Ankara University
Library & Documentation Department
Open Course Materials
Working Plan (Working Schedule)

Weeks	Subject Heading Weekly
1st Week	**INTRODUCTION** ○ Laboratory safety, preliminary preparations
2nd Week	**DOUBLE SALTS** ○ Preparation and applications of alums (Experiment no: 1)
3th Week	**CYTOCHIOMETRY** ○ Preparation of lead iodide (PbI_2) (Experiment no: 2)
4th Week	**ACETATES** ○ Synthesis of $Hg(CH_3COO)_2$ (Experiment no: 3) and $Mn(CH_3COO)_3.2H_2O$ (Experiment no: 4) compounds
5th Week	**SALTS** ○ Synthesis of $(NH_4)_2SO_4CuSO_4.nH_2O$ (Experiment no: 5) and $(NH_4)_2SO_4NiSO_4.6H_2O$ (Experiment no: 6) compounds
6th Week	**METAL AMMINE COMPLEXES** ○ Synthesis of $[Cu(NH_3)_4]SO_4.H_2O$ (Experiment no: 7) and $[Ni(NH_3)_6Cl_2$ complexes (Experiment no: 8)
7th Week	**METAL ACETYLACETONATE COMPLEXES AND THIN_LAYER CHROMATOGRAPHY** ○ Synthesis of $[Mn(C_5H_7O_2)_3]$, $[Fe(C_5H_7O_2)_3]$, $[Cr(C_5H_7O_2)_3]$, $[Cu(C_5H_7O_2)_3]$, $[Ni(C_5H_7O_2)_3]$ and $[Al(C_5H_7O_2)_3]$ complexes and application of thin-layer chromatography for the complexes (Experiment no: 9)
8th Week	**METAL DIOXALATE COMPLEXES AND PREPARATION OF ISOMERIC COMPLEXES** ○ Syntheses of *trans*-$K[Cr(C_2O_4)_2(H_2O)_2].3H_2O$ complex and separation of *cis*- and *trans*-isomers from each other (Experiment no: 10)
9th Week	**METAL TRIOXALATE COMPLEXES** ○ Synthesis of $K_3[Cr(C_2O_4)_3].3H_2O$ (Experiment no: 11) and $K_3[Al(C_2O_4)_3].3H_2O$ (Experiment no: 12) complexes.
10th Week	**PREPARATION OF SCHIFF BASE COMPLEXES WITH SOME METAL CATIONS** ○ Synthesis of various Schiff Bases complexes including nickel(II) and copper(II) ions (Experiment no: 13)
11st Week	**COBALT AMMINE COMPLEXES** ○ Synthesis of $[Co(NH_3)_4CO_3]NO_3$ (Experiment no: 14) and $[Co(NH_3)_5Cl]Cl_2$ (Experiment no: 15) complexes
12nd Week	**SYNTHESIS OF OTHER COMPLEXES** ○ Synthesis of $K_3[Cr(O_2)_4]$ (Experiment no: 16) and $[(CH_3CH_2)_2NH_2]_2CuCl_4$ (Experiment no: 17) complexes
13th Week	**CONDUCTING EXPERIMENTS THAT CANNOT BE DONE ON TIME** ○ All experiments.
14th Week	**CONDUCTING EXPERIMENTS THAT CANNOT BE DONE ON TIME** ○ All experiments.