

## Schedule for KZ8012 Introduction to Materials Chemistry, HT17

T=theory, E=exercise, S=seminar (C516N/ C545/ C513), L=Lab,

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

Lab and exercise assistant: Mirva Eriksson(ME), Chuantao Zhu (CZ)

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

Date	9.15-12	13-17
31-oc		T0: Intro (all) + T1: introduction to Mat chem (AM) <b>C516N</b>
1-nov		
2	T1: <i>Research Outlook in Materials Chemistry (09-11:00) (AM) C516N</i>	S0: Seminar assignments (ME+CZ): <b>C516N</b> L0: Project work assignments (ME+CZ) <b>C516N</b>
3	T2: <i>Nanosafety (AL) C516N</i>	
6	T3: Life cycle analysis of materials (invited lecture, Anna Björklund, KTH) <b>C516N</b>	
7	T4: Small molecules and bionanomaterials (AM) <b>C516N</b>	S1: Seminar preparation (ME+CZ) <b>C516N</b> L1: Project work (ME+CZ) <b>C516N</b>
8	T5: Polymers and Composites (AM) <b>C545</b>	
9	T6: Spectroscopic techniques (ZB) <b>C545</b>	E1: Spectroscopy (ZB)
10	T7: Surface properties and char. methods (AM) <b>C545</b>	E3: AFM (CZ)
13	T8: Liquid st. synthesis and processing (ZS) <b>C545</b>	
14	T9: Solid state. synthesis and sintering (ZS) <b>C545</b>	
15	T10: Mech. properties and char. methods (ZS) <b>C516N</b>	E2: Mechanical props. (ZS)
16	T11: Metals (ZS) <b>C513</b>	
17	T12: Glasses and ceramics (ZS) <b>C516N</b>	
20	T13: Nanomaterials (ZS) <b>C513</b>	
21	T14: Solid Ionic conductors (JG) <b>C513</b>	
22	T15: Membranes and adsorbents (ZB) <b>C513</b>	
23	T16: Optical and photonic materials (ZS) <b>C513</b>	
24	T17: Biomimetic and bioinspired materials (AM) <b>C513</b>	T18: <i>Materials Chemistry and Society (13-15) Seminar (15-17) (AM) C513</i>
28	<i>Exam Solid State Chemistry</i>	L2: Project work (ME+CZ)
29	L3: Project work (ME+CZ)	L4: Project work (ME+CZ)
30	S2: Seminar preparation <b>C516 N</b>	S3: Seminar preparation <b>C516 N</b>
1-dec	L5: Project work (ME+CZ)	L6: Project work (ME+CZ)

4	L7: Project work (ME+CZ)	L8: Project work (ME+CZ)
5	L9: Project work (ME+CZ)	L10: Project work (ME+CZ)
6	S4: Seminar preparation <b>C516 N</b>	S5: Seminar preparation <b>C516 N</b>
7	S6: Seminar preparation <b>C516 N</b>	S7: Seminar preparation <b>C516 N</b>
8	S8 Seminar preparation <b>C516 N</b>	S9: Seminar preparation <b>C516 N</b>
11	S10: Seminar preparation <b>C516 N</b>	S11: Seminar preparation <b>C516 N</b>
12	S12: Seminar presentation and discussion (all)	S13: Seminar presentation and discussion (all)
13	L11: Project work (ME+CZ)	L12: Project work (ME+CZ)
14	L13: Project work (ME+CZ)	L14: Project work (ME+CZ)
15	L15: Project work (ME+CZ)	L16: Project work (ME+CZ)
18	L17: Project work (ME+CZ)	L18: Project work (ME+CZ)
19	L19: Project work (ME+CZ)	L20: Project work (ME+CZ)
20	<i>Holidays</i>	
21	<i>Holidays</i>	
22	<i>Holidays</i>	
23	<i>Holidays</i>	
26	<i>Holidays</i>	
27	<i>Holidays</i>	
28	<i>Holidays</i>	
29	<i>Holidays</i>	
30	<i>Holidays</i>	
2-jan		
3		
4		
5		
8	L21: Presentation project work <b>C516N</b>	L21: Presentation project work <b>C516N</b>
9		
10		
11	Exam (9-14,)	
12		
15		