

Teaching Plan

Academic Year 2014-2015

Class:M.Sc

Semester: 1st sem

Subject:Organic Chemistry:

Paper No:CH 102 & CH102

Periods per Weks: TH 2 Prac 2

Test(Date):

Weeks	Topics To Be Covered
1	Delocalized chemical bonding, conjugation, cross conjugation Separation and Analysis of binary Mixture.
2	Fullerenes, Separation and Analysis of binary Mixture.
3	Crown ethers, cryptands Separation and Analysis of binary Mixture.
4	Aromaticity, Separation and Analysis of binary Mixture.
5	Aromaticity, Rotaxanes Separation and Analysis of binary Mixture.
6	SN1, SN2, SET Separation and Analysis of binary Mixture.
7	N.G.P, N.G.P by pi & sigma bonds, Separation and Analysis of binary Mixture.
8	P.T.C, Ambident Nucleophile Separation and Analysis of binary Mixture.
9	Effect of Leaving Group, Attacking Nucleophile Separation and Analysis of binary Mixture.
10	Effect of Reaction Medium, Structure and reactivity Separation and Analysis of binary Mixture.
11	SE1, SE2 Separation and Analysis of binary Mixture.
12	SE ¹ , Carbocations Separation and Analysis of binary Mixture.
13	Anions, Structure and reactivity of SE reactions Separation and Analysis of binary Mixture.
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Teacher Name: **ABDUL AHAD**

Teacher Signature:

HOD Signature:

Teaching Plan

Academic Year 2014-2015

Class: M.Sc –Industrial Chemistry

Semester: Ist sem

Subject: IMA&PE

Paper No: (Th) 3, (Pr) 1 & 2

Periods per Weeks: TH 4 Prac 2

Test(Date):

Weeks	Topics To Be Covered
1	Classification of reagents, Determination of acetylsalicylic acid, Solid liquid extraction
2	Study of intermediates, Velocity profile & flow Rate ,Determination of sucrose
3	Types of Mechanism, Rate of Dehydration ,Separation of iron cobalt
4	Hammonds postulates, Estimation of Na & K, Determination of Hardness.
5	Study of catalyst, To carry out distillations, Estimation of Iron
6	Huckle Rule of Aromaticity Ultimate and proximate, Preparation of organic compounds
7	Study of heterocyclic compounds Preparation of organic compounds, Study of Mixer Settler system.
8	Study of organic Acids & Bases Preparation of organic compounds, Kinetic study of flow reactor.
9	Confirmation analysis Preparation of organic compounds, Verification of Reyleign equation
10	Elements of symmetry Preparation of organic compounds, Flow through the straight tubes
11	Optical Activity Preparation of organic compounds, Batch sedimentation case
12	E & Z Nomenclature Preparation of organic compounds, Determination of percentage composition of binary mixture
13	R & S Nomenclature Preparation of organic compounds
14	Chiralaty Preparation of organic compounds

Teacher Name: **Javed Khan**

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Teaching Plan

Academic Year 2014-2015

Class:M.Sc

Semester: 2nd sem

Subject:Organic Chemistry:

Paper No:CH 102 & CH210

Periods per Weeks: TH 2 Prac 2

Test(Date):

Weeks	Topics To Be Covered
1	Aromatic Electrophilic Substitution Reactions,Introduction Organic Preparation
2	ArSE ₁ ,ArSE ₂ ,Ipso Organic Preparation
3	Diazonium Coupling,Aromatic Nucleophilic substitutions. Seperation and Analysis of binary Mixture.
4	ArSN ₁ ,ArSN ₂ Organic Preparation
5	Benzyne Reactions Organic Preparation
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Teaching Plan

Academic Year 2014-2015

Class: M.Sc –Industrial Chemistry

Semester: IIIrd

Subject: IMA&PE

Paper No: (Th) 13&15, (Pr)5&6

Periods per Weeks: TH 4 Prac 2

Test(Date):

Weeks	Topics To Be Covered
1	Spectroscopic Technique, Factors involve in Project cost Estimation method. Estimations
2	IR Spectrophoometer, Estimation of capital investment Determination of COD , Determination of common salts.
3	NMR, Compeevitve & Monopoly Markets Estimation of boric acid, Estimation of Nitrite
4	Mass Spectroscopy,Economics of the selecting Alternatives. Estimation of sulphate ,Removal of Heavy Metals
5	PH Metry, Break even point Batch adsorption studies, Esimation of Rifampicine.
6	Thermal Methods,Concept of scientific Management. Determination of Hammet Constant, Potentiometric Titration of copper
7	Process control, Decision making planning, Determination of sodium& Poassium,Seperation of Amino Acid
8	Two position & muli position modes Three step preparation of organic compounds,Estimation of phenol
9	Single speed and multi speed floating control, Material Management Three step preparation of organic compounds, Spectrophotometric Determination
10	Theory of continuous controller, Inforamtion system Three step preparation of organic compounds, Spectrophotometric Determination
11	Solving Problems ,Decision making Three step preparation of organic compounds, Spectrophotometric Determination
12	Solving Problems Three step preparation of organic compounds, Spectrophotometric Determination
13	Solving Problems Three step preparation of organic compounds, Spectrophotometric Determination
14	Solving Problems Three step preparation of organic compounds, Spectrophotometric Determination

