

Discipline	DISCRETE STRUCTURES - PROJECT code: 25d <b>summer semester</b>		
Specialty	Computer Systems and Technologies		
ECTS credits: <b>2</b>	Form of assessment: ongoing assessment		
Lecturer	Assoc. Prof. Ivailo Penev, PhD Room 405 TB Phone: +359 52 383 407 E-mail: ivailo.penev@tu-varna.bg		
Department	Computer Science and Engineering		
Faculty	Faculty of Computing and Automation		
<p>Learning objectives:</p> <p>The “Discrete Structures” course project is designed for students of the specialty CST. There are practical assignments that clarify the concepts, studied in the previous semester. Tasks are related to the development of analyzers and recognition programs for a simplified input language, composed of string characters, defined on a given alphabet.</p> <p>The project relies on the knowledge of students from previous disciplines:</p> <ul style="list-style-type: none"> <li>• Fundamentals of computer systems</li> <li>• Basic programming</li> <li>• Discrete structures</li> <li>• Synthesis and analysis of algorithms</li> <li>• Mathematics for Computer Science</li> </ul> <p>The acquired knowledge and skills are necessary for the students in the disciplines "Object-Oriented Programming", "Operating Systems", "Compilers and Interpreters" as well as in the practical work of each student.</p>			
<b>CONTENTS:</b>			
Training Area	Hours lectures	Hours seminar exercises	
Sets and operations with sets. String sets. Regular sets and expressions		6	
Formal languages and grammars		8	
Recognition of regular and context-free languages		8	
Turing machines		8	
<b>TOTAL: 30 h</b>		<b>0</b>	<b>30</b>