Lesson Plan for Session 2021-22 (Even Semester) B. Sc. 1st Year (2nd Semester)

Paper-V (CH-104) Inorganic Chemistry (Theory) Name of Assistant Professor: Dr. Rajiv Kumar

Sr. No.	Time Periods	Topics/Chapters to be covered	Topic of Assignment/ Tests to be given to students
			Assignment
1	21/03/22- 31/03/22Hydrogen Bonding & Vander Waals ForcesHydrogen Bonding – Definition, Types, effects of hydrogen bonding on properties of substances, application Brief discussion of various types of Vander Waals Forces		a and a second second
2	01/04/22- 30/04/22	Metallic Bond and Semiconductors Metallic Bond- Brief introduction to metallic bond, band theory of metallic bond. Semiconductors- Introduction, types and applications. s-Block Elements Comparative study of the elements including, diagonal relationships, salient features of hydrides (methods of Preparation excluded), solvation and complexation tendencies including their function in biosystems. Chemistry of Noble Gases Chemical properties of the noble gases with emphasis on their low chemical reactivity, chemistry of xenon, structure and bonding of	Test of chapter- Hydrogen Bonding & Vander Waals Forces and Metallic Bond and Semiconductors
3	01/05/22- 30/05/22	fluorides, oxides & oxyfluorides of xenon. p-Block Elements Emphasis on comparative study of properties of p-block elements (including diagonal relationship and excluding methods of preparation). Boron family (13th group) Diborane – properties and structure (as an example of electron deficient compound and multicentre bonding). Borazene chemical properties and structure Trihalides of Boron – Trends in fewis acid character structure of aluminium (III) chloride. Carbon Family (14th group) Catenation, p= d= bonding (an idea). carbides. fluorocarbons. silicates (structural aspects), silicons– general methods of preparations, properties and uses. Nitrogen Family (15th group) Oxides – structures of oxides of N,P. oxyacids – structure and relative acid strengths of oxyacids of Nitrogen and phosphorus. Structure of white, yellow and red phosphorus.	
4	01/06/22- 15/06/22	Oxygen Family (16 th group)Oxyacids of sulphur – structures and acidic strength H2O2- structure, properties and uses.Halogen Family (17 th group)Basic properties of halogen, interhalogens types properties, hydro and oxyacids of chlorine – structure and comparison of acid strength.	
4	5 15/06/22 to till exam	Devision	Test

Rap (Dr. Rajiv Kumar)

Lesson Plan for Session 2021-22 (Even Semester) B. Sc. 2nd Year (4th Semester)

Paper-XM(CH-206) Organic Chemistry (Theory) Name of Assistant Professor: Dr. Rajiv Kumar

