CIT2731 Digital Graphics in Business

Code
CIT2731

Title
Digital Graphics in Business

Prerequisites
none

Credits
3

Description
This course provides with essential knowledge and practical drills in computer graphics. The course includes basis of 2-, 3- dimensional vector, bitmap graphics. The course introduces with modern computer graphics packages as Corel Draw Graphics Suite2020 (Corel Draw, Corel Photo Paint) for business applications, and free software for creating info-graphics, and other business graphics, analytical visuals like Tableau, Piktochart, and others.

Outcomes
At the end of the course, students should be able to do the following: KNOWLEDGE: Students will have an understanding of Basis of computer graphics; types of computer graphics (bitmap or raster and vector; 2-, 3- dimensional); advantages and disadvantages of different types of computer graphics The use of computer graphics in business. Modern computer graphics software, including free ones. SKILLS: Students will be learnt to Create drawings in Corel Draw 2020 using all available tools, shapes, color palettes and fill effects, modifiers, different effects tools. Import, export files in different formats Create own and restore damaged old photos and images of different formats in Corel Photo Paint 2020. Create animated scenes, movies in different formats, place them on web sites, pages. Create info-graphics based on business data, using free software for info-graphics, visualization, like Tableau, Piktochart, etc.

Assessment
60 % -first and second assessments
40 % -final assessment

Tentative course outline
Week1
"Digital graphics. Info-graphics – visualized presentation of numeric data Free info-graphics software. Piktochart: IDE, tools, facilities"

Week2
Free on-line analytical processing platforms. Tableau: IDE, tools, facilities

Week3
" Introduction. Course Objectives, Exploring the Corel DRAW Screen. File Management Moving Around and Viewing Drawings. Selecting & Manipulating Objects. Quiz 1"

Week4
" Moving Objects. Copying and Deleting Objects. Sizing Objects. Drawing and Shaping Objects. Modifying Objects. Quiz 2 "

Week5
"Arranging Objects. Aligning Objects. Working with Text. Filling Objects Using Fill Tool Using Symbols and Clipart. Transforming Objects. Filling Objects Using Fill Tool. Adding. Symbols Adding Clipart. Special Effects. Fitting Text to a Path Drawing . Exporting to Graphic Formats. Copy and Pasting Into Other Applications. Coordinates and basic drafting tools. Creating and editing 2D geometry. Print Options. Page set up & plotting. Quiz 3 Home Assignment 1 Creating the advertising booklet in CorelDraw, work is an embodiment of any plan, instead of simply a set of graphic elements, the text etc."

Week6
" Raster and vector the diagram. Classification of packages machine diagrams. Graphic formats. Transformation the RASTER <=> the VECTOR. Comparison of raster and vector representation. Modifying bitmap images, applying bitmap effects, colors contrast intensity adjustment Quiz 4"

Week7
"Home Assignment 2 Creating the animated scene (movie) for 2-3 min in .gif format on the topic to be announced The Requirements: Create your own drawings in Corel Draw with 5-6 modifiers. 1-2 ready bitmap images with your improvements (bitmap effects) must be included Export animated scene either in .gif format. "

Week15
Assessment