Module: Modern Inorganic Molecule- and Solid State Chemistry

University/Department/Institute: Freie Universität Berlin/Department of Biology, Chemistry, Pharmacy/Institute of Chemistry and Biochemistry

Module supervisors: Lecturers of the module

Entrance Requirements: none

Goals of Qualification: Students have basic knowledge of inorganic molecule and solid state chemistry and of the application of inorganic compounds in different fields of Chemistry and related sciences as well as in everyday life. They are able to solve problems relating to the discussed topics independently and in groups.

Contents: Application of complex inorganic compounds as catalyzers for the synthesis of fine chemicals and in the commercial industry, activation of small molecules, functional coordination complexes, relevance of inorganic compounds as electronic and magnetic substances, application in medicine, aspects of solid state chemistry

Teaching methods	**Hours of attendance** (Hours per week)	**Forms of active participation**	**Workload** (hours)	
Lectures	3	-	Presence (L) Pre-, post-preparation (L)	45 45
Tutorials	1	Solving assignments, Contributions to topic related discussions	Presence (T) Pre- , post-preparation (T) Exam preparation and examination	15 15 30
Language offer of lecture		German		
Compulsory regular attendance		Attendance is recommended		
Workload (total)		150 hours		5 CP
Length of module		One semester		
Examination		Exam (120 minutes); The exam can also be conducted electronically		
Lecture is offered		Every summer semester		
Applicability		Bachelor study program Chemistry		