Teacher Name: **Javed Khan**

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Teaching Plan

Academic Year 2014-2015

Class: M.Sc

Semester: 3rd sem

Subject: Organic Chemistry:

Paper No: CHO 314 & CHO-423

Periods per Weeks: TH 2 Prac 2

Test(Date):

Weeks	Topics To Be Covered
1	Introduction to green chemistry, Separation and Analysis of Ternary Mixture.
2	Ideal synthesis Separation and Analysis of Ternary Mixture.
3	Different Principles Separation and Analysis of Ternary Mixture.
4	Types of techniques Separation and Analysis of Ternary Mixture.
5	Neat Synthesis. Examples Separation and Analysis of Ternary Mixture.
6	Reaction media, Volatile & Non Volatile Separation and Analysis of Ternary Mixture.
7	Catalysis Separation and Analysis of Ternary Mixture.
8	Heterogeneous catalysis, Types Separation and Analysis of Ternary Mixture.
9	Microwave Irradiation,
10	Different Application Of MW in organic synthesis. Separation and Analysis of Ternary Mixture.
11	Sonochemistry Separation and Analysis of Ternary Mixture.
12	Instrument ,Handling of ultrasound apparatus Separation and Analysis of Ternary Mixture.
13	Different applications of ultrasound Separation and Analysis of Ternary Mixture.
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Teacher Name: **ABDUL AHAD**

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Teaching Plan

Academic Year 2014-2015

Class: M.Sc

Semester: IVth Sem

Subject: Organic Chemistry:

Paper No: CHo 314 & CHO-423

Periods per Weeks: TH 2 Prac 2

Test(Date):

Weeks	Topics To Be Covered
1	Introduction to Retro synthesis Organic Preparation
2	Synthons, Reagents Separation and Analysis of Ternary Mixture.
3	Different Guidelines Organic Preparation
4	C-X Disconnection Separation and Analysis of Ternary Mixture.
5	Examples Separation and Analysis of Ternary Mixture.
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Teacher Name: **ABDUL AHAD**

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Teaching Plan

Academic Year 2014-2015

Class:M.Sc

Semester: IV Sem & II Sem (P)

Subject: Medicinal chemistry & Organic Chemistry

Paper : No:CH 418 & CH210

Periods per Weeks: TH 2 Prac 2

Test(Date):

Weeks	Topics To Be Covered
1	Synthesis and uses of Naproxen,Ibuprofen Oxaprozin Seperation and Analysis of binary Mixture.
2	Synthesis and uses of Diclofenac Sodium Rofecoxib Celecoxib Seperation and Analysis of binary Mixture.
3	Synthesis and uses of Verapamil Captopril d-sotalol Atenolol Seperation and Analysis of binary Mixture.
4	Synthesis and uses of Diltiazem Semotiadil fumarate Diltiazem Semotiadil fumarate Seperation and Analysis of binary Mixture.
5	Synthesis and uses of Dextro Amphetamine, Doxapram Seperation and Analysis of binary Mixture.
6	Synthesis and uses of Chlorpromazine Diazepam Phenobarbitol Seperation and Analysis of binary Mixture.
7	Synthesis of ketamine and lidocaine, Seperation and Analysis of binary Mixture.
8	Synthesis and uses of Chloramphenicol Ampicillin Amoxycillin Cefepime Seperation and Analysis of binary Mixture.
9	Synthesis and uses of Cefpirome, Ethambutol, Acyclovir, Seperation and Analysis of binary Mixture.
10	Synthesis and uses of Troglitazone, Chlorpropamide Seperation and Analysis of binary Mixture.
11	Synthesis and uses of Tolbutamide, Sulfamethoxazole Seperation and Analysis of binary Mixture.
12	Synthesis and uses of Fluorouracil Seperation and Analysis of binary Mixture.
13	Synthesis and uses of Chlorambucil, Cis-Platin Seperation and Analysis of binary Mixture.
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Teacher Name: **MOHSIN ABDUL AZIZ**

Teacher Signature:

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