

ICT optional course

(S6 and S7, 2 periods per week)

Objectives

ICT competences are necessary in almost all work sectors, although there are ICT skills of various types. Informatics is a world, and we would like to let the students explore part of all its continents.

Contents (and possible adopted software)

1. Advanced Web development
Each student will have the opportunity to develop his own website
(Wix, Dreamweaver, Joomla, ...)
2. How to create and use a Database
Database structure, SQL language, queries
(MySql, ...)
3. Programming
Variables, Commands, custom functions definition
(Python, Flash, Arduino, ...)
4. Graphics
Photomontage, gif animations
(GIMP, Paint.net, ...)
5. Video editing
short film editing with special effects
(VideoPad Editor, ...)
6. Networking
LAN, how internet works, routing
(Filius, ...)

Instruments and method

Activities in class are performed singularly or in team. 3 ICT rooms are equipped with new PCs (Windows 10) and all necessary software.

Marks

A mark will be determined by activities and projects developed during the semester. Students will be evaluated on all topics.

B mark will be determined with two written tests (on paper and/or computer) per semester composed by questions on all the topics.

Required Level

S4 and S5 ICT courses are not strictly required, but a good ICT background, and especially passion and enthusiasm are recommended. Please contact Mr Vis, Mr Cookdale or Mr Popovic for any further info.