Information sheet for the course Seminar in Physical Chemistry of Materials

University: Ale	exander Dubče	k University of	Trenčín		
Faculty: Facult		1 1			
Course unit co		0		t le: Seminar in F	Physical
			Chemistry of M		-
Type of course	unit: optional				
Planned types,	learning activ	ities and teach	ing methods:		
Lecture:	8		8		
Seminar: 2 hour	rs weekly/26 ho	ours per semeste	er of study; face to	face	
Laboratory tuto	•	1	0 0 0	0	
Number of cre					
Recommended	semester: 3 rd	semester in the	^{1 st} year full-time		
			1 st year part-time		
Degree of study					
Course prereq					
* *		nts will write o	control tests which	h must he ohtai	ned at least 60%
scoring, at each					
Learning outco		irse unit:			
0			vith the physical la	ws governing che	mical processes in
			of the structure and		
		0	ical processes. He		
equilibrium and	power lines in el	ectrolyte solutio	ns. He is able to ap	ply the chemical i	kinetics for various
chemical reaction	<i>1S</i> .				
			riables. Characteri		
U U	•		l energy and therm	•	1,5
· ·			odynamics. Carno		•
			component and mult		
			on. Raoult's law. H		
			nt. The dependenc ctrolytic dissociatio		
			emical equilibrium		
			e product of solubi		
			cells. Electrode p		
•	•		odes. Concentration		•
			first, second, third		
reactions - Count	ter, parallel, seq	uential reactions	s. The effect of temp	perature on the real	action rate. Theory
of active precipite	ation. The theory	of absolute read	ction rates.		
Recommended					
1. V. KELLÖ, A. T				· 1/ · 4154 D	. 1 1000
			1e cvičenia z fyzikálne va 1999, ISBN: 80227		atislava 1990.
			chémie, ALFA,Bratisl		
5. L. ULICKÝ: FYZ	ZIKÁLNA CHÉMI.	A I, STU, BRATIS	LAVA 1996.		
		, Bakalářský kurs,	VŠCHT Praha, 2005,	ISBN 80-7080-559	9-5
Language: Slow	vak				
Remarks:					
Kullai K5.					
Evaluation hist	tory: The total	number of stud	ents assessed: 0		
	t ory: <i>The total</i> B	number of stud C	ents assessed: 0 D	E	FX

Lecturers: Mgr. Jana Šulcová, PhD.
Last modification: 31.03.2014
Supervisor: prof. Ing. Darina Ondrušová, PhD.