Time o. Topics/Chapters to be covered Assignment/ Tests to be given to students 21/03/22- 31/03/22 Amines Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid. Test of chapter- Amines 2 01/04/22- 30/04/22 Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H. OH, F. Cl, Br. I. NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application. Assignment 3 01/05/22- 30/05/22 Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectra of simple organic compounds. Applications of IR spectra of asimple organic compounds. Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength, Preparation of arboxylic acids. Reactions of carboxylic acids. Test of Diazoniu			Name of Asses	opic of
Interview to be given to students 21/03/22- 31/03/22 Amines Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines reduction of nitro compounds, nitriles, reductive amination of aldehydic amine ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid. Iest of chapter- Amines 2 01/04/22- 30/04/22 Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H. OH, F. Cl. Br, L. NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application. Scoupling reaction of IR spectroscopy Assignment 3 01/05/22- 30/05/22 Infrared (IR) absorption spectroscopy and interpretation of IR spectroscopy in structure and bonding; physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids. Hell-Volhard-Zelinsky reaction. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reactions of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives. Mucleophilic acids letter view is mide and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives. Physical properties, interconversion of acid derivatives. Physical properties, interconversion of acid derivatives. Physical properites, interconversion of acid derivatives. Physical p			Topics/Chapters to be covered	Assignment/ Tests
o. Periods students 21/03/22- 31/03/22 Amines Structure and nomenclature of amines, physical properties, Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophile aromatic substitution in aryl amines, reactions of amines with nitrous acid. Test of chapter- Amines 2 01/04/22- 30/04/22 Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H. OH, F. C. Br. I. NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application. Assignment 3 01/05/22- 30/05/22 Infrared (IR) absorption spectroscopy Molecular vibrations. Hooke's law, selection rules, imensity and position of IR spectra of simple organic compounds. Applications of IR spectra of simple organic compounds. Applications of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of arboxylic acids. Reactions of carboxylic acids. Reactions of carboxylic acids. Reactions of carboxylic acids. Reaction of arboxylic acids. Reaction of arbo	Sr.		t	o be given to
21/03/22- 31/03/22Amines Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.Test of chapter- Amines201/04/22- 30/04/22Diazonium Salts Mechanism of diazo group by H, OH, F, Cl, Br, I, NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.Test of chapter- Amines301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations. Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of Carboxylic acids, structure and bonding, physical properties, acidity of earboxylic acids, effects of substituents on acid strength. Preparation of acrossylic acids, effects of substituents on acid strength. Preparation of carboxylic acids, Reactions of acarboxylic acids, structure .nomenchature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acid series and acid anhydrides. Relative stability of acid derivatives physical properties, interconversion of acid derivatives phy	No.	Periods	S	students -
21/03/22- 31/03/22Amines Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.Test of chapter- Amines201/04/22- 30/04/22Diazonium Salts Mechanism of diazo group by H, OH, F, Cl, Br, I, NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.Test of chapter- Amines301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations. Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of Carboxylic acids, structure and bonding, physical properties, acidity of earboxylic acids, effects of substituents on acid strength. Preparation of acrossylic acids, effects of substituents on acid strength. Preparation of carboxylic acids, Reactions of acarboxylic acids, structure .nomenchature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acid series and acid anhydrides. Relative stability of acid derivatives physical properties, interconversion of acid derivatives phy				Assignment
Separation of a mixture of primary, account, amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.Test of chapter- Amines201/04/22- 30/04/22Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium Mechanism of diazotisation, structure of benzene diazonium of diazonium salts to hyrazines, coupling reaction and its synthetic application.Test of chapter- Amines301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerpri and interpretation of IR spectroscopy in structure elucidation of simple organic compounds.Assignment401/06/22- 15/06/22Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of acid chlorides, esters, amides and acid properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test of Diazoniu salts and Spectroscopy401/06/22- 15/06/22Saltienet conversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test of Diazoniu salts and spectroscopy515/06/22 toRevisionTest <td></td> <td></td> <td></td> <td>Assignment</td>				Assignment
Separation of a mixture of primary, account, amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.Test of chapter- Amines201/04/22- 30/04/22Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium Mechanism of diazotisation, structure of benzene diazonium of diazonium salts to hyrazines, coupling reaction and its synthetic application.Test of chapter- Amines301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and 	1		Amines and nomenclature of amines, physical properties.	
