Description of an Individual Course Unit	
Chemistry	
Chemistry	
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Ietallurgy	
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he course (mandatory/elective)	elective
changes of microstructure during phase trans l properties, which is basis for understanding g, structure and properties in metallic materia	the relationship between chemical
to changes in microstructure and determines	
terogenous transformations. Diffusional and on-equilibrium (TTT and CCT). Influence of ne, plane defects. Dislocation theory. Types of purces, movement of dislocations, Unit and pu- d slip and twinning. Stress-strain curves, plas d grain refinement strengthening. Hall-Petch and grain growth. Kinetics of recrystallizatio lized materials.	f cooling rate on mechanism and of dislocations, geometry, Burgers artial deislocations, Plastic tic instanbility, strain rate sensitivity. equation. Solid solution and particle
y and deformation behaviour.	
чврстоће и пластичности, ТМФ, Београд (1986	)
2 Ђ.Дробњак, Скрипте, ТМФ Београд 1993	
3 R.W.Cahn, P.Haasen, Physical Metallurgy, Elsevier 1996	
4 W.F.Hosford, Physical Metallurgy, CRC Press 2010	
in metals and alloys, 2nd ed., Butterworth-Heinem	ann, 1996.
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search work	Other activities
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