MM3313

Study program / gourses Machanical anginageing							
Type and level of study: Master academic studies							
Lype and rever of study: Triaster academic studies							
Course: recimology of plastic mass processing							
I cachers: Doguan Neuro							
Status of course: Elective for module M ₁ , in semester							
INUILIDET OF EC-15: 0							
Precondition: none							
The objective of course							
Present and explain basic technologies of plastic mass processing. Demonstrate some processing methods							
and point to the important elements from aspects of right choice of technological parameters. Train							
students to apply these technologies during manufacture of different plastic products. Enable students for							
construction of simple tools for manufacture by injection spraying							
The outcome of course							
During this course students gain necessary knowledge about plastic masses, their characteristics,							
characteristics of final products, technology for manufacture of plastic elements, and basic characteristics							
of tools used for manufacture of plastic elements. Students will be enabled to construct simple tools and							
prepare project documentation of advanced tools for manufacture by spraying							
Syllabus							
Theoretical study							
Course consists of several subsections:							
- plastic masses: sorts, classification, characteristics, technological behaviour, investigations;							
- projecting of plastic elements;							
- technological methods for plastic manufacture; KALANDROVANJE, pressing (regular, indirect,							
injection), spraying, extruding (production of foils, tubes, bottles, stripes, plates and sheets), thermal							
shaping, welding, cutting etc;							
- equipment, machines and tools for manufacture of plastic elements;							
- conception alternatives and tool structure for manufacture of plastic elements;							
- standard tool elements, tool materials;							
- modern methods for tool design;							
- design of tools for injection spraying of plastic masses and tools for other methods;							
- plastic recycling							
Practical classes: Practice other forms of lectures research projects							
Fractice cusses: Fractice, other forms of lectures, research projects							
planing laboratory practice students are becoming capable to choose and define technologies of plastic elements manufacture, know about machines and other acquimment with coal to have and							
prastic elements manufacture, know about machines and other equipment with goal to buy and service them. During visits of companies students will learn about modern machines for manufacture							
of tool elements for plastic mass processing and about available technologies for manufacture of							
nlastic elements. During research projects students will be enabled to conduct basic research in the							
area of the course							
area of the course.							
Kecommendeu reading 1. Nadić R. Dukić V : Dlastična masa skripta Mačinski fakultat Kragnianas 2004							
1. INCUR, D., DUNIC, V., Flashelle mase, skripta, Mashiski fakullet, Klagujevač, 2004. 2. Nadić B. Tahnalogija praroda plastičnih masa, skripta. Mačinski fakultat. Kragujava, 2007.							
2. Induc, D., Tempologije prerade plasticimi masa, skripta, infasiliski fakultet, Kragujevač, 2007. 2. Naž M. Dolimerni meterijali autorovo izdanio i Multigraf Zagrab. 1001							
5. Ivau, IVI., FOIIIICHII HIAICHJAH, AUROPOVO IZUAIJE I IVIUIUSIAI, ZASIED, 1991.							
The number of nours of active teaching: Uther classes:							
Theory:	Pract	ical classes:	Other form	ns of	Research study:		1
3	3 1.4 teach		teaching:	0.6 0			
Methods of teaching							
Evaluation of knowledge							
Pre-final exam			Final avam				
obligations		points		r mai exam		points	
Activities during the		10					
classes:							
Practical classes:		10+20= 30		Oral exam		30	
Colloquiume(e)		15+15=30				- *	
Conoquiums(s)	13+13-30						
Seminar(s) :							