Discipline	**Technical Documentation code: 4 1 semester /winter/**	
Specialty	**Electrical Engineering and Renewable Energy Sources**	
ECTS credits: **6**	Form of assessment: **Inter-semester evaluation**	
Lecturer	**Assist. Prof. Eng.** **Sonya Vachinska, PhD** **Room 508M** **Phone:+359 52 383 531** **E-mail: s_vachinska@abv.bg** **s_vachinska@tu-varna.bg**	
Department	Technology of Machine Tools and Manufacturing	
Faculty	Faculty of Manufacturing Engineering and Technologies	

Learning objectives:

"TECHNICAL DOCUMENTATION" course teach students on the basic of the engineering drawing. The subject conduct deep aesthetic criteria about engineering thinking and document preparation. Technical documentation is a part of technical drawing and this is a universal language of all engineers used in theirs design process. It is a formal and precise way of presenting specific information about electrical symbols and circuit diagram, the shape, the size, features 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 to produce that device. All drawings are necessary to create in accordance with standardized conventions for layout, nomenclature, interpretation, appearance, size etc.

CONTENTS:

Training Area	**Hours lectures**	**Hours laboratory exercises**
Graphics in design and communication. Computer programs for drawing. International standards for electrical documents preparation– EN, ISO, IEC, ANSI. Rules for drawing electrical symbols and circuit diagram.	5	10
Projection systems – first angle orthographic projection and third angle orthographic projection. View types. Axonometric view.	5	10
Cutting plane and sectioning – successive section, revolved, broken-out, offset, aligned section and half section. Dimensioning –symbols and specific features.	3	6
Rules for reading assembly drawing and disconnect elements. Roughness and tolerance.	2	4
TOTAL: 30 h	**15**	**30**