

LESSON PLAN

Name of Assistant/ Associate Professor : kusum

Class and section : B.Sc II N.M and medical

Chemistry Lesson Plan: 17 Week (From January 2018 to April 2018)

Week 1: Chapter 1: Chemistry of Lanthanides
Week 1: Day3, Date: 3/1/2018 <ul style="list-style-type: none">• 1.1 Introduction• 1.2 Electronic structure• 1.3 Physical properties of lanthanides
Week 1: Day4, Date: 4/1/2018 <ul style="list-style-type: none">• 1.4 oxidation states• 1.5 magnetic properties
Week 2: Day3, Date: 10/1/2018 <ul style="list-style-type: none">• 1.6 ionic radii and lanthanide contraction• 1.7 complex formation
Week 2: Day4, Date: 11/1/2018 <ul style="list-style-type: none">• 1.8 occurrence and isolation• 1.9 lanthanide compounds
Week 3: Chapter 2: Chemistry of Actinides
Week 3: Day3, Date: 17/1/2018 <ul style="list-style-type: none">• 2.1 General features and chemistry of actinides• 2.2 chemistry of separation of Np, Pu and Am from U
Week 3: Day4, Date: 18/1/2018 <ul style="list-style-type: none">• 2.3 Comparison of properties of lanthanides and actinides and with transition elements
Week 4: Day 4, Date: 25/1/2018 <ul style="list-style-type: none">• problems from chapter 1 & 2
Week 5: Day3 , Date: 31/1/2018 <ul style="list-style-type: none">• test of chapter 2
Week 5: Chapter 3: Theory of qualitative and quantitative inorganic analysis-1
Week 5: Day4 , Date: 1/2/2018 <ul style="list-style-type: none">• 3.1 Introduction• 3.2 Basic Principles of Inorganic qualitative analysis

<p>Week 6: Day3 , Date: 7/2/2018</p> <ul style="list-style-type: none"> • 3.3 Chemistry of analysis of various acidic radicals • 3.4 chemistry of identification of acidic radicals in typical combinations
<p>Week 6: Day4 , Date: 8/2/2018</p> <ul style="list-style-type: none"> • 3.5 chemistry of interference of acid radicals including their removal in the analysis of basic radicals
<p>Week 7 Day4 , Date: 14/2/2018</p> <ul style="list-style-type: none"> • problems of chapter 3

<p>Week 8</p> <p>Chapter 4: Theory of quantitative and qualitative inorganic analysis - II</p>
<p>Week 8 Day3 , Date: 20/2/2018</p> <ul style="list-style-type: none"> • 3.1 systematic analysis of basic radicals • 3.2 chemistry of various reaction
<p>Week 8 Day4 , Date: 21/2/2018</p> <ul style="list-style-type: none"> • 3.3 identification of cations of group I • 3.4 identification of cations of group II A and separation of group II B
<p>Week 10,Day3,Date:07/03/2018</p> <ul style="list-style-type: none"> • Problems From Chapter 1
<p>Week 10,Day4,Date:08/03/2018</p> <ul style="list-style-type: none"> • Test
<p>Week 11 Day3 , Date: 14/3/2018</p> <ul style="list-style-type: none"> • 3.5 identification and separation of group III
<p>Week 11 Day4 , Date: 15/3/2018</p> <ul style="list-style-type: none"> • 3.6 identification and separation of group IV
<p>Week 12 Day3 , Date: 21/3/2018</p> <ul style="list-style-type: none"> • 3.7 Schematic flow chart of group V cations • 3.8 test of Ni²⁺ in the presence of Co²⁺
<p>Week 12 Day4, Date: 22/3/2018</p> <ul style="list-style-type: none"> • 3.9 gravimetry of gravimetric analysis
<p>Week 13 Day3 , Date: 28/3/2018</p> <ul style="list-style-type: none"> • 3.10 theory of precipitation • 3.11 factors affecting solubility of precipitates
<p>Week 14 Day3 , Date: 3/4/2018</p> <ul style="list-style-type: none"> • 3.12 particle size of the precipitates
<p>Week 14 Day4 , Date: 4/4/2018</p> <ul style="list-style-type: none"> • 3.13 formation of precipitates

<ul style="list-style-type: none">• 3.14 desirable properties and contamination of precipitates
Week 15 Day3 , Date: 11/4/2018 <ul style="list-style-type: none">• 3.15 treatment of the precipitates• 3.16 fractional precipitation
Week 15 Day 4,Date:12/04/2018 <ul style="list-style-type: none">• Problems from Chapter 3

Week 16 Day 4,Date:19/04/2018 <ul style="list-style-type: none">• Test
Week 17 Day 3,Date:25/04/2018 <ul style="list-style-type: none">• Revision
Week 17 Day 4,Date:26/04/2018 <ul style="list-style-type: none">• Revision