Department of Chemistry

College of Science

University of Salahaddin

Subject: Chemical Kinetics

Course Book – *third stage*

Lecturer's name: Dr.Rounak M. and Dr.Mazn

Academic Year: 2022-2023

Assistant: *Hawtta .* (for Practical)

Experiment -1-Determination the order of the reaction for sodium sulphite with potassium iodate in acidic medium using differential method.

Experiment -2-Determination the order of the reaction for sodium sulphite with potassium iodate in acidic medium usinghalf time method.

Experiment -3-Determination the reaction order of potassiumper sulphate with potassium iodate.

Experiment -4-Kinetics study for the reaction between acetone and iodine.

Experiment -5-Reaction for Ethyl acetate with hydroxyl ion using titration method.

Experiment -6-Determination of rate constant for Inversion of Sucrose catalyzed by hydrogen ion using polarimeter.

Experiment -7- Kinetic study for decomposition of hydrogen peroxide catalyzed by MnO2.

Experiment -8-Determination of rate constant by gas evolution method for hydrolysis of Benzene diazonium chloride.

Experiment -9-Determination of activation energy for the reaction Bromide/ Bromate ions without measuring rate constant.

Experiment -10-Kinetic study for hydrolysis of methyl acetate with hydrochloric acid;

Experiment -11-Simulation of chemical reactions

Experiment -12-Effect of Ionic strength on chemical reaction rate.

Experiment -13-Determination of activation energy for the sodium sulphite with potassium iodate in acidic medium