Course Unit Descriptor

Study Programme: Production Engineering			
Course Unit Title: Contemporary Casting Technologies			
Course Unit Code: P2403			
Name of Lecturer(s): Lazar Kovačević, Pal Terek			
Type and Level of Studies: Bachelor level			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): Winter			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 6			
Prerequisites: None			
Course Aims: Introducing students with the contemporaty casting technologies.			
Learning Outcomes: Students attending the course will gain necessary knowledge to manage technology department of modern foundries in order to produce parts of top quality. Student will be able to use latest computer methods including the filling and solidification simulations.			
Syllabus: Viscosity and fluidity. Castability. Gating and risering system design. Casting solidification. Residual stresses. Casting simulations. Casting defect analysis. Casting of magnesium alloys. Casting of titanium alloys. Lost foam casting			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours:	**Lectures:**	**Practical work:**	
Teaching Methods: Lecture forms: lectures, auditory, laboratory and computer practical classes, consultations.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	**Final exam**	points
Group Assignment		Examination Assignment	
Exercises			
Test			
Test			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			