Syllabus for B. Sc. Semester – VI CHE - 310 (Analytical Chemistry)

 UNIT – I [A] Errors and treatment of Analytical data Significant figures, Accuracy and precision, Typoferrors. Ways of expressing accuracy and precision. Ways of expressing accuracy and precision. Literature of Analytical Chemistre coefficient. Literature of Analytical Chemistre. [B] Organic reagents used in quantitative Separation of methods with 8-Hydroxy Quin UNIT – II [A] Chromatographic methods General principle, classification of chromexchange chromatography (Ion Exchange equencity, Application of Ion Exchange results in trumentation and evolution of data. Chromatography (HPLC) Principle and Institute Chromatography (HPLC) Principle and Institute Solvent Extraction Separation Principles of solvent extraction, choice of soldistribution ratio, percentage (%) extraction. extraction of metals, selective extraction and UNIT – III Electro analytical Technical Polarography 	es of errors and minimization cision. Rejection of a result, st and F-Test) correlation y. Analysis [06 Marks] bline, Cupferron and DMG [08 Marks] atographic separation. Ion libria, Types of Ion Exchange
UNIT – II [A] Chromatographic methods General principle, classification of chromexchange chromatography (Ion Exchange equivalent), Application of Ion Exchange results Instrumentation and evolution of data. Chromatography (HPLC) Principle and Instrumentation Separation Principles of solvent extraction, choice of sold distribution ratio, percentage (%) extraction. Extraction of metals, selective extraction and UNIT – III Electro analytical Technical Polarography	line, Cupferron and DMG [08 Marks] atographic separation. Ion ibria, Types of Ion Exchange
[A] Chromatographic methods General principle, classification of chromexchange chromatography (Ion Exchange equespacity, Application of Ion Exchange results Instrumentation and evolution of data. Chromatography (HPLC) Principle and Instrumentation Separation Principles of solvent extraction, choice of sold distribution ratio, percentage (%) extraction. The extraction of metals, selective extraction and UNIT — III Electro analytical Technical Polarography	atographic separation. Ion ibria, Types of Ion Exchange
General principle, classification of chron exchange chromatography (Ion Exchange equicapacity, Application of Ion Exchange results Instrumentation and evolution of data. Chromatography (HPLC) Principle and Instrumentation Separation [B] Solvent Extraction Separation Principles of solvent extraction, choice of sold distribution ratio, percentage (%) extraction. Extraction of metals, selective extraction and UNIT — III Electro analytical Technical Polarography	atographic separation. Ion ibria, Types of Ion Exchange
Principles of solvent extraction, choice of so distribution ratio, percentage (%) extraction. extraction of metals, selective extraction an UNIT – III Electro analytical Technical Polarography	High Performance Liquid
[A] Polarography	he extraction process, solvent
[A] Polarography	ques
wave potential, Ilkovic equation, methods (Standard addition method and Calibration)	urrents, Determination of half of determining concentration
[B] Potentiometry The scope of potentiometric titrations, Protitrations, Graphical method including Graphical Differential titration, Dead stop titration, let types of Ion selective Electrodes and unelectrode.	[07 Marks cipitation and neutralization 's plot for selecting end point, n selective Electrode, various

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According to the latest Syllabus (CBCS) Inforce from June - 2013 of Gujarat University

Semester - VI

Nirav College Chemistry Paper – 310

(Analytical Chemistry)

First Edition 2016

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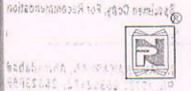
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Semester – VI

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(Analytical Chemistry)

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