3 01/05/22- 30/05/22 Infrared (IR) absorptions of various functional is synthetic and is synthetic absorptions of various function of alky and any animes reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophilic aromatic substitution in aryl amines, reactions of animes with nitrous acid. Test of chapter-Amines 2 01/04/22- 30/04/22 Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H, OH, F, Cl, Br, I, NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application. Test of chapter-Amines 3 01/05/22- 30/05/22 Infrared (IR) absorption spectroscopy Molecular vibrations. Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingeroups and interpretation of IR spectroscopy in structure elucidation of simple organic compounds. Assignment 4 01/06/22- 15/06/22 Carboxylic Acids & Acid Derivatives Mechanism of decarboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Test of Diazoniu salts and spectroscopy 4 01/06/22- 15/06/22 Carboxylic Acids & Acid Derivatives Mechanism of decarboxylition. Structure, nomenelature and preparation of acid chlorides, esters, amides and acid properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic). Test 4 1		31/03/22	Structure and a mixture of primary, secondary and tertiary	
Preparation of alky) and aly animation of aldehydic and compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.Test of chapter-201/04/22- 30/04/22Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H, OH, F, Cl, Br, I, NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.Test of chapter-301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectroscopy in structure elucidation of simple organic compounds.Assignment401/06/22- 15/06/22Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength, Preparation of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydridys (acidic and basic).Test of Diazoni415/06/22 toRevisionTest			Separation of a mines.	
compounds, nitriles, reductive animaticketonic compounds, Gabriel-phthalimide reaction, Hofmann bromamide reaction, electrophthali aromatic substitution in aryl amines, reactions of amines with nitrous acid.Test of chapter-201/04/22- 30/04/22Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium Mechanism of diazotisation, structure of benzene diazonium Mechanism of diazotisation, structure of benzene diazonium Mechanism of diazotisation, structure of benzene diazonium Molecular vibrations, Houke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, tinga groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectra of simple organic compounds. Applications of IR spectra of simple organic compounds. Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids. effects of substituents on acid strength, Preparation of acaboxylic acids. Reduction of acaboxylic acids. Hell-Volhard-Zelinsky reaction.Test of Diazoniu salts and Spectroscopy401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylic acids. Reduction of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test			amines. Structure and aryl amines reduction of nitro	
ketonic compounds. Gabrier-pinitarimeter bromamide reaction. electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.Test of chapter- Amines201/04/22Diazonium Salts Mechanism of diazotisation. structure of benzene diazonium chloride, Replacement of diazo group by H. OH, F. Cl, Br, I. NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.Test of chapter- Amines301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectra of simple organic compounds. Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, tructure and substituents on acid strength. Preparation of carboxylic acids.Test of Diazonin salts and Spectroscopy401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylita acids.Test of Diazonin salts and Spectroscopy401/06/22- 15/06/22Rehanism of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test			Preparation of any eductive amination of aldehydic and	
Image: space of the section of the content of the			compounds, minnes, reducted-phthalimide reaction, Hofmann	
201/04/22- 30/04/22Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H. OH, F. Cl. Br. I. NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.Test of chapter- Amines301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations. Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, tingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectroscopy in structure elucidation of simple organic compounds. Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidia and basic).Test of Diazoniu salts and Spectroscopy401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylation. Structure, nomenclature and properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidia and basic).Test of Diazoniu			ketonic compounds. Calorier place aromatic substitution in aryl	
201/04/22- 30/04/22Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H. OH, F. Cl, Br, L, NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.Amines301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectroscopy in structure elucidation of simple organic compounds.Assignment401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test of Diazoniu salts salts and hydrolysis (acidic and basic).			bromamide reaction. electrophilie and	
30/01/02chloride, Replacement of utazo group of diazonium salts to hyrazines, coupling reaction and its synthetic application.Assignment301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectroscopy in structure elucidation of simple organic compounds. Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids. effects of substituents on acid strength. Preparation of arboxylic acids. Reduction of acid chlorides, esters, amides and acid andydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test			amines, reactions of animes with inflous a	
30/01/02chloride, Replacement of utazo group of diazonium salts to hyrazines, coupling reaction and its synthetic application.Assignment301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectroscopy in structure elucidation of simple organic compounds. Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids. effects of substituents on acid strength. Preparation of arboxylic acids. Reduction of acid chlorides, esters, amides and acid andydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test	2	01/04/22-	Diazonium Salts	Amines
NO2 and CN groups, reduction of capplication. coupling reaction and its synthetic application.Assignment301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations. Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectroscopy in structure elucidation of simple organic compounds. Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reduction of carboxylic acids. Reduction of acid chlorides, esters, amides and acid preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest	-		Mechanism of diazotisation, structure by H. OH, F. Cl. Br. I.	
