

**SK2760/FSK3900 KURS-PM VT24**

Week 12 2024	Time and Location	Activity	Lecturer	Course Material
Tue, 2024-03-19	10:00 - 12:00; LIB	LE	MT	<ul style="list-style-type: none"> <li>Introduction, Diagnostic Test (L0)</li> <li>Overview of Synthetic techniques, NP Characterisation tools (L1)</li> </ul>
Wed, 2024-03-20	13:00 - 15:00;	LE	MT	<ul style="list-style-type: none"> <li>Chemical Principles, Periodic Table, Atomic Structure, Orbitals, e-distribution, Ionic charges (L2)</li> </ul>
<b>Week 13 2024</b>				
Tue, 2024-03-26	10:00 - 12:00; LIB	LE	MT	<ul style="list-style-type: none"> <li>Molecular Orbitals – MO Theory, Hybridisation, Molecular Structures, Polarity (L2)</li> </ul>
Wed, 2024-03-27	13:00 - 15:00;	EX	MT	<ul style="list-style-type: none"> <li>Chemical Nomenclature (Inorganic) (L3)</li> </ul>
<b>Week 15 2024</b>				
Tue, 2024-04-09	10:00 - 12:00; LIB	LE	MT	<ul style="list-style-type: none"> <li>➤ (PROJECTs – Intro, Groups / TOPICS)</li> <li>Solution Thermodynamics, Solubility, Precipitation, Acid-Base Equilibria (L4)</li> </ul>
Wed, 2024-04-10	13:00 - 15:00;	LE	MT	<ul style="list-style-type: none"> <li>Solution Thermodynamics, contd. (L4)</li> </ul>
<b>Week 16 2024</b>				
Wed, 2024-04-17	13:00 - 15:00;	LE	MT	<ul style="list-style-type: none"> <li>Reduction in Solution; Polyol Synt. (L5)</li> </ul>
Thu, 2024-04-18	13:00 - 17:00; BON	LAB	MT	<ul style="list-style-type: none"> <li>NP Characterisation 1 – Au NP Synthesis and DLS / Zeta potential (L6)</li> </ul>
<b>Week 17 2024</b>				
Tue, 2024-04-23	10:00 - 12:00; LIB	EX	MT	<ul style="list-style-type: none"> <li>Microemulsion Synthesis, Surfactants, Organic nomenclature, Ternary phase diagrams (L7)</li> </ul>
Wed, 2024-04-24	13:00 - 15:00;	LE	MT	<ul style="list-style-type: none"> <li>Microemulsion Synthesis, Surfactants, Organic nomenclature, Ternary phase diagrams (L7)</li> </ul>
<b>Week 18 2024</b>				
Tue, 2024-04-30	10:00 - 12:00; LIB	LE	MT	<ul style="list-style-type: none"> <li>Sol-gel Synthesis, Aqueous and non-aqueous precursors (L8)</li> </ul>
Thu, 2024-05-02	13:00 - 15:00;	LE	MT	<b>PROJECT FOLLOW-UP</b>
<b>Week 19 2024</b>				
Tue, 2024-05-07	10:00 - 12:00;	LE	MT	<b>PROJECT FOLLOW-UP (Buffer)</b>
Wed, 2024-05-08	13:00 - 15:00;	LE	MT	<ul style="list-style-type: none"> <li>Thermolysis, precursors (L9)</li> <li>Self- / Controlled Assembly (L10)</li> </ul>
<b>Week 20 2024</b>				
Wed, 2024-05-15	10:00 - 12:00;	LE	MT	<ul style="list-style-type: none"> <li>Electrochemistry, Electrochemical synthesis; Electroless Processes (L11)</li> </ul>
Thu, 2024-05-16	13:00 - 17:00; BON	LAB	MT	<ul style="list-style-type: none"> <li>NP Characterisation 2 – FT-IR on NPs (L12)</li> </ul>
<b>Week 22 2024</b>				
Thu, 2024-05-30	08:00 - 16:00	EX	MT	<b>Final EXAM</b> - Project ORAL Presentations / Group work

<b>LIB</b>	BON Library
<b>BON</b>	Nanochemistry Lab at BON
<b>MT</b>	Muhammet Toprak / <a href="mailto:toprak@kth.se">toprak@kth.se</a> / 0735519358
<b>HB</b>	Hazal Batili / <a href="mailto:batili@kth.se">batili@kth.se</a>
<b>BH</b>	Bejan Hamawandi / <a href="mailto:bejan@kth.se">bejan@kth.se</a>
<b>LE</b>	Lecture
<b>EX</b>	Exercise / Exam
<b>LAB</b>	Laboratory Theory + Practice/Demo
<b>L0 – L13</b>	Lecture materials uploaded under Modules at CANVAS