

Schedule for KZ8012 Introduction to Materials Chemistry, HT16

T=theory (C516N), L=Lab, E=exercise, S=seminar (C516), KTH=F1, Lindstedsvägen 22

Lecturers: Zoltan Bacsik (ZB), Aji Mathew (AM), German Salazar-Alvarez (GSA), Zhijian Shen (ZS).

Lab and exercise assistant: Korneliya Gordeyeva (KG).

Theory: 7 hp, Lab: 2 hp, Project work: 3 hp, Materials chemistry and society: 3 hp

Date	9.15-12	13-17
31-oc		<i>KTH: Introduction and Scientific Knowledge (13-15)</i>
1-nov	T0: Intro (all) + T1: introduction to Matchem (GSA)	S0: Seminar assignments (GSA+KG)
2	<i>KTH: Hypothesis Testing (08-10)</i>	L1: Project work assignments (KG)
3	T2: Liquid st. synthesis and processing (GSA)	S1: Seminar preparation
4	T3: Solid st. synthesis and sintering (ZS, 09-11.30)	<i>KTH: Observation and Measurement (13-15)</i>
7	T7: Polymers (AM, 09-11.30)	<i>KTH: Experiments (13-15)</i>
8	T5: Spectroscopic techniques (ZB)	E1: Spectroscopy (ZB)
9	<i>KTH: Models (08-10), Seminar (10-12)</i>	L2: Project work (KG)
10	T8: Surface properties and char. methods (GSA)	E3: AFM (KG)
11	T6: Small molecules and bionanomater (AM, 09-11.30)	<i>KTH: Statistics and how to interpret it (13-15)</i>
14	T4: Mech. properties and char. methods (ZS)	
15	T11: Composites (AM)	
16	T10: Metals (ZS)	
17	T9: Glasses and ceramics (ZS)	
18	T13: Nanomaterials (ZS)	
21	T14: Solid Ionic conductors (GSA)	
22	T12: Membranes and adsorbents (ZB)	E2: Mechanical props. (KG)
23	<i>KTH: Research Ethics (08-10), Seminar (10-12)</i>	
24	T15: Optical and photonic materials (GSA)	
25	T16: Biomimetic and bioinspired materials (GSA)	
28	<i>Exam Solid State Chemistry</i>	
29	L3: Project work (KG)	L4: Project work (KG)
30	S2: Seminar preparation	S3: Seminar preparation
1-dec	L5: Project work (KG)	L6: Project work (KG)
2	L7: Project work (KG)	L8: Project work (KG)
5	L9: Project work (KG)	L10: Project work (KG)
6	S4: Seminar preparation	S5: Seminar preparation
7	S6: Seminar preparation	S7: Seminar preparation
8	S8 Seminar preparation	S9: Seminar preparation
9	S10: Seminar preparation	S11: Seminar preparation

Date	9.15-12	13-17
12	S12: Seminar preparation	S13: Seminar presentation and discussion (all)
13		
14	L11: Project work (KG)	L12: Project work (KG)
15	L13: Project work (KG)	L14: Project work (KG)
16	L15: Project work (KG)	L16: Project work (KG)
19	<i>Holidays</i>	
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	L17: Project work (KG)	L18: Project work (KG)
3	L19: Project work (KG)	L20: Project work (KG)
4		
5		
6	<i>Holiday</i>	
9		L21: Presentation project work
10		
11		
12		
13	Exam (9-14, KG)	