

SUBJECT:	Innovation & Product Design		
HOURS:	30/15	ECTS:	4
semester	6	Academic year	3

Name/title of the author:	Marta Gollinger-Tarajko/ Associate Professor Marcin Paprocki/ MSc
Course Description:	Knowledge of the products development modern strategies, facilitating innovation products designing. Eco-design. Knowledge of development CAD methods in production preparation stage.
Learning Outcomes (Goals and Objectives of the course):	Knowledge of the products development modern strategies, facilitating innovation products designing. Growth of students eco-awareness with special stress on eco-designing. Knowledge of development CAD methods in production preparation stage.
Entrance qualifications:	Certain level of technology and design knowledge.
Course Content:	Design and construction – design goal and tools. Design process range. Design contexts. Design in free market conditions. Design quality and production quality. Product and process innovations. Companies in the face of innovation. Eco-innovations. Principles of eco-designing. Organization of the design process. Product status. Product design specification. Modeling and prototype preparation in design. New product development. Designing materials. Material selection procedure. Designed product functionality. Production methods. Linking methods. Computer systems aiding design process.
Assessment policy (examination):	Project, Exam of theoretical knowledge
Course materials/bibliography:	Branowski B.: Wprowadzenie do projektowania, PWN Warszawa 1998. Ashby M. : Materiały w inżynierskim projektowaniu, WNT-2002. Ginalski J., Liskiewicz M., Seweryn J.: Rozwój nowego produktu, wyd. Akademia Sztuk Pięknych w Krakowie, 1994. Chlebus E.: Techniki komputerowe CAD w inżynierii produkcji, PWN Warszawa 2000.
Methods of Instruction:	Lectures, design exercises.
Notes / suggestions:	