology, exemplified by the Internet and associated technologies, has led to an increased globalization of the world economy.  Computer Science, including the Internet, has significantly changed personal communication, commerce and the way in which academic research is conducted. Moreover, continuing developments in this field, including the increased use of mobile networks and the further improvement and decreasing cost of computer hardware, mean that the world has not seen the last of these changes.  There are separate one-credit courses that can be taken to increase skill development in the individual programs.  Introduce the fundamentals of computers, technology, and related terminology.  Introduce the fundamentals of computers, technology, and related terminology.  Introducion to three Microsoft Office 2017 programs (MS Word, MS Excel, MS PowerPoint and MS Access), with Windows 7  Provide lecture to introduce, explain, and recommend proper methodology when working with Microsoft Office products, and how it relates to the business environment.
Пре реквизиты	using computers. PRE-REQUISITES OF THE SYLLABUS
ттре реквизиты	TRE-REQUEITES OF THE STEERDUS

Пост реквизиты	Any person with a good grasp of the Secondary Education Certificate (SEC) Information Technology or Mathematics syllabuses, or their equivalent, should be able to pursue the course of study defined by this syllabus. However, successful participation in the course of study will also depend on the possession of good verbal and written communication skills.  The skills that students are expected to have developed on completion of this syllabus have been grouped under three headings:  (I) Knowledge and Comprehension;  (II) Application and Analysis;  (III) Synthesis and Evaluation.					
Компетенции	Knowledge and Comprehension The ability to: - identify, recall, and grasp the meaning of basic facts, concepts and principles;  select appropriate ideas, metals, compare and site examples of facts.					
	<ul> <li>select appropriate ideas, match, compare and cite examples of facts, concepts, and principles in familiar situations;</li> <li>explain phenomena in terms of generally applicable principles.</li> <li>Application and Analysis</li> <li>The ability to:</li> </ul>					
	<ul> <li>use facts, concepts, principles and procedures in unfamiliar situations;</li> <li>transform data accurately and appropriately and use common characteristics as a basis for classification;</li> </ul>					
	<ul> <li>- identify and recognise the component parts of a whole and interpret the relationships between those parts;</li> <li>- identify causal factors and show how they interact with each other; infer, predict and draw conclusions;</li> </ul>					
	- recognise the limitations and assumptions of data gathered in an attempt to solve a problem Synthesis and Evaluation					
	The ability to: - make reasoned judgements and recommendations based on the value of ideas and information and their implications;					
	<ul> <li>use the computer and computer-based tools to solve problems;</li> <li>justify the appropriate application of techniques of problem-solving;</li> <li>select, justify and apply appropriate techniques and principles to develop data structures and application programs for the solution of a problem.</li> </ul>					
Попитика куроа	The syllabus aims to:					
Политика курса	<ol> <li>develop a range of cognitive skills, including critical thinking skills;</li> <li>develop an understanding of the components, the architecture and the organisation of a computer system;</li> </ol>					
	3. equip students with the knowledge necessary to make informed decisions about the selection of components of computer systems;					
	<ul> <li>4. develop an understanding of the problem-solving process;</li> <li>5. equip students with skills to create algorithms to solve problems;</li> <li>6. develop skills to write correct programs to solve problems;</li> <li>7. develop an understanding of the concepts of software engineering;</li> </ul>					

#### STUDENT CONDUCT

Students will be prompt and on time for class.

- If you are going to be late or absent please notify me or the Adult Education Office.
- If you need to leave early please inform me or the Adult Education Office before class.
- Skipping class is not permitted and is punishable by the failure of the lab exercise for that class session and absenteeism for that class session.
- Please be respectful to your fellow classmates by not talking during tests.
- Cell Phones must be switched to vibrate or turned off during class. If you must answer your phone please excuse yourself quietly and leave the classroom.

# **Методы** преподавания:

The successful implementation of this computer science syllabus will require to have computers which are standard main equipments

for this subject. Alongside computers other computing tools and applications software have been identified and are indicated in this syllabus where they will be needed. Various ICT resources for the implementation of computer science competency based curriculum to preserve its nature of being most likely practical scientific subject are the following:

- 1. Computer laboratory: One computer for one student. It is recommended to school to explore the available technologies in market to minimize the cost of laboratory equipment.
- 2. Projectors: Presentation is the key element of the competency based curriculum where student's works, teaching materials will be mostly displayed using projector for computer science content.
- 3. Laptops per teacher: Teachers needs to prepare learning and teaching materials, organize content so as to use classroom time effectively. One laptop per teacher is required.
- 4. Softwares: In most cases skills expected from this competency based curriculum do not rely on any version of operating system or any version of application software, however the latest version of the most softwares at the time of implementation will be used.

