	UNEVERSITY OF EAST SARAJEVO Faculty of Mechanical Engineering	
	Study program: Mechanical Engineering	
	1ST LEVEL OF STUDIES	1ST YEAR

Course title	**ENGINEERING GRAPHICS**
Department	Department of Mechanical constructions and Engineering Design

Code	**Course status**	**Semester**	**ECTS**
MC-06-1-003-1	Mandatory	I	6

Professor	PhD Biljana Marković, full professor
Teaching assistant	M. Sc.Spasoje Trifković - teaching assistant, M. Sc.Aleksija Đurić - teaching assistant

Number of hours (per week)			**Individual student workload (in hours in semester)**			**Coefficient of student workload S_o**
L	**E**	**LE**	**L**	**E**	**LE**	**S_o**
2	1	2	$2*15*S_o$	$1*15*S_o$	$2*15*S_o$	1.4

Total total teaching hours in semester $2*15 + 1*15 + 2*15 = 75$ hours	Total student's workload (in hours in semester) $2*15*S_o + 1*15*S_o + 2*15*S_o = 105$ hours
Total course workload: $75 + 105 = 180$ hours in semester	

Student learning objectives	1. Introduction to the basic rules and concepts of technical drawing and drawing using a computer; 2. Mastering 2D technical drawing in AutoCad software packages; 3. Acquiring knowledge for independent production of graphic tasks, with an emphasis on the recording of parts, as well as the making workshop and assembly drawings, 4. Particular emphasis on acquiring knowledge about tolerances and their use in technical drawings;
Conditionality	No conditioning
Teaching methods	Lectures, exercises, graphic exercises, computer exercises, colloquiums
Content of the course by weeks	1. Introduction: Standards, standardization, the most important standards in mechanical engineering; 2. Formatting, benchmarks, header, invoice, archiving of technical documentation; 3. Technical letter, types and debit lines, use of drawings; 4. Basic rules for showing relationships; simple and straightforward rendering; 5. Pursuing, designing, watching, prospects; 6. Orthogonal projection; Oblique and axometric thinning; European and American way of divination; 7. Cut, predicate, use drawings, examples; 8. Quotation, basic rules, quotation elements, use, possess tags, examples; 9. Tolerances of length measures, peak presence; qualitative processing of occasional use, use on drawings, examples; 10. Tolerance of face and position, examples; 11. Display of threaded ties, tied wedge, rivets; 12. Displaying springs, taking advantage of gears, sprockets, transfer memory, bearing; 13. Simplified representation of welds on drawings; 14. Parts recording, sketching, more sketching, smaller tools and accessories; Workshop drawing, assembly and subassembly drawing; 15. Commercial drawing software packages (AutoCad); Application of computer graphics; Equipment, hardware lining;

Required literature			
Authors	**Name of the publication, publisher**	**Year**	**Pages**
B. Marković, et al	"Inženjerska grafika sa praktičnim primjerima", Faculty of Mechanical Engineering East Sarajevo	2015.	-
B. Marković	Script in English		

Additional literature			
Authors	**Name of the publication, publisher**	**Year**	**Pages**
			-

Obligations, forms of knowledge check and assessment	**Type of student evaluation**	**Points**	**Percentage**
	attendance at lectures / exercises	4+4	8%
	Colloquium I and II + Written exam	20+22	42%
	Graphic works	20	20%
	final exam (oral / written)	30	30%
	Total	100	100 %

Web page	http://www.maf.ues.rs.ba/PDF_za_sajt/ZAJEDNICKI_I_II_2017/Inzenjerska%20grafika.pdf (in Serbian

	language)
Date of certification	