

ENERGY SCIENCE AND TECHNOLOGY BACHELOR PROGRAM

Course Details										
Code					Academic Year			Semester		
NWI202					4			8		
Title						Α	L	ECTS		
Physical Chemistry II	3 1 1 6									
Language	German									
Level	Undergraduate	х	Graduate		Postgra			duate	duate	
Department / Program	Energy Science and Te	echnology								
Forms of Teaching and Learning	Formal									
Course Type	Compulsory		х		Elective					
Objectives	In this course, studen taking place at the ele chemical equilibrium dynamics in a basic measuring physico-ch	nts will dea ctrodes and calculatior sense. The emical quar	l with the ph d the molecul ns. They will y will acquir ntities and pr	nase bel ar basis unders e impor ocesses	ani ani tani tani	or of r d the la d cher t expe	eal sys aws of nical k riment	stems, th thermod inetics a tal techr	ne processes lynamics and and reaction nical skills in	
Content	Theory: Solution reactions, Electrochemistry, Reaction kinetics, Atmospheric chemistry, Quantum Mechanics Experimental: Phase Diagrams for Two Component Systems, pH effect in Solvoy reactions, Double diffraction of light in Nematic Fluids, Viscosity of liquids, Heat of vaporization, Inversion of sugar, Viscosity of gases, Decomposition of diacetonol alcohol, Charge transport in electrolyte solutions, pH-balance in buffer solutions, Object equation, Aqueous Solution Reactions									
Prerequisites										
Coordinator										
Lecturer(s)	Asst. Prof Sibel Özenle	er								
Assistant(s)										
Work Placement	No									
Recommended or Required Reading										
Books / Lecture Notes	G. Wedler: Lehrbuch der Physikalischen Chemie; VCH, 5. Aufl., 2004									
Other Sources	P.W. Atkins: Physikalische Chemie; VCH-Wiley, 4. Aufl., 2006 T Engel/P. Reid; Physikalische Chemie									
Additional Course Material										
Documents										
Assignments										
Exams										
Course Composition										



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5	Chemical bond									
6	Electromagnetic spectrum									
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Contribution Level 1: Low 2: Low-Intermediate 3: Intermediate 4: High 5: Very High										
Compiled by:										
Date of Compilat	tion: 24.08.2022									