#### Форма контроля знаний

#### **GRADING**

University report student achievement in terms of the following grades:

Grade			Interpretation
A	85-100	<b>'</b> 5'	Excellent achievement
В	70-84	<b>'4'</b>	High achievement
C	50-69	<b>'3'</b>	Satisfactory achievement
D	40-49	'2'	Limited achievement

#### Литература: Основная Дополнительная

- 1. Andonie, R. and Dzitac, I. 2010. How to write a good paper in computer science and how will it be measured by ISI Web of Knowledge. International Journal of Computers, Communications & Control (4):432-46.
- 2. Fortnow, L. 2009. Viewpoint: Time for computer science to grow up. Communications of the ACM 52(8):33.
- 3. Fransen, J.L. 2012. Parsing citations using Visual Basic for Applications: A step-by-step guide. [Internet]. [Cited November 19, 2012]. Available from: http://purl.umn.edu/127017

	4. Goodrum, A.A., McCain, K.W., Lawrence, S., and Lee, G.C. 2001. A								
	citation analysis of computer science literature. Information								
	Processing & Management 37(5):661-75.								
	5. Hoffmann, K. and Doucette, L. 2012. A review of citation analysis								
	methodologies for collection management.								
	http://crl.acrl.org/content/early/2011/07/21/crl-254.short								
	6. Jeffryes, J. and Lafferty, M. 2012. Gauging workplace readiness:								
	Assessing the information needs of engineering co-op students.								
	http://www.istl.org/12-spring/refereed2.html								
	7. Kayongo, J. and Helm, C. 2012. Relevance of library collections for								
	graduate student research: A citation analysis study of doctoral								
	dissertations at Notre Dame. College & Research Libraries 73(1):47-								
	6.								
	8. Musser, L.R. and Conkling, T.W. 1996. Characteristics of engineering								
	citations. Science & Technology Libraries 15(4):41-9.								
CPC									
Примечание.									
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### Календарно-тематический план распределения часов с указанием недели, темы

№	Дата	Тема	Кол-во час	Литература	Подготовительные вопросы по модулям
1.	7/09	Getting st6arted with Windows	2	[1],[3],[4]	Memory, storage devices and media
2.	8/09	Hardware, input, output storage devices	2	[1],[2],[4]	• show understanding of the difference between:
3.	14/09	System software. Operating system. Language translators Security, privacy and data integrity	2	[1],[2],[3]	primary, secondary and off-line storage and provide examples of each, such as: primary: Read Only Memory (ROM), and Random Access Memory (RAM) secondary: hard disk drive (HDD) and Solid State Drive (SSD); off-line: Digital Versatile Disc (DVD), Compact Disc (CD), Blu-ray disc, USB flash memory and removable HDD
4.	15/09	Getting Familiar with MS Word 2010	2	[1],[3],[4]	Operating systems • describe the purpose
5.	21/09	The title bar. The ribbon. The ruler. The text area	2	[1],[2],[5]	of an operating system (Candidates will be
6.	22/09	The vertical and horizontal scroll bars.	2	[1],[2],[5]	required to understand the purpose and

