


Discipline	Technologies for manufacturing billets code: 20 3 semester – /winter/	
Specialty	Industrial Management	
ECTS credits: 5	Form of assessment: exam	
Lecturer	assoc. professor / scientific title/ Plamen Petrov /name/ Room 204 M Phone: +359 878148152 E-mail: plpet@tu-varna.bg, petpl@abv.bg	
Department	Material Science and Technology	
Faculty	Faculty of Manufacturing Engineering and Technology	

Learning objectives:

Object of the study are the technologies for the extraction of ferrous metals, powder metallurgy technology of casting production technology for the processing of metals by plastic deformation, the technology of welding production, assembly technologies, technologies for the production of articles from polymers and elastomers and Technology improve the properties of the materials and coatings.

/ANNOTATION/

The aim of the course " Technologies for manufacturing billets " is to acquaint students with the basic technologies used for processing of machine building materials. Discussed are the main methods and technologies in machine manufacturing. Students should be familiar with the terminology and basic principles of machine processes, which will serve as the technological foundation for the future engineer.

Educational content taught in lectures and laboratory practical classes where students acquire practical knowledge.

CONTENTS:		
Training Area	Hours lectures	Hours seminar exercises
Fundamentals of Metallurgy Technology	4	2
Technology of casting production	6	8
Methods of preparing the art castings.	4	-
Treatment of metals by plastic deformation	4	8
Welding of metal	4	8
Technology of polymer processing	4	2
Method for the preparation of protective and decorative coatings	4	-
TOTAL: 60 h	30	30