



Computer Science

Year 10

Module 1

Bases of electronic document flow

1	Documents and document flow Concept of a document. Design and classification of documents. Document flow. General rules of executing documents. Business correspondence style. Logical elements of text and procedure of its formatting. Rules of page formatting. Formatting of reference lists and indexes.
2	Means of document and information processing Systems of electronic document management. Means of creating, storing, processing, copying, and transporting documents. Software for document and information processing. Types of systems for text processing. Communication technologies.
3	Electronic document flow Electronic document, its features and legal status. Electronic document flow. Electronic digital signature. Personal and open keys. Open key certificate OCR technologies for hard copies recognition. Transferring electronic documents. Storing electronic documents. Confidentiality of electronic documents. Electronic office.

Expected results

Pupil:

- Adheres to the rules of page formatting.
- Uses hardware and software means to create, edit, print, and transfer documents.
- Creates simple text documents, knows how to store, copy, and send them.
- Fulfills the main procedures with electronic documents (text typing, editing, proofreading, illustrating, page modeling, and printing)

Module 2 Module. Web technologies

1	Directions and tools for web design Main trends in web design. Types of websites and target audience. Information structure of a website. Web development tools
2	Web page design and front-end web development Markup language. Web document and its element Text elements of a web page, tags, and their attributes. Hyperlink Tables and lists on web pages Cascading Style Sheets. Style of webpages CSS block model Web page design and front-end web development
3	Graphics and multimedia in web Web graphics Multimedia on web pages Placing multimedia files and setting the playback parameters Copyright and licenses in web
4	Basics of design and website promotion Website planning and planning stages Website structure and spatial design of web pages Ergonomic placement of details on a web page Design of color, form, texture, and fonts Optimization and strategies of website promotion Website hosting

Expected results

Pupil:

- Creates web pages using website constructors
- Uses technical and software design tools
- Fulfils the main procedures with web pages (adding text information, images, and links)

Module 3 Graphic design

1	Graphic design as a means of visual communication Design and design trends. Digital art Modern advertisement and brand. Electronic and printed portfolio Typography, fonts, and font pairs. Brief history of design and typography Infographics
2	Raster graphics Features of images and means of their display Concept of layered image. Layer operations. Making collages. Means of collaging Text operations Retouch and artistic processing of images. Tonal adjustment of images. Operations with color Creating elements for web pages. Development of design and graphic projects
3	Bases of composition and design Color. Theory of color. Coloristics Concept of brand and branding. Elements of brand. Visual identity Logo design. Brand guide. Brand book
4	Vector graphics Work with vector contours Object flooding. Gradient operations. Text operations. Mockups Design of billboards, tickets, leaflets, posters, etc.
5	Graphic design in poligraphy Desktop publishing. Desktop publishing software Bulky editions and their formats. Means of composition Individual and collective projects (leaflets, brochures, and magazine covers)

Expected results

Pupil:

- Uses technical and software graphic image design tools
- Works with graphics of different types
- Uses templates and creates his or her templates.
- Creates, edits, and saves graphic images in different formats.