delete , bold, underline, italicize	7.	28/09 29/09	Create sample Data and select Text Microsoft Word 2010 basic feature. Type, backspace,	2	[1],[2],[5]	function of an operating system and why it is needed. They will not be required to understand how operating systems work.)  • show understanding of the need for interrupts  Creating a new document with templates & Wizard
Open a file. Cut and paste.   2		<b>5</b> /10	delete, bold, underline, italicize	2		
10. 6/10   Find and Replace. Use Find with the Ribbon   2   [1],[2],[3]	9.	5/10		2	[1],[2],[3]	Opening/modifying a
11. 11/10 Change the font size Use spell check  12. 12/10 Formatting Paragraphs and working with Styles  13. 18/10 Add Sample Text. Add Space Before or After Paragraphs. Change Line Spacing Create a First-line Indent  14. 19/10 Adding Bullets and Numbers, Undoing And Redoing, Setting Page Layouts And Printing Documents  15. 25/10 Mail merge/Formatting tables  16. 26/10 Creating a heading row. Insert an extra column.  17. 1/11 Mail merge. Practice  18. 2/11 Create a page of labels Tables.  19. 8/11 Introduction to Microsoft PowerPoint 2010  20. 9/11 Create a Title Slide  2 [1],[2],[3] from other document formats  12. [1],[2],[3] from other document formats  13. [1],[2],[3] from other document formats  14. [1],[2],[3] from other document formats  15. [1],[3],[4] From other document formats  15. [1],[3],[4] From other document formats  15. [1],[2],[3] from other document formats  16. [1],[2],[3] from other document formats  18. [1],[2],[3] from other document formats  18. [1],[2],[3] from other document formats  19. [1],[2],[3] from other document formats  20. [1],[2],[3] from other document formats  21. [1],[2],[3] from other document formats  22. [1],[3],[4] from other document formats  23. [1],[2],[3] from other document formats  24. [1],[2],[3] from other document formats  25. [1],[3],[4] from other document formats  26. [1],[3],[4] from other document formats  27. [1],[3],[4] from other document formats  28. [1],[3],[4] from other document formats  29. [1],[3],[4] from other documents  18. [1],[3],[4] from other documents  19.	10.	6/10	Find and Replace.	2	[1],[2],[3]	saved document -
12.   12/10   Formatting Paragraphs and working with Styles   2   [1],[2],[3]	11.	11/10		2	[1],[2],[3]	from other document
13.   18/10   Add Sample Text. Add Space Before or After Paragraphs.   2   [1],[3],[4]   -Adding symbols & pictures to documents headers and footers   -Finding and replacing text -spell check and Grammar check   -Formatting text -paragraph formats - adjusting margins, line space - character space   15],[6]   -Changing front type, size   15],[6]   -Changing front type,   -2   [5],[6]   -Changing front type,   -2   -2   -2   -2   -2   -2   -2   -	12.	12/10	Formatting Paragraphs and	2	[1],[2],[3]	
Numbers, Undoing And Redoing, Setting Page Layouts And Printing Documents  15. 25/10 Mail merge/ Formatting tables  16. 26/10 Creating a table. Creating a heading row. Insert an extra column.  17. 1/11 Mail merge. Practice  18. 2/11 Create a page of labels Tables.  19. 8/11 Introduction to Microsoft PowerPoint 2010  20. 9/11 Create a Title Slide  2 [5],[6]  -Finding and replacing text -spell check and Grammar check  - Formatting text -paragraph formats -adjusting margins, line space - character space -character	13.	18/10	Add Sample Text. Add Space Before or After Paragraphs. Change Line Spacing	2	[1],[3],[4]	cuts & mouse  -Adding symbols & pictures to documents -
tables  16. 26/10 Creating a table. Creating a heading row. Insert an extra column.  17. 1/11 Mail merge. Practice  18. 2/11 Create a page of labels Tables.  19. 8/11 Introduction to Microsoft PowerPoint 2010  20. 9/11 Create a Title Slide  21. 15/11 Animate the Bulleted List  2 Island:  3 Island:  4 Island	14.	19/10	Numbers, Undoing And Redoing, Setting Page Layouts And Printing	2	[5],[6]	-Finding and replacing text -spell check and
Creating a heading row. Insert an extra column.  17. 1/11 Mail merge. Practice  18. 2/11 Create a page of labels Tables.  19. 8/11 Introduction to Microsoft PowerPoint 2010  20. 9/11 Create a Title Slide  21. 15/11 Animate the Bulleted List  2	15.	25/10	_	2	[5],[6]	- Formatting text -
17.       1/11       Mail merge. Practice       2       [5],[6]       -Changing front type, size         18.       2/11       Create a page of labels Tables.       2       [5],[6]       size         19.       8/11       Introduction to Microsoft PowerPoint 2010       2       [5],[6]       [5],[6]         20.       9/11       Create a Title Slide       2       [5],[6]       -Bullets and numbering -Tables -Adding.         21.       15/10       Animate the Bulleted List       2       [1],[3],[4]       - Tables -Adding.	16.	26/10	Creating a heading row.	2	[5],[6]	adjusting margins, line
18. 2/11       Create a page of labels Tables.       2       [5],[6]       size         19. 8/11       Introduction to Microsoft PowerPoint 2010       2       [5],[6]       [5],[6]         20. 9/11       Create a Title Slide       2       [5],[6]         21. 15/11       Animate the Bulleted List       2       [1],[3],[4]       -Bullets and numbering Tables -Adding.	17.	1/11		2	[5],[6]	
19. 8/11       Introduction to Microsoft PowerPoint 2010       2       [5],[6]         20. 9/11       Create a Title Slide       2       [5],[6]         21. 15/11       Animate the Bulleted List       2       [1],[3],[4]       -Bullets and numbering Tables -Adding.	18.	2/11		2	[5],[6]	
20.         9/11         Create a Title Slide         2         [5],[6]           21.         15/11         Animate the Bulleted List         2         [1],[3],[4]         -Bullets and numbering           22.         16/10         - Tables -Adding.	19.	8/11	Introduction to Microsoft	2	[5],[6]	
Adminate the Bulleted List  22   16/10   - Tables -Adding.	20.	9/11	Create a Title Slide	2	[5],[6]	
22. 16/10 Create a Chart 2 [1],[3],[4] - Tables -Adding,	21.	15/11	Animate the Bulleted List	2	[1],[3],[4]	-Bullets and numbering
Create a Chart	22.	16/10	Create a Chart	2	[1],[3],[4]	
23. 22/11 Add Shapes to Your Slide 2 [1],[3],[4] editing, deleting tables	23.	22/11	Add Shapes to Your Slide	2	[1],[3],[4]	editing, deleting tables -

