BACHELOR'S PROGRAMME 1st YEAR OF STUDY, 1st SEMESTER

COURSETITLE	COMPUTER ASSISTED GRAPHICS	
COURSECODE		
COURSE TYPE	full attendance	
COURSE LEVEL	1 st cycle (bachelor's degree)	
YEAR OF STUDY, SEMESTER	1 st year of study, 1 st semester	
NUMBER OF ECTS CREDITS	5	
NUMBER OF HOURS PER WEEK	4 (2 lecture hours + 2 laboratory hours)	
NAME OF LECTURE HOLDER	Assoc. prof. dr. Valentin POHOATA	
NAME OF LABORATORY HOLDER	Assoc. prof. dr. Valentin POHOATA	
PREREQUISITES	Advanced level of English	
A PROFESSIONAL AND TRANSV	ERSAL COMPETENCES	
 Data processing and r Transversal competences: The application, in the technological transfer code of professional estrategy Identifying roles and r within the team. Identifying continuous techniques for your or 	onents of computer systems, using algorithms, protocols, languages, data structures. management using dedicated IT systems. e context of compliance with the legislation, of intellectual property rights (including r), of the product certification methodology, of the principles, norms and values of the ethics within the framework of one's own rigorous, efficient and responsible work esponsibilities in a team and applying effective communication and work techniques a training opportunities and effectively capitalizing on learning resources and wn development.	
B LEARNING OUTCOMES		
	f this discipline, students will be able to:	
	nd recommendations in technical drawing;	
C LECTURE CONTENT General rules in technical drav	vina	
	in the technical drawing, indicator, tables	
Drawing parts, annotations		
Projections, views and their ar	rangement. The cube.	
	rsections, orthogonal axonometric views.	
Representation of simple bodi		
	tching, breaks, representation of threads.	
Quotation in the technical drav Isometric views	wing.	
Three-dimensional representa	tion Autodesk - AutoCAD	
Autodesk's Fusion 360 – 3D co		
Digital tools (3D printing).		
Vector graphics - The Scalable Inkscape vector editor – Web c	Vector Graphics (SVG) standard. lesign	
D RECOMMENDED READING FO	OR LECTURES	
	en tehnic, Editura "Gh. Asachi", Iași, 1996 Ihnic industrial. Elemente de proiectare, Editura Tehnică, București, 1994	
E LABORATORY/SEMINARS CO	NTENT	
	AutoCad overview (launching commands, defining the work page and managing the graphics screen, using line	
	setting instructions, choosing writing fonts)	
	Cartesian coordination. Modifying the UCS system and introducing new own coordinate	
	systems. Layout of views, sections in assisted drawing. Introduction of hashes. Modification of entities drawn in AutoCad.	
	Drawing some typical landmarks. 3D drawing of screws, nuts, washers, etc. Viewing modes AutoCad / Fusion360	
	drawings in Lithography format used by 3D printers.	
Information management in co	omputer-aided drawing and design. Virtual printing in pdf, png, jpg, svg format. mputer-aided drawing. Applications	
	s and applications. Free choice drawing.	
	f a piece received individually using AutoCAD/Fusion360/Inkscape	
RECOMMENDED READING FO		
	usion 360 Book, 2-nd edition, CADCAMCAE USA.	
2. Online manual: https://ink		

2. Online manual: https://inkscape.org/learn/books/

G EDUCATION STYLE	
LEARNING AND TEACHING	Lecture, guided discovery, debate, problem solving
METHODS	
ASSESSMENT METHODS	Homework / Project
LANGUAGE OF INSTRUCTION	English