Discipline	BASICS OF COMPUTER COMMUNICATIONS - PROJECT code: 39d **summer semester**	
Specialty	Computer Science and Technologies	
ECTS credits: **2**	Form of assessment: ongoing assessment	
Lecturer	Assoc. Prof. Veneta Aleksieva, PhD Room 207-4 E Phone: +359 52 383 439 E-mail: valeksieva@tu-varna.bg	
Department	Computer Science and Engineering	
Faculty	Faculty of Computing and Automation	

Learning objectives:

The subject aims to make deep students' knowledge in the field of computer communications. In the context of local and Internet networks, the students make a self-study of a particular communication technology based on an individual task sets by the lecturer. They write the study in a paper reviewing the technology standards and existing implementations of aspects such as security, performance, reliability and fault-tolerance. They are familiar with topical issues related to the implementation and development of selected network technologies. They formulate a conclusion about its applicability, its advantages and disadvantages.

The discipline is related to next subjects "Computer Network","Administration of Local and Internet Networks" and "Computer and Network Security".

CONTENTS:

Training Area	Hours lectures	Hours seminar exercises
Description of the subject area. Study the subject area. International and national standards for the chosen technology.		2
Exploring the application areas of the technology. Links to previous technologies.		4
Consider alternative solutions		4
Comparative analysis of the studied technology with the alternative solutions in terms of technical characteristics. Formulation of advantages and disadvantages of the technology towards alternative solutions.		4
Format of the PDU of the selected technology. Specifics concerning the advantages / disadvantages of technology.		4
Type of exchanged messages in the selected technology. Specifics concerning the advantages / disadvantages of technology.		4
Implementation of QoS (Quality of Service) for the technology under consideration. Comparative analysis of existing solutions.		4

Documentation		2
Defense of project		2
TOTAL: 30 h	**0**	**30**