

Schedule for KZ8012 Introduction to Materials Chemistry, HT19

T=theory, E=exercise, S=seminar L=Lab,

Lecturers: Aji Mathew (AM), Zhijian Shen (ZS), Alexander Lyubartsev (AL), Zoltan Bacsik (ZB), Jekabs Grins (JG)

Lab and exercise assistant: Mirva Eriksson(ME)

Theory: 9 hp, Lab: 2 hp, Project work: 4 hp

9:15-12:00		13:00-17:00
4-nov		T0: Intro (all) + T1: introduction to Mat chem (AM) C545
5	T1: Research Outlook in Materials Chemistry (AM) C516	S0: Intro: Seminar assignments (ME) C516N L0: Intro: Project work assignments (ME) C516N
6	T2: Nanosafety (AL) C516N	
7	T3: Spectroscopic techniques (ZB) C516N	
8	E1: Spectroscopy (ZB) C545	S1: Seminar preparation (ME) C516S L1: Project work (ME) C516S
11	T4: Small molecules and bionanomaterials (AM) C545	
12	T5: Life cycle analysis of materials (invited lecture, Anna Björklund, KTH) C516N	T6: Polymers and Composites (AM) C516N
13	T7: Surface properties and char. methods (AM) C545	E3: AFM (Lab C270)
14	L2: Project work (ME)	
15	T8: Liquid st. synthesis and processing (ZS) C516N	
18	T9: Solid state. synthesis and sintering (ZS) C545	
19		
20	T10: Mech. properties and char. methods (ZS) C516N	E2: Mechanical props. (ZS) Lab K207
21	T11: Metals (ZS) C516N	T12: Glasses and ceramics (ZS) C516N
22	T13: Nanomaterials (ZS) C516N	T14: Solid Ionic conductors (JG) C516N
25	T15: Membranes and adsorbents (ZB) C516N	
26	T16: Optical and photonic materials (JG) C516N	
27	T17: Biomimetic and bioinspired materials (AM) C516N	T18: <i>Materials Chemistry and Society (13-15) seminar (15-17) (AM) C516N</i>
28	<i>Re-Exam Solid State Chemistry</i>	
29	L3: Project work (ME) (Lab)	L4: Project work (ME) (Lab)
2-dec	S2: Seminar preparation C513	S3: Seminar preparation C513
3	L5: Project work ((ME) (Lab))	L6: Project work (ME) (Lab)
4	L7: Project work (ME) (Lab)	L8: Project work ((ME) (Lab))
5	L9: Project work (ME) (Lab)	L10: Project work (ME) (Lab)

6	S4: Seminar preparation	S5: Seminar preparation
9	S6: Seminar preparation	S7: Seminar preparation
10	S8 Seminar preparation	S9: Seminar preparation
11	S10: Seminar presentation and discussion C516N	S11: Seminar presentation and discussion C516N
12	L11: Project work (ME) (Lab)	L12: Project work (ME) (Lab)
13	L13: Project work (ME) (Lab)	L14: Project work (ME) (Lab)
16	L15: Project work (ME) (Lab)	L16: Project work (ME) (Lab)
17	L17: Project work (ME) (Lab)	L18: Project work (ME) (Lab)
18	L19: Project work (ME) (Lab)	L20: Project work (ME) (Lab)
19	L21: Project work (ME) (Lab)	L22: Project work (ME) (Lab)
20	L23: Project work (ME) (Lab)	L24: Project work (ME) (Lab)
23	<i>Holidays</i>	
24	<i>Holidays</i>	
25	<i>Holidays</i>	
26	<i>Holidays</i>	
27	<i>Holidays</i>	
30	<i>Holidays</i>	
31	<i>Holidays</i>	
1-Jan	<i>Holidays</i>	
2	<i>Holidays</i>	
3		
6		
7		
8		
9	L21: Presentation of project work C513	L21: Presentation of project work C513
10	Course overview discussion (AM/ZS) C516N	
15	Examination (9-14) C516N	