

ECCC SYLLABUS

MODULE: **CS M2** COMPUTER GRAPHICS

LEVEL: **ADVANCED (C)**

The examination of this module includes all aspects of the intermediate level (B) extended the competencies listed below.

COMPETENCE GROUP	COMPETENCE WITHIN ECCC STANDARDS
1. Creating and editing of images raster	1.1. Customizing the interface and workspace: set of units and rulers, measuring distances in different units. 1.2. Creating selections: setting the size of the selection, magnetic selection, according to the color range. 1.3. Operations on layers: layer masks - the creation and editing. 1.4. Color correction image: color curves, thresholding, exposure, shadow and highlight. 1.5. Painting and retouching the image and applying filters: deformation blurs, filters: noise, pixel print, lighting effects. 1.6. Creating shapes and paths, and editing of texts: the advanced drawing shapes and paths, export routes, writing and editing text in the box and paragraph formatting.
2. Creating and editing vector images	2.1. Working with vector objects: creating and editing complex shapes, edit Bézier paths, transformations of objects, properties of the contour, the use of spot colors. 2.2. Entering and editing text: text wrap objects, placing text on paths. 2.3. Modification and creation of objects: the sum, difference, intersection, division. 2.4. Working with bitmaps: adding raster images to the project.
3. Preparing graphics for publication on the screen	3.1. Publication of the image on the web: advanced graphics optimization.
4. Printout from the printer and prepare graphics for print	4.1. . Preparing graphics for print: export image to commonly used graphic formats used for traditional printing - TIF, EPS.
5. Batch processing - automating the process of preparing images	5.1. Automatically brightening multiple images. 5.2. Automatically cropping multiple images.
6. Multimedia objects and animations	6.1. The use of animation effects to static images, creating simple animations.

Preferred development environment for the realization of the advanced-level tasks:

- raster graphics: **Adobe Photoshop**, GIMP
- vector graphics: **Adobe Illustrator**, CorelDRAW,
- batch processing: **IrfanView**
- multimedia objects and animation: **Adobe Photoshop (Image Ready)**