

B. P. Poddar Institute of Management & Technology, Kol – 52.

DEPARTMENT OF APPLIED SCIENCE & HUMANITIES

Laboratory Name: Chemistry Lab

Course Name: Chemistry-I Laboratory

Room No.: A-102 & A-103

Course Code -BS-CH191

Academic Year: 2018-19 Semester: Odd

Programme: Electrical Engineering

COURSE OBJECTIVE

Students will able to

1	Separate and estimate acids from mixtures by separation and adsorption methods as well as measure the viscosity of fluids.
2	Estimate some parameters that affect water quality by volumetric and electrochemical titrations/experiments.
3	Gain practical knowledge to determine the rate constant of pseudo unimolecular reaction and distribution coefficient.

COURSE OUTCOMES

The combination of lecture and laboratory sessions provides learning opportunities that should enable the student to do the following upon completion of this course

Course	Course Outcome	PO(112)	PSO(12)	Bloom's
Code		MAPPING	MAPPING	Taxonomy lebvel
CH191.1 (CO1)	Analyze different components from their mixtures by adsorption and TLC method.	PO1, PO2, PO5,PO12	PSO2	L4(Analyze)
CH 191.2 (CO2)	Estimate the concentration of acid/alkali, by conductometric/potentiometric method and emf using electrochemical cells.	PO1, PO2, PO5, PO12	PSO2	L3 (Apply)
CH191.3 (CO3)	Calculate the composition of given solution using Oswald Viscometer.	PO1	-	L4 (Analyze)
CH191.4 (CO4)	Determine rate constant for hydrolysis of ester by acid catalyzedanddistribution coefficient of acetic acid between n-butanol and water	PO1	-	L3(Apply)
CH191.5 (CO5)	Determine the amount of chloride and dissolved oxygen present in a given water sample	PO1, PO2, PO7	-	L4(Analyze)

COURSE OUTCOMES VS POs MAPPING (HIGH:3; MEDIUM:2;LOW:1):

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO2
CH101.1	1	1	-	-	1	-		-	_	-	-	1	1
(CO1)													
CH101.2	1	1	-	-	1	-	_	-	_	1	-	1	1
(CO2)													
CH101.3	1	_	-	-	-	-	_	-	_	ı	_	-	_
(CO3)													
CH101.4	1	_	1	-	-	-	_	-	-	ı	-	-	_
(CO4)													
CH101.5	1	1	1	-	-	-	1	-	-	ı	-	-	_
(CO5)													
CH191	1	1	-	•	1	-	1	-	-	-	-	1	1

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Signature of Faculty	Signature of HOD