24.	23/11	Add Additional Text to	2	[1],[3],[4]	Working within tables
		Your Slide			Adding, deleting,
25.	29/11	Import an Image from the	2	[1],[2],[5]	Adding, detering,
		World-Wide Web		[-],[-],[-]	modifying rows and
26.	30/11	Adjust Images Using	2	[1],[2],[4]	columns -merging &
		Picture Tools			columns merging &
27.	6/12	Hyperlink to a Web Site	2	[1],[2],[5]	splitting cells. Mail
		Containing a Video Clip		[-],[-],[-]	Merge usage.
28.	7/12	Create Slide Transitions	2	[1],[2],[4]	Wieige usage.
		Create Stide Transitions			
29.	13/12	Hyperlink to a Web Site	2	[1],[3],[4]	
		Containing a Video Clip			
30.	14/12	Final Presentation	2	[1],[3],[4]	
		Tillal I Tesentation			
		Total	60		
		2 3 5002			

2 Semester

_	1		2 Semeste	<u> </u>	
№	Дата	Тема	Кол-во час	Литература	Подготовительные вопросы по модулям
1.	23/01	Introduction to MS Excel 2010. Ribbons and Tabs	2	[1],[2],[3]	
2.	25/01	Colour themes and styles, pivot tables	2	[1],[2],[3]	Table creating in MS
3.	30/01	Improved conditional Formatting	2	[1],[2],[3]	Excel and
4.	1/02	Sheet tab, buttons, Workspace and Workbooks	2	[1],[2],[3]	implementation various
5.	6/02	Cell pointer and Auto fill	2	[1],[3],[4]	Charts Cell reference in  MS Excel
6.	8/02	Selecting Cells/ Compound selection	2	[1],[2],[5]	
7.	13/02	Formulas and Calculations	2	[1],[2],[5]	Sorting of data in MS  Excel
8.	15/02	The Sum function. Average function	2	[1],[2],[5]	
9.	20/02	Practice Activities Advanced Data Organization	2	[1],[2],[3]	Filtering data in MS  Excel
10.	22/02	Create Subtotals Group and outline data	2	[1],[2],[3]	Conditional Formatting,
11.	27/02	Apply data validation criteria	2	[1],[2],[3]	Workbook and worksheet
12.	1/03	Remove Duplicate value. Evaluate formula	2	[1],[2],[3]	Protection of workbook
13.	6/03	Advanced Data Organization	2	[1],[2],[3]	and worksheet
14.	13/03	Advanced Data Analysis	2	[1],[3],[4]	
15.	15/03	Advanced Collaboration	2	[1],[3],[4]	
16.	20/03	Introduction to MS Access 2010	2	[4],[5],[6]	Tables Based on the

		Total	60		
30.	10/05	Modify Forms and Reports	2	[1],[3],[4]	
29.	3/05	Macros to Visual Basic	2	[1],[3],[4]	
28.	1/05	View Code and Convert	2	[1],[3],[4]	
27.	26/04	Set Printing Options	2	[1],[3],[4]	
26.	24/04	Format and Modify a Chart Import and Export Data	2	[1],[3],[4]	
25.	19/04	Create and Modify Queries Open Databases	2	[1],[3],[4]	
24.	17/04	Create Tables Based on the Structure of Other Tables	2	[4],[5],[6]	
23.	12/04	Define Tables in Databases	2	[4],[5],[6]	
22.	10/04	Define and Modify Multi- Field Primary Keys	2	[4],[5],[6]	
21.	5/04	Define and Modify Primary Keys	2	[4],[5],[6]	Modify Forms and Reports
20.	3/04	Set Validation Rules	2	[4],[5],[6]	Macros to Visual Basic
19.	29/03	Modify Field Properties	2	[4],[5],[6]	Open Databases
18.	27/03	Define Field Data Types	2	[4],[5],[6]	Tables  Modify Queries
17.	22/03	Define Data Needs	2	[4],[5],[6]	Structure of Other

График самостоятельной работы студентов

No	Weeks	1 2	3 4	- 5	6	7	8	9	10	11	12	13	14	15	16	summ
	Months	October		No	vem	ber				Dece	embei	ſ				
1	Текущий	15		15						10						40
	контроль															
2	Срок	28.09 - 3	2.1	2.11 - 07.11.2020		14.12 – 19.12.2020										
	сдачи	2020	20													
	CPC*															
		February	7	Ma	arch					May						
2	Срок	29.01 - 2	.02.	26	.03 –	- 30.0	03.20	017г.		7.05	<b>− 12.</b>	05.20	020			40
	сдачи	2020														
	CPC*															

<sup>\*</sup>СРС – самостоятельная работа студентов.

Примечание: График проведения рубежного и итогового контроля устанавливается

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