301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations. Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectroscopy in structure elucidation of simple organic compounds.Assignment401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of acid chlorides, esters, amides and acid preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test of Diazoniu salts515/06/22 toRevisionTest		50,0		
301/05/22- 30/05/22Infrared (IR) absorption spectroscopy Molecular vibrations. Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectroscopy in structure elucidation of simple organic compounds.Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids effects and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest			NO2 and CN groups, reduction application.	Assignment
30/05/22Molecular vibrations. Hooke state sector30/05/22Molecular vibrations. Hooke state sectorposition of IR bands, measurement of IR spectrum, fingerprintregion, characteristic absorptions of various functional groupsand interpretation of IR spectra of simple organic compounds.Applications of IR spectroscopy in structure elucidation ofsimple organic compounds. Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding,physical properties, acidity of carboxylic acids, effects ofsubstituents on acid strength. Preparation of carboxylic acids.Reactions of carboxylic acids.Reduction of carboxylic acids.Reduction of acid chlorides, esters, amides and acidanhydrides.Relative stability of acid derivatives bynucleophilic acyl substitution.Mechanisms of esterificationand hydrolysis (acidic and basic).515/06/22 toRevisionTest			coupling reaction and the sy	Assignment
Solectionposition of IR bands, measurement of IR operational groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectroscopy in structure elucidation of simple organic compounds.Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reduction of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of acid chlorides, esters, amides and acid preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest	3		Molecular vibrations, Hooke's law, selection rules, intensity and	
region, characteristic absolutions of there and interpretation of IR spectra of simple organic compounds. Applications of IR spectroscopy in structure elucidation of simple organic compounds.Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of acid chlorides, esters, amides and acid preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives Dy nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest		30/05/22	Molecular violations, measurement of IR spectrum, fingerprint	
401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of acid chlorides, esters, amides and acid properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest			position of ne ounday	
Applications of IR spectroscopy in outcome simple organic compounds.Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids.Test of Diazoniu salts and Spectroscopy401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylation. Structure , nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test	1.3		region, characteristic des in region, compounds.	
401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids. Reations of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of acid chlorides, esters, amides and acid properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest			and interpretation of its spectroscopy in structure elucidation of	
401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids.Test of Diazoniu salts and Spectroscopy401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylation. Structure , nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest			Applications of in specific and the	
AOneclature of Carboxylic acids, sumic acids, effects of physical properties, acidity of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids.Test of Diazoniu salts and Spectroscopy401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylation. Structure . nomenclature and preparation of acid chlorides, esters, amides and acid properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest				
401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylicia. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest	1.		Carboxylic Acids & Acid Derids, structure and bonding,	
401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylation. Structure . nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test of Diazoniu salts515/06/22 toRevisionTest			Nomenclature of Carboxylic acids, effects of	
401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Reduction of carboxylic acids.Test of Diazoniu salts and Spectroscopy401/06/22- 15/06/22Carboxylic Acids & Acid Derivatives Mechanism of decarboxylation. Structure . nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 toRevisionTest			physical properties, acted by Preparation of carboxylic acids.	
401/06/22- 15/06/22Carboxylic Acids & Acid DerivativesTest of Diazonne401/06/22- 15/06/22Carboxylic Acids & Acid DerivativesNechanism of decarboxylation. Structure . nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Spectroscopy515/06/22 toRevisionTest			substituents of carboxylic acids. Hell-Volhard-Zelinsky reaction.	
401/06/22- 15/06/22Carboxylic Acids & Acid Derivativessaltsand15/06/22Mechanism of decarboxylation. Structure . nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).saltsand515/06/22 toRevisionTest			n 1 than of carbox vill durus.	Test of Diazoniu
15/06/22Mechanism of decarboxylation. Statements of acid preparation of acid chlorides, esters, amides and acid preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Spectroscopy515/06/22 toRevisionTest		01/06/22	Carboxylic Acids & Acid Derivatives	
515/06/22 topreparation of acid chiofides, esters, american hydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).515/06/22 toRevision	4		Mechanism of decarboxylation. Structure . nomenclature and	
anhydrides. Relative stability of deyr derivatives by properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).515/06/22 to		15/06/22	preparation of acid chlorides, esters, amides and acid	Spectrostatio
properties, interconversion of acte are nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).Test515/06/22 to			anhydrides. Relative stability of acylerity es by	
nucleophilic acyl substitution.internationand hydrolysis (acidic and basic).Test515/06/22 to			properties, interconversion of acid derivatives of esterificati	on
5 15/06/22 to 15/06/22 to Revision			learbilic acyl substitution. Wiechamore	
5 15/06/22 to			and hydrolysis (actaic and basic).	Test
	t	5 15/06/2	2 to	
			m	

