


Discipline	<b>Engineering Graphics and Technical Documentation</b> <b>code: 10</b> <b>2 semester</b> <b>/summer/</b>		
Specialty	<b>Industrial Management</b>		
ECTS credits: 5	Form of assessment: <b>Inter-semester Evaluation</b>		
Lecturer	<b>Assist. Prof. Eng.</b> <b>Sonya Vachinska-Aleksandrova, PhD</b> <b>Room 508M</b> <b>Phone: +359 52 383 531</b> <b>E-mail: s_vachinska@abv.bg</b> <b>s_vachinska@tu-varna.bg</b>		
Department	Manufacturing Technologies and Machine Tools		
Faculty	Faculty of Manufacturing Engineering and Technologies		
<b>Learning objectives:</b> "ENGINEERING GRAPHICS AND TECHNICAL DOCUMENTATION" course teach students on the basic of the engineering drawing. The subject conduct deep aesthetic criteria about engineering thinking and document preparation. Engineering graphics is a part of technical documentation and this is a universal language of all engineers used in their design process. It is a formal and precise way of presenting specific information about the shape, the size, features, machining and precision of the elements. Actually, this is a graphical representation of objects and structures for quickly, fully and accurately visualizing objects and conducting analysis. The purpose of course is to teach young student how to prepare an engineering drawing which convey all the required information that will allow a manufacturer to produce that component. All drawings are necessary to create in accordance with standardized conventions for layout, nomenclature, interpretation, appearance, size etc.			
<b>CONTENTS:</b>			
	<b>Training Area</b>	<b>Lectures</b>	<b>Laboratory classes</b>
	Graphics in design and communication. Projection systems – first angle orthographic projection and third angle orthographic projection. View types – main, additional, part and local views.	5	8
	Cutting plane and sectioning – successive section, revolved, broken-out, offset, aligned section and half section. Dimensioning – symbols and specific features.	58	8
	Treads joins. Type of threads. External and internal threads. Standard threaded elements. Conventional representation of common feature.	3	8
	Surface finishing. Roughness and tolerance. Rules for reading assembly drawing and disconnect elements	2	6
	<b>TOTAL: 45 h</b>	<b>15</b>	<b>30</b>