



Democritus University of Thrace, Kavala, Greece

School of Science
Department of Informatics

Department of European and International Programmes – Erasmus+

Agios Loukas, 654 04, Kavala University Campus, Greece
0030-2510-462221 & -290 & -308

Proposed Course for incoming Erasmus students¹

Responsible for the course (lecturer) (name, phone number, e-mail address)	Assist. Professor Ioannis Kazanidis 0030 2510 462 625 kazanidis@cs.duth.gr
Title of the Course	DIDACTICS AND APPLICATIONS IN INFORMATICS
ECTS credits	5
Short contents of the course	<ul style="list-style-type: none"> • Introduction • Object and basic concepts of Computer Science Education • Basic topics of Computer Science Education • Information technology in the different levels of education • Theories of Learning • Educational techniques • Programming and pedagogy • Learning difficulties of pupils in IT • Educational environments and programming languages • Teaching approaches to programming • Educational games and gamification • Educational robotics • Teaching and introductory programming environments - Scratch • Microworlds and teaching • Virtual worlds in education • Scripting environments • General purpose software • Educational software • Teaching support software • Online tools • Asynchronous learning • Synchronous learning
Aim of the course and target audience	<ul style="list-style-type: none"> • The course aims for students to acquire general knowledge and skills related to the learning and teaching of basic concepts of Computer Science and ICT, as well as the didactic use of ICT in teaching practice.. • Target audience: Undergraduate students of Informatics/ Computer Science OR Education
Teaching Methods duration and Evaluation	Lectures: 26 hours Hands-on exercises: 26 hours Evaluation: 100% Individual AND/OR Group Assignments
Offered Period	Fall semester

Courses offered in English for incoming Erasmus+ students

Indicative bibliography	<ol style="list-style-type: none">1. P. Saettler, (2018). <i>ICT in Education</i>, Raj Publication.2. Proceedings «ICT in Education» International Conference, https://www.etpe.gr/conferences/13o-panellinio-kai-diethnes-synedrio-oi-tpe-stin-ekpaidefsi/3. Notes from I. Kazanidis
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¹ Could be easily used and offered for TS movement to our Erasmus partners