(Dr. Rajiv Kumar)

Lesson Plan for Session 2021-22 (Even Semester) B. Sc. 3rd Year (6th Semester) Paper-XX(CH-306) Organic Chemistry (Theory) Name of Assistant Professor: Dr. Rajiv Kumar

No Periods Topic of Topic of	Sr.	Time	Topics/Chapters to be covered	
1 21/03/22- 31/03/22 Organosulphur Compounds Nomenclature, structural features, Methods of formation and chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine. Synthetic detergents alkyl and aryl sulphonates. Assignment 2 01/04/22- 30/04/22 Heterocyclic Compounds Introduction: Molecular orbital picture and aromatic characteristics of pyrtole, furan, thiophene and pyridine. Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, equinoline and pyrrole. Introduction to condensed five and six - membered heterocycles. Prepration and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis. Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline. Assignment 3 01/05/22- 30/05/22 Amino Acids, Peptides & Proteins Classification of proteins. Peptide structure determination, exist group analysis, selective hydrolysis of peptides. Classific pint and electrophoresis. Preparation of <i>a</i> -amino acids. Structure and nomenclature of peptides and proteins. Classification of proteins: Primary & Secondary structure. Organic Synthesis via Enolates Acidity of <i>a</i> -hydrogens, alkylation of diethyl malonate and ethylacetoacetate. Synthesis of ethyl acetoacetate: Poptide synthesis is of ethyl acetoacetate: Test of Chapter- Heterocyclic Compounds 4 01/06/22- 15/06/22 Synthetic Polymers Addition or chain-growth polymerization. Ziegler-Nata polymerization, ionic viryl polymerization. Ziegler-Nata polymerization and viryl polymerization. Ziegler-Nata polymerization and viryl pol			ropies/enapters to be covered	Assignment/ Tests
31/03/22 Organosuphurer compounds Nomenclature, structural features, Methods of formation and chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine. Synthetic detergents alkyl and aryl sulphonates. Assignment 2 01/04/22- 30/04/22 Heterocyclic Compounds Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole. Introduction to condensed five and six- membered heterocycles. Prepration and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis. Skraup synthesis and Bischler-Napieralski. synthesis. Mechanism of electrophilie substitution reactions of, quinoline and isoquinoline. Assignment 3 01/05/22- 30/05/22 Amino Acids, Peptides& Proteins Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of a-amino acids. Structure and nomenclature of peptides and proteins. Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis via Enolates Acidity of a-hydrogens, alkylation of diethyl malonate and ethylacetoacetate. Synthesis of ethyl acetoacetate: 4 Test. of Chapter- Heterocyclic Organic Synthesis via Enolates Acidity of a-hydrogens, alkylation. Ziegler-Nata polymerization, ionic vinyl polymerization. Ziegler-Nata polymerization and vinyl polymers. Test. of Chapter- Heterocyclic Compounds 4 01/06/22- 15/06/22 Synthetic Polymers Addition or chain-growth polymerization. Ziegler-Nata polymerization and vinyl polymerization. Ziegler-Nata polymerization and vinyl polymerization. Ziegler-Nata polyme	1	21/03/22	Organization	
2 01/04/22- 30/04/22 Heterocyclic Compounds Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine. Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole. Introduction to condensed five and six- membered heterocycles. Prepration and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis. Skraup synthesis and Bischler-Napieralski synthesis. Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline. Assignment 3 01/05/22- 30/05/22 Amino Acids, Peptides Proteins Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of <i>a</i> -amino acids. Structure and nomenclature of peptides and proteins. Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis vai Enolates Acidity of <i>a</i> -hydrogens, alkylation of diethyl malonate and ethylacetoacetate. Synthesis of ethyl acetoacetate: the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate. Test of Chapter- Heterocyclic Compounds 4 01/06/22- 15/06/22 Synthetic Polymers Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymers. Test of Chapter- Heterocyclic Compounds 5 15/06/22 to Revision Test			Nomenclature, structural features, Methods of formation and chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine. Synthetic detergents alky	
30/04/22 Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine. Methods of synthesis and chemical reactions with particular. Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole. Introduction to condensed five and six- membered heterocycles. Prepration and reactions of indole synthesis. Skraup synthesis and Bischler-Napieralski synthesis. Skraup synthesis and Bischler-Napieralski synthesis. Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline. Amino Acids, Peptides& Proteins Assignment 3 01/05/22- 30/05/22 Amino Acids, Peptides& Proteins Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of <i>a</i> -amino acids. Structure and nomenclature of peptides and proteins. Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid-phase peptide synthesis. Structures of peptides and proteins. Primary & Secondary structure. Assignment 4 01/06/22- 15/06/22 Synthetic Polymers Test of Chapter-Heterocyclic Compounds 5 15/06/22 to Revision Test of Chapter-Heterocyclic Compounds	2	01/04/22-		
30/05/22Anniho Actus, replices Proteins Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of α-amino acids. Structure and nomenclature of peptides and proteins. Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid-phase peptide synthesis. Structures of peptides and proteins: Primary & Secondary structure. Organic Synthesis via Enolates Acidity of α-hydrogens, alkylation of diethyl malonate and ethylacetoacetate. Synthesis of ethyl acetoacetate: the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate.Test of Chapter- Heterocyclic Compounds401/06/22- 15/06/22Synthetic Polymers Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymers.Test of Chapter- Heterocyclic Compounds515/06/22 toRevisionTart			Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine. Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole. Introduction to condensed five and six- membered heterocycles. Prepration and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis. Skraup synthesis and Bischler-Napieralski synthesis. Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline.	Organosulphur
30/05/22Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of α-amino acids. Structure and nomenclature of peptides and proteins. Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid-phase peptide synthesis. Structures of peptides and proteins: Primary & Secondary structure. Organic Synthesis via Enolates Acidity of α-hydrogens, alkylation of diethyl malonate and ethylacetoacetate. Synthesis of ethyl acetoacetate: the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate.Test. of Chapter- Heterocyclic Compounds.401/06/22- 15/06/22Synthetic Polymers Addition or chain-growth polymerization. Free radical vinyl polymerization and vinyl polymers.Test. of Chapter- Heterocyclic Compounds.515/06/22 toRevisionText.	3		Amino Acids, Peptides& Proteins	Accimpont
15/06/22Synthetic Folymers Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization. Ziegler-NattaTest of Chapter- Heterocyclic Compounds515/06/22 toRevisionTast			point and electrophoresis. Preparation of α -amino acids. Structure and nomenclature of peptides and proteins. Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid–phase peptide synthesis. Structures of peptides and proteins: Primary & Secondary structure. Organic Synthesis via Enolates Acidity of α -hydrogens, alkylation of diethyl malonate and ethylacetoacetate. Synthesis of ethyl acetoacetate: the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate.	
5 15/06/22 to Revision Test	4		Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization. Ziegler Nette	Heterocyclic
	5	15/06/22 to		7Tr.
		till exam		Test

