

SK2760 KURS-PM HT19

| Week 35 2019 | Time and Location | Activity | Lecturer | Course Material |
|---------------------|--------------------------------|----------|----------|---|
| Mon 26 aug | 10:00 - 12:00; CSR | LE | MT | <ul style="list-style-type: none"> Introduction, Diagnostic Test Overview of Synthetic techniques, NP Characterisation tools |
| Wed 28 aug | 10:00 - 12:00; CSR | LE | MT | <ul style="list-style-type: none"> Chemical Principles, Periodic Table, Atomic Structure, Orbitals, e-distribution, Ionic charges |
| Week 36 2019 | | | | |
| Mon 2 sep | 10:00 - 12:00; CSR | LE | MT | <ul style="list-style-type: none"> Molecular Orbitals – MO Theory, Hybridisation, Molecular Structures, Polarity |
| Wed 4 sep | 10:00 - 12:00; CSR | EX | MT | <ul style="list-style-type: none"> Chemical Nomenclature (Inorganic) |
| Week 37 2019 | | | | |
| Mon 9 sep | 10:00 - 12:00; CSR | LE | MT | (PROJECT Groups / TOPICS - Intro) <ul style="list-style-type: none"> Solution Thermodynamics, Solubility, Precipitation, Acid-Base Equilibria |
| Wed 11 sep | 10:00 - 12:00; CSR | LE | MT / CV | <ul style="list-style-type: none"> Solution Thermodynamics, contd. |
| Week 38 2019 | | | | |
| Mon 16 sep | 10:00 - 12:00; CSR | LE | MT | <ul style="list-style-type: none"> Microemulsion Synthesis, Surfactants, Organic nomenclature, Ternary phase diagrams |
| Thu 19 sep | 13:00 - 17:00; FA31 – BIOX Lab | LA | MT + HB | <ul style="list-style-type: none"> Reduction in Solution; Reducing agents NP Characterisation 1 – Au NP Synthesis and DLS / Zeta potential |
| Week 39 2019 | | | | |
| Mon 23 sep | 10:00 - 12:00; CSR | EX | MT | <ul style="list-style-type: none"> Microemulsion Synthesis, Surfactants, Organic nomenclature, Ternary phase diagrams |
| Wed 25 sep | 10:00 - 12:00; CSR | LE | MT | <ul style="list-style-type: none"> Sol-gel Synthesis, Aqueous and non-aqueous precursors |
| Week 40 2019 | | | | |
| Mon 30 sep | 10:00 - 12:00; CSR | LE | MT | PROJECT FOLLOW-UP |
| Wed 2 oct | 10:00 - 12:00; M38 | LE | MT | <ul style="list-style-type: none"> Assessment-Inorganic Nomenclature Sol-gel Synthesis, Aqueous and non-aqueous precursors |
| Week 41 2019 | | | | |
| Mon 7 oct | 10:00 - 12:00; CSR | LE | MT | <ul style="list-style-type: none"> Microemulsion Synthesis, Surfactants, Organic nomenclature, Ternary phase diagrams |
| Tue 8 oct | 10:00 - 12:00; ??? | LE | MT | Repetition and summary / Reserve |
| Wed 9 oct | 10:00 - 12:00; CSR | EX | MT | <ul style="list-style-type: none"> Electrochemistry, Electrochemical synthesis; Electroless Processes Self-Assembly / Controlled Assembly |
| Thu 10 oct | 13:00 - 17:00; BIOX | LA | MT + BH | <ul style="list-style-type: none"> Thermolysis, precursors |

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| | | | | <ul style="list-style-type: none"> • FT-IR Theory • NP Characterization 2 – FT-IR on citrate capped Au NPs |
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Week 43 2019

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| Mon 21 oct | 08:00 - 17:00 | EX | MT | Final EXAM - Project ORAL Presentations / Group work |
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| CSR | Corridor Seminar Room @ Albanova, Floor 2, entrance A23 |
| BIOX | Nanochemistry Lab at BIOX |
| MT | Muhammet Toprak / toprak@kth.se / 0735519358 |
| CV | Carmen Vogt / carmenma@kth.se |
| HB | Hazal Batili / batili@kth.se |
| BH | Bejan Hamawandi / bejan@kth.se |
| LE | Lecture |
| EX | Exercise / Exam |
| LA | Laboratory Theory + Practice/Demo |
| | Lecture and Lab related materials are uploaded under Modules at CANVAS |