

**MCHL-004 ELECTROANALYTICAL AND OTHER METHODS LAB CREDITS: 2**

**EXPERIMENTS**

1. pH titration of a strong acid (battery acid)
2. pH titration of a weak acid – determination of  $pK_a$  of acetic acid
3. Potentiometric titration of a strong acid with a strong base using quinhydrone electrode
4. Potentiometric titration of  $Fe^{2+}$  with  $Cr_2O_7^{2-}$
5. Potentiometric determination of  $Cl^-$  ion content of common salt using  $AgNO_3$
6. Conductometric titration of a strong acid with a strong base
7. Conductometric determination of acetic acid content of vinegar
8. Conductometric titration of a mixture of a strong acid and weak acid with a base
9. Identification and determination of  $Cd^{2+}/Pb^{2+}/Zn^{2+}$  by polarography
10. Amperometric Titration of  $Pb^{2+}$  with  $Cr_2O_7^{2-}$
11. Determination of the solubility of a sparingly soluble salt by radiotracer method