SYLLABUS

Basic data of the course:		
Academic unit:	Faculty of Engineering and Informatics	
Course title:	Polymer materials processing technique	
Level:	Bachelor	
Course status:	Election	
Year of studies:	III	
Number of hours per week:	2+2	
Value in credit – ECTS:	6	
Time / location:	9.00 – 12.15 / Room 204	
Course teacher:	Mr.sc.Fatmir Çerkini	
Contact details:	Office nr.116, tel. 044 219 128,	
	fatmirqerkini@gmail.com,	
	fatmir.qerkini@uni-pr.edu	
	ratimi .qci kim @ um-pr.cuu	
Aim of the course:	Introduction. Construction of polymer materials. Additions (additives). Methods of obtaining polymer materials. Storage and regulation of polymer materials. Processing properties of polymer materials. Methods for controlling polymer materials. Methods of processing polymer materials. Modeling. Extrusion. Extrusion-blowing method. The principle of injection. Foam Polymers Injection Pressure Processing (TSG). Laminating of plastic materials. Impregnation. Flush with liquid compression. Diaphragm fracturing. Vacuum forming. Rotation forming. Stamping. Laminators. Coextrusion process. Injection pressure with internal gas pressure. Stamping with injection. Sintering. Assembly of articles of plastic materials. Welding assembly. Some rapid prototype modeling technologies	
Aim of the course:	Introducing students to polymer materials used in machinery and other structures. Introducing students to the methods of processing polymer materials. Storage and adjustment of mat.pol. Their processing properties Methods for controlling polymer materials as well as assembling articles from m.p.	
Expected outcomes from learning:	After completing this course (course) the student will be able to: 1. Recognize the processing properties of polymer materials, 2. Know the methods of processing polymer materials and work them. 3. Know the methods for controlling polymer materials 4. Know how to assemble polymer materials	
	ould correspond to the student's learning)të studentit)	
Activity	Hour Day / week Total	

Lectures	2	15	30
Theoretical / laboratory exercises	2	15	30
Practical work	-	-	-
Contacts with the teacher /	1	15	15
consultations			
Field exercises	-	-	-
Tests, seminars	2	2	4
Homework	1	15	15
Student self time study	2	15	30
Final exam preparation	1	15	15
Time spent in evaluation (tests, quizzes,	1	2	2
final exam)		_	_
Projects, presentations,etc	0.5	15	7.5
Total			148.5
Teaching methodology:	Lectures and e	xercises combined w	rith case studies and
	classroom disc	ussions	
Evaluation methods:	_	assignments. n 35% tion 35% 15% 15%	% of the grade. d answers, open-ended
Literature			
Basic literature:	polimere (disp – Ferizaj,200	pensë), Fakulteti i 5	unimit të materialeve Shkencave të Aplikuara
Additional literature:	ORGA 2. Zehev POLY 3. Ing.M MATI 4. Dipl.in PLAS Beogr 5. ENCY 6. Kemij	ANIKE", Tiranë 19 Tadmor, Costas Go MER PROCESSIN iroslav Nadj,,POL ERIJALI", Zagreb nž.Bogdan Rapajič TIČNIH MASA E	ogos "PRINCIPLES OF IG"-New Jersey,2006 IMERNI E"PRERADA KSTRUDIRANJEM", TANNICA 2003 IROMOS" -

Designed lesson plan :	
Week	The lecture to be held
Week one:	Introduction. Background. Building. Additions (additives).
	Literature: Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week two:	Methods of obtaining polymer materials. Storage and
	regulation of polymer materials. Comparison of plastic masses
	with metals. Identification of plastic masses. Processing
	properties of polymer materials.
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week three:	Methods for controlling polymer materials.
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week four:	Methods of processing polymer materials. Modeling. Extrude
	technology.
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week five:	Extruding pipes and profiles. Calibration of pipes. Extrusion of
oveck nve.	corrugated pipes. Mistakes, defects in the pipe extrude
	technology, the cause and elimination of mistakes.
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week six:	Extruding profiles. Production of sheets and plates by
Week six.	extrusion.
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week seven:	Extruding-blowing method. The principle of injection.
Treek seveni	Literatura: Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
First evaluation	
Week eight:	Injection channel types. Tunnel-shaped injection system.
- 11 cc. c.g	Special distribution channel systems. Shortcomings in the
	treatment of injection molded thermoplastics and related
	solutions.
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week nine:	Processing expect the injection of polymers sparkling (TSG).
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week ten:	Production of hollow bristles by means of inflatable. Extruded-
	bristle method. Injectable press bridging.
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week eleven:	Plastic laminating. Impregnation. Principle of calendering of
	plastic materials.
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week twelve:	Flush with liquid compression. Diaphragm fracturing. Vacuum
	forming. Rotational forming.
	Literature : Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week thirteen:	Stamping. Laminators. Coextrusion process.
	stamping. Earninators. Cocarriston process.

	Literature: Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week fourteen:	Production of spiral pipes. Welding methods of pipes.
	Assembly of plastic articles. Welding assembly.
	Literature: Fatmir Çerkini, Teknika e përpunimit të
	materialeve polimere
Week fifteen:	Appendix. Injection of elastomers. Processing of injection
	moldings. Injection pressure with internal gas pressure.
	Stamping by injection. Some modeling technology to quickly
	prototype
	Literature: Fatmir Çerkini, Teknika e përpunimit të
Second evaluation	materialeve polimere

Academic policies and rules of conduct

Set etiquette policies in line with USHAF status.

The teacher sets the criteria for regular attendance at lectures and exercises and rules of conduct such as: keeping calm in class, switching off cell phones, entering the room on time, etc.