

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. Graphic file formats and application areas. Corel Draw - platform for designing vector graphic images. Short introduction of Adobe Illustrator. Adobe Photoshop as environment for designing raster graphic photos. Short introduction of Corel Paint Shop. Basics of 3D graphics by the example of Corel Draw and Adobe Photoshop. Creative exercises from problem to solution.		
Learning Outcomes:	<p>In the end of the course student is able to:</p> <ul style="list-style-type: none"> - Design vector graphic images - Manipulate raster graphic photos - Integrate vector and raster graphics - Chose optimal tools based on the graphical task - Have overview of terminology of computer graphics - Visualize ideas graphically 		
Assessment Methods:	Final exam will be held in the format of exhibition opening where students present and describe collection of their home tasks (14 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:	<p>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</p>		
Participation and Exam requirements:	Study will take place in the format of computer labs. Participation in all labs is highly recommended. Timely submission of all home tasks		

	<p>(14) is mandatory.</p> <p>Timely delivery of all individual assignments is requirement for exam.</p>
Independent work:	<p>Individual home assignments in the end of each topic. Presentation and discussion of home task results in the beginning of next class:</p> <ol style="list-style-type: none"> 1. Free topic: idea, vector graphic basic shapes (Deadline 4 Feb) 2. Free topic: idea, composition, combined vector graphic shapes and lines, (Deadline 11 Feb) 3. Personal logo: font selection, transfer text to vector graphic freehand and path (Deadline 18 Feb) 4. Flayer: text and vector graphic effects (Deadline 25 Feb) 5. Room plan: combined vector graphics, measurements, scale (Deadline 4 Mar) 6. Advertisement: combination of vector and raster graphics, trace, fixed size (Deadline 11 Mar) 7. Brochure: comparison of CorelDraw and Adobe Illustrator functions or tools (one), descriptive text and images (Deadline 25 Mar) 8. Retouching personal photo (Deadline 1 Apr) 9. Colors to BW photo (Deadline 8 Apr) 10. Photo collage (Deadline 15 Apr) 11. Role-playing game - authors face on celebrities head (Deadline 22 Apr) 12. Color composition - drawing with colors (Deadline 29 Apr) 13. Effect - presentation of raster graphic effects (one set) in the format of Flier or Brochure, text and images (Deadline 6 May) 14. Animated self-portrait (Deadline 6 May)
Grading criteria scale or the minimal level necessary for passing the subject:	<p>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</p> <p>B Most of the works in the examination poster or web gallery: Are original, ... Student can give good explanations about design and layout</p> <p>C Half of the works in the examination poster or web gallery: Are original, ... Student can give sufficient explanations about design and layout</p> <p>D</p>

	<p>Some of the works in the examination poster or web gallery: Are original, ... Student can give some explanations about design and layout</p> <p>E Few of the works in the examination poster or web gallery: Are original, ... Student can give poor explanations about design and layout</p> <p>F None of the works in the examination poster or web gallery: Are original, ... Student can't give explanations about design and layout</p>
Information about the course:	
28.01.13	<p>Introduction to course Theory of computer graphics Essential of vector and raster graphics Basic functionalities and tools of Corel Draw</p>
04.02.13	<p>Lines and nodes Combined figures Design Basics</p>
11.02.13	<p>Types Artistic text Paragraph text</p>
18.02.13	<p>Effects 3D Color effects</p>
25.02.13	<p>Scales Technical drawings</p>
04.03.13	<p>Vector and raster graphic combination Converting raster graphic to vector – TRACE Publishing</p>
11.03.13	<p>Introduction of Adobe Illustrator</p>
25.03.13	<p>Introduction to raster graphics Introduction of Adobe Photoshop Basic transformations Drawing Photo retouching</p>
01.04.13	<p>Raster text Layers</p>
08.04.13	<p>Selections</p>
15.04.13	<p>Masks</p>
22.04.13	<p>Color composition Color models Layer modes</p>

	Color manipulation
29.04.13	Raster Effects Web graphics 3D
06.05.13	Introduction of Corel PaintShop