„Effective Computer Usage„ course program

Course code: IFI6001	**Effective Computer Usage**		
Course volume ECP 5	Contact hours: 52	Teaching semester: Autumn	Examination
Course aims:	A purpose of this subject is to provide the students with advanced knowledge and competence for more successful activity in contemporary environment, that is significantly based on computer technologies. To contribute to the formation of skills for working with typical office software, various Internet services, and social software.		
Brief description of course content	Working in a Windows environment. File system and operations. Working in a network environment. Word processing, methods of creating long and short documents. Design of printed text. Inserting different objects into text: pictures, logos, tables, charts, mathematical formulas. Inserting table of contents and page numbers. Headers and footers. Spreadsheets. Basics of formulas. Sorting data, reports. Charts. Graphic presentations. Creating slides, adding visual effects. Working with Internet. Searching information. File transportation. User's safety. Cloud computing, calendars etc. Description of independent work: Independent work consists solving practical tasks using office software and social software.		
Learning outcomes	Be able to design and format (borders, headers / footers, text styles, table of contents, references, tables, lists) large documents using appropriate options of word processing software; Can use a spreadsheet program to design and create tables, that includes formulas with simple functions, create data tables and process data, visualize data through charts; Be able to create presentations, following the recommended procedures and using the software options; Be able to use modern social software applications for collaboration; Be able to digitally sign documents and to open them.		
Ways of assessment:	Exam. To pass classification test, the student must solve the task (tasks) issued by the teacher for every topic of the discipline. The test must be passed at the last practical study (2 x 45 minutes). The general mark of the test depends on the sum of accumulated points for each of the parts of the test.		
Teacher:	lecturer Andrus Rinde		
Subject title in Estonian:	Arvuti töövahendina		
Study literature:	- MS online training materials: http://office.microsoft.com/en-us/training-FX101782702.aspx - Tutorials for OpenOffice: http://www.tutorialsforopenoffice.org/ - Support for Google Docs: http://docs.google.com/support/		
Replacement literature:	Replacement literature is not available, to pass this course student must participate in classes		
Requirements to access	To access to exam student must submit all homework for deadline.		

to exam:	
Requirements for homework:	Homework's will cover all major topics (word processing, spreadsheets and presentations). Homework descriptions and deadlines are available in Google Docs shared folder.
Evaluation criteria:	Each higher level includes all the lower levels. **Word Processing** 1. Typing and basic formatting A - Uses tab for simple table-like structures. Can use symbols not found on keyboard. B - Copies text from internet pages with no formatting. Knows important keyboard shortcuts. C - Can find relevant text information from different internet sources. D - Can select parts of text (words, sentences, paragraphs etc.) and to apply desired formatting. E - Can type correctly. Can copy whole text or parts of text to other documents. Can edit text. 2. Formatting text A - Can copy styles between documents. Can create document templates. B - Can modify existing and create new custom styles. C - Can use styles. Can use headers and footers. D - Can add borders, shading etc. to text. Can use multiple columns for text. Can create bulleted and numbered lists. E - Can change size, alignment and other character and paragraph formatting options of selected text. 3. Objects, tables and references. A - Can add captions to objects and use cross-references. B - Can add drawings and diagrams. Is able to create mathematical equations. C - Can format tables and text in table. Is able to change table layout. D - Can create and format regular tables. Can edit graphic objects (size, crop, wrapping etc.). E - Can add illustrations to text from different sources. 4. Creating document with desired outline A - Can use document sections (different formatting, headers and footers etc.). B - Can add lists of different objects (table of contents, table of figures). Can use different formats of table of contents. C - Can change the documents outline, add and update the table of contents. D - Can divide document into sections, add and remove section and page breaks. E - Creates documents so that it is possible to change outline and generate table of contents. 5. Mailings A - Can apply filters for mailings. B - Can create different mailings (letters, envelopes etc.). C - Can use data sources for mailings and create simple letters for mail merge. D - Knows principals and application of mailings. Can create document to start mailings from. E - Knows about possibilities of mailings. 6. Track changes

A - Can compare two documents and find differences.
B - Can filter changes by type (format, addition etc.) and author.
C - Can use different views of changed document – original, final.
D - Can activate/deactivate change tracking, accept or reject changes.
E - Knows about track changes features.

Presentations
1. Creation and presentation of slides
A - Can create presentation from text document outline.
B - Can use different presentation tools.
C - Can add different objects to slides.
D - Can use different views of presentation software. Knows and uses principles of presentations.
E - Can create new presentation using different standard slide layouts.
2. Presentation formatting
A - Can create custom designs and to apply it.
B - Can use appropriate animations.
C - Uses master slide to format the presentation.
D - Can modify existing designs.
E - Can use existing designs.

