

Multimedia – their creation, editing and use

Brief description of the course:

The goal is to learn and understand the basic methods of storing and processing multimedia data - image, sound and video. Another goal is to gain skills in editing, cutting and converting audio files in Audacity. Gain skills in video editing and adding additional effects in the HitFilm environment.

Prerequisites: Basic knowledge of the issue

Type of Activity: Theoretical and practical preparation of participants

The number of hours: 40

Course language: Czech/Ukrainian

Maximum number of course participants: 12

Detailed course description:

- Multimedia and its use in our life, Sound – its physical nature, method of storing in a computer, principle of A/D conversion, Sound storage parameters – sampling frequency, bit depth, data flow, number of channels, Video – multimedia codecs and containers, Program Media Info, Digital photography – aperture, time, depth of field + focusing on mobile phone photography
- Work with sound – cut a part of the sound, copy a word, increase, decrease, denoise + other effects. (Creating a ringtone for the phone, showing the sounds around us)
- Conversion of audio files to other formats – MP3, FLAC, WAV, AAC, etc. + change of parameters
- Work in the ClipChamp program in W11
- Tracking (adding an object to the video. The object is linked to a specific point (eye, tip of the roof, etc.) and follows this object)
- Work in the program VirtualDub, Format Factory, VLC Player (video conversion, enlargement, reduction, rotation, coloring, etc.)
- Taking photos and shooting videos with a mobile phone. (Aperture, shutter speed, HDR, sports photography, portraits, night photos, etc.)

Course goal: Obtaining basic knowledge of the issue

Awaited results: General knowledge of the issue

Assessment (Micro-credential type): 80% participation in the course, submission of the assigned task/project.