

Discipline	COMPUTER PERIPHERAL - PROJECT code: 45d winter semester		
Specialty	Computer Science and Technologies		
ECTS credits: 2	Form of assessment: ongoing assessment		
Lecturer	Assoc. Prof. Zheyno Zheyrov, PhD Room 407 A TB Phone: +359 52 383 260 E-mail: zh_viv@tu-varna.bg		
Department	Computer Science and Engineering		
Faculty	Faculty of Computing and Automation		
<p>Learning objectives:</p> <p>The course aims at deepening students' knowledge in the field of organization, operation and management of peripheral devices and how to integrate them into a single computing or control system, as well as to ensure diploma project design. It aims at building habits and skills for independent work with scientific and technical literature, working with technical documentation and writing it.</p> <p>Individual assignments are aimed at systematically reviewing and analyzing a group of peripheral devices, or studying a particular device and developing hardware and software for connecting it to a computer system. This is done through the appropriate use of standard peripherals, interfaces and controllers developed by leading companies. During the design, the student passes through all stages of design - algorithmic, structural, logical, principled, and experimental. This includes studying technical standards, designing plans and technical documentation, planning and organizing experimental research, studying the technical means for conducting it, and other practical skills. An accompanying explanatory note is prepared.</p> <p>The knowledge of previous and current disciplines on the methods and technical means for application hardware and software design is applied.</p>			
CONTENTS:			
	Training Area	Hours lectures	Hours seminar exercises
	Setting and clarifying the individual assignments		2
	Synthesis of the block diagram and specification of the tasks of the main blocks		6
	Overview and selection of a standard peripheral device, interface, controller		6
	Design of the electrical circuits		6
	Design of the application software		6
	Creating the project documentation		2
	Presentation of the project documentation and a quiz		2

TOTAL: 30 h	0	30
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