

**SK2772 HT19 KURS-PM**

Date	Time	Activity & location	Teachers	Contents, Literature
<b>Week 35 2019</b>				
Mon 26 aug	13:00 - 15:00	LE FB54	MT	Introduction, Diagnostic Test Chemicals, classifications, handling
Thu 29 aug	10:00 - 12:00	LE FB54	MT	Basic Chemical Calculations, Stoichiometry
<b>Week 36 2019</b>				
Mon 2 sep	13:00 - 15:00	LE FB54	MT	Empirical Formula, Molecular Formula, Chemical Equations
Thu 5 sep	10:00 - 12:00	LE FB55	MT	Fundamentals of Thermodynamics and Kinetics
<b>Week 37 2019</b>				
Mon 9 sep	13:00 - 15:00	LE FB54	MT	Calculations using Enthalpy, Entropy, Gibbs Free Energy
Thu 12 sep	10:00 - 12:00	LE FP21	MT	Solution Equilibrium - Solubility -Acid-Base Equil - NP Synthesis
<b>Week 38 2019</b>				
Mon 16 sep	13:00 - 15:00	LE FB54	MT	Acid-Base Equil - NP Synthesis
Thu 19 sep	10:00 - 12:00	LE FB54	MT	Silicon Wet Processing (Directional vs. Selective Etching)
<b>Week 39 2019</b>				
Mon 23 sep	13:00 - 15:00	LE FB55	Students MT	Electrochemical and Electrophoretic processes
Thu 26 sep	10:00 - 12:00	LE FB54	Students MT	Student presentations
<b>Week 40 2019</b>				
Mon 30 sep	13:00 - 15:00	LE FB54	Students MT	Student presentations
Thu 3 oct	10:00 - 12:00	LE FB54	Students MT	Student presentations
<b>Week 41 2019</b>				
Mon 7 oct	13:00 - 15:00	LE FB54	Students MT	Student presentations
Thu 10 oct	10:00 - 12:00	LE FB54	Students MT	Student presentations Silicon Wet Processing (Directional vs. Selective Etching)
<b>Week 42 2019</b>				
Mon 14 oct	13:00 - 15:00	LE FB55	MT	Green Chemistry Overview of Solution Chemical synthesis techniques
Fri 18 oct	08:00 - 13:00	EX FB54, FB55		FINAL EXAM
<b>Week 51 2019</b>				
Wed 18 dec	08:00 - 13:00	OM FB55		RE-EXAM

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<b>MT</b>	Muhammet Toprak / <a href="mailto:toprak@kth.se">toprak@kth.se</a> / 0735519358
<b>LE</b>	Lecture
<b>EX / OM</b>	Exam / Re-exam
<b>L0 – L10</b>	Lecture materials at CANVAS

**Adresses:**

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FB54, FB55, FP21	Roslagstullsbacken 21, Huvudbyggnaden, floor 5, AlbaNova Roslagstullsbacken 33, Byggnad 1, floor BV, AlbaNova
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**Final EXAM**

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Fri 18 oct; 08:00 - 13:00; [FB54](#), [FB55](#)

You must register for the exam on Mina Sidor / My Pages.

**RE- EXAM**

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Wed Dec. 18 at 8-13; [FB55](#)

**Presentation Topics** (Reference Materials are uploaded at CANVAS)

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1. Thermolysis / Hot-injection vs heat-up method	Ref material at CANVAS
2. Polyol synthesis	Ref material at CANVAS
3. Biological Synthesis – Bacteria (Book p25-42)	Ref material at CANVAS
4. Biological Synthesis – Virus (Book p42-53)	Ref material at CANVAS
5. Biological Synthesis – Plant extract (Book p79-93)	Ref material at CANVAS
6. Biological Synthesis – Zoosynthesis (Book p103-127)	Ref material at CANVAS
7. Ultrasound synthesis – Sonochemistry	Ref material at CANVAS
8. Flame Synthesis / Spray pyrolysis	Ref material at CANVAS
9. Laser ablation in solution	Ref material at CANVAS
10. Electrospinning	Ref material at CANVAS
11. Mechanochemical synthesis	Ref material at CANVAS
12. Electro explosion / Electric pulsed power synthesis	Ref material at CANVAS
13. Solution Combustion Synthesis	Ref material at CANVAS
14. Periodic mesoporous materials synthesis	Ref material at CANVAS
15. Sol-gel Synthesis	Ref material at CANVAS