Spreadsheets
1. Common knowledge
A - Finds the solution how to convert textual data into numbers.
B - Can edit formulas with one function as argument of other.
C - Can edit formulas containing functions.
D - Can use and edit numerical and textual data.
E - Recognizes the type of data in table cells. Can edit spreadsheet (copy values, autofill etc.).
2. Table formatting
A - Can define custom number formats.
B - Can use existing number formats.
C - Can use different formatting options.
D - Can use most common number formats (available on toolbar).
E - Can use fonts, colors, borders etc. to format table.
3. Formulas
A - Can use rounding properly. Understands the syntax of functions and can edit formulas.
B - Can use logical functions. Uses one function as argument of other function.
C - Can use functions with multiple arguments. Uses naming of cells.
D - Can use most common functions (Sum;Average;Min;Max Count). Uses relative and absolute addresses.
E - Knows and uses different arithmetical operations.
4. Charts
A - Can create appropriate charts to illustrate numerical data.
B - Can use large amount of data to create the chart.
C - Can add appropriate data to chart, add, remove and edit this data later. Can change the type of chart.
D - Can create simple charts.
E - Can create chart but it doesn't illustrate data appropriately.
5. Data tables
A - Can use database functions, subtotals and filters.

	B - Can add fields to pivot table and create chart from pivot table. C - Can create pivot tables. D - Can sort and filter data in table. E - Can create tables according to principles of data table, understands the ideas of fields and records in data table. **Social software in collaboration** A. B, C – Can use and share calendar and documents with others (GoogleApps). D, E – Knows different social software examples and their field of use. **ID-card and digital signature** A – Can encrypt documents. B, C, D – Can digitally sign documents. E – Can authenticate with ID-card and verify digital signatures.
Topics, times of contact hours	Topics by weeks or lectures.
week 1 – September 4, 08.15 - 11.45	Introduction to course. Working in TLÜ-s network. File system, important file operations. Word processing. Rules of typing. Short vs Long document. Selecting text. Basic formatting. Styles, use and modification. Document map. Table of contents.
week 2 – September 11, 08.15 - 11.45	Word processing. Creation and modification of styles. Generating and updating the table of contents. Text formatting options (font, paragraph etc.). Shared folder in Google Docs.
week 3 – October 2, 08.15 - 11.45	Word processing. Search and replace. Copying text without formatting. Adding pictures to document. Adding captions to pictures and other objects. Cross-references. Text outline.
week 4 – October 9, 08.15 - 11.45	Word processing. Sections, text in multiple columns. Header and footer, page numbers. Revising exercises.
week 5 – October 16, 08.15 - 11.45	Word processing. Tracking changes, comments. Tables in document. Drawings and diagrams. Printing.
	Week for individual work.
week 6 – October 30, 08.15 - 11.45	Presentations. Creating new presentation. Correction of presentation, changing outline, resetting slides, changing slide layout. Different views. Slide background. Using master slide.
week 7 – November 6, 08.15 - 11.45	Presentations. Transitions and animations, background graphics. Creating new master slide. Adding graphics, sound and video to slides. Rehearsing presentation. Printing presentation.
week 8 – November 13, 08.15 - 11.45	Presentations. Hyperlinks and interactivity. Revising exercises. Resources of TLU's network. Account in lin2.tlu.ee server, using FTP, web address, Google Calendar. Digital signature (ID-card and PIN codes required).

	File storage and syncing in cloud
week 9 – November 20, 08.15 - 11.45	Spreadsheets. Introduction. Entering data to spreadsheets. Data types. Copying and moving cell content. Principles of creating formulas. Arithmetical operations, cell addresses. Functions. Naming cells.
week 10 – November 27, 08.15 - 11.45	Spreadsheets. Advanced formulas, function as argument of other function. Types of charts. Principles of creating charts. Editing and formatting charts. Sorting data.
week 11 – December 4, 08.15 - 11.45	Spreadsheets. Using multiple sheets. Filters. Pivot tables. Formatting and printing spreadsheets. Adding chart to text document or presentation.
week 12 – December 11, 08.15 - 11.45	Resources of TLU's network. Access to databases of scientific articles. Using Google Docs for collaboration.
week 13 – December 18, 08.15 - 11.45	Revising for exam.

Õppeainet kureeriv üksus:	Informaatika instituut
Kursuseprogrammi koostaja	Andrus Rinde
Allkiri:	
Kuupäev:	18.08.2014

Kursuseprogramm registreeritud akadeemilises üksuses

Kuupäev	19.08.2014
Õppeassistendi nimi	Liina Kirsipuu
Allkiri	