Subject code: IFI6023	Subject name: COMPUTER GRAPHICS		
Study load: 4 (EAP/ECTS)	**Load of contact hours:** 56	**Study semester:** SPRING	**Assessment:** EXAM
Objectives:	Obtain practical skills and theoretical knowledge in area of design of computer graphics and to develop creativity.		
Course outline:	Concepts and application areas of computer graphics. Basic principles of composition, design and color theory. Color space and color models. File formats and application areas. Corel Draw - platform for designing vector graphic images. Adobe Photoshop as environment for designing raster graphic photos. Basics of 3D graphics by the example of Corel Draw and Adobe Photoshop. Creative exercises.		
Learning Outcomes:	In the end of the course student is able to: - Design vector graphic images - Manipulate raster graphic photos - Integrate vector and raster graphics - Chose optimal tools based on the task - Have overview of terminology of computer graphics - Visualize ideas graphically		
Assessment Methods:	Final **exam** will be held in the format of exhibition where students present and describe the full collection of their individual assignments (all 13 individual works) in the format of poster or web gallery.		
Teacher(s):	Martin Sillaota		
Subject name in Estonian:	Arvutigraafika		
Prerequisite subject(s):	None		
Compulsory Literature:	None		
Replacement Literature:	Adobe Creative Team. Adobe Photoshop CS6 Classroom in a Book Adobe Creative Team. Adobe Illustrator CS6 Classroom in a Book Gary David Bouton. CorelDRAW X6 The Official Guide Diane Koers. Picture Yourself Learning Corel PaintShop Pro X5 Lisa Graham. Basics of Design Robin Williams. The Non-Designer's Design and Type Books		
Participation and Exam requirements:	Study will take place in the format of computer labs. Participation in labs and timely submission of home tasks is requirement for exam.		

	It's compulsory to attend more then 75% of labs (10 labs out of 13) and collect more then 75% of points (19 out of 26) for home assignments.
Independent work:	Individual assignments are given after each topic. Results of assignments will be presented and discussed in the beginning of next computer lab. Individual assignments are: 1. Free vector graphic basic shapes (Deadline 7 Feb) 2. Design principles through combined shapes and lines (Deadline 14 Feb) 3. Font selection and text to freehand and path on personal logo (Deadline 21 Feb) 4. Vector graphic effects on Flayer (Deadline 28 Feb) 5. Play with colours – color composition (Deadline 7 Mar) 6. Room plan Technical Drawing (Deadline 14 Mar) 7. Vector Graphic Auto Portrait (Deadline 28 Mar) 8. Retouching personal photo (Deadline 4 Apr) 9. Photo collage (Deadline 11 Apr) 10. Roll-play with layers (Deadline 18 Apr) 11. BW photo to color image (Deadline 25 Apr) 12. PS Effects (Deadline 1 May) 13. Animated self-portrait (Deadline 1 May) Assessment of home assignments is based on following scale: 2 points – required tools and techniques are used in creating the artwork and the image is aesthetically enjoyable. 1 point – there is no evidence about required techniques or tools or the image is not aesthetically enjoyable. 0 points – work is missing or is delivered after the deadline. Learning Management System iCampus (http://htk.tlu.ee/icampus/) is used for delivering the assignments. All documents should be stored in PNG file format and attached to relevant task. The maximum file size is 5 MB.
Grading criteria scale or the minimal level necessary for passing the subject:	**A** All of the works in the examination poster or web gallery: - Are original - Have enjoyable aesthetics - Have clear message - Have evidences of use appropriate tools and functionalities Student can give excellent explanations about design and layout **B** Most of the works in the examination poster or web gallery: Are original, … Student can give good explanations about design and layout

	C Half of the works in the examination poster or web gallery: Are original, … Student can give sufficient explanations about design and layout **D** Some of the works in the examination poster or web gallery: Are original, … Student can give some explanations about design and layout **E** Few works in the examination poster or web gallery: Are original, … Student can give poor explanations about design and layout **F** None of the works in the examination poster or web gallery: Are original, … Student can't give explanations about design and layout
Information about the course:	
31.01.13	Introduction to course Basics of computer graphics Essential of vector and raster graphics Basic functionalities and tools in Corel Draw
07.02.13	Lines and nodes Combined figures Design Basics
14.02.13	Types Artistic text Paragraph text
21.02.13	Effects 3D
28.02.13	Color models Color pallets Color effects Color Fills
07.03.13	Scales Dimensions and layers Technical drawings
14.03.13	Vector and raster graphic combination Bitmap effects Converting raster graphic to vector – TRACE Publishing
28.03.13	Introduction to raster graphics Introduction of Adobe Photoshop Basic transformations Drawing

	Photo retouching
04.04.13	Layers Selections
11.04.13	Masks
18.04.13	Colors Layer blending modes Color manipulation
25.04.13	Raster Effects
01.05.13	Web graphics Animated GIF Web Gallery 3D
23.05.2014	Exhibition