Kop (Dr. Rajiv Kumar)

MONTHLY LESSON PLAN B.SC. 2nd SEMESTER SUBJECT: CHEMISTRY, SESSION 2021-2022

A CONTRACTOR OF TANK	CMG GCW BHOIA KHERA, FATEHABAD	
NAME OF THE ASSISTANT PROFESSOR	MR. SATISH CHANDER	
CLASS AND SECTION:	BSC Ist 2ND SEMESTER	
SUBJECT:	CHEMISTRY	
NOMENCLATURE:	ORGANIC CHEMISTRY	
WEEK	TOPICS	
21 MARCH 2022	Alkenes : Nomenclature of alkenes, mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halide. The Saytzeff rule, Hofmann elimination, physical properties and relative stabilities of alkenes.	
APRIL 2022	 Alkenes : Mechanisms involved in — Chemical reactions of alkenes hydrogenation, electrophilic and free radical additions, Markownikoff's rule, hydroboration—oxidation, oxymercurationreduction, ozonolysis, hydration, hydroxylation and oxidation with KMnO4 . Arenes and Aromaticity : Nomenclature of benzene derivatives: Aromatic nucleus and side chain. Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms, aromatic, anti-aromatic and non-aromatic compound REVISION AND DOUBTS TEST ASSIGNMENT 	
MAY 2022	 Arenes and Aromaticity : General pattern of the —Aromatic electrophilic substitution mechanism, mechansim of nitration, halogenation, sulphonation and Friedel-Crafts reaction. Energy profile diagrams. Activating , deactivating substituents and orientation. Dienes and Alkynes : Nomenclature and classification of dienes: isolated, conjugated and —cumulated dienes. Structure of butadiene. Chemical reactions 1,2 and 1,4 additions (Electrophilic & free radical mechanism), Diele Alder reaction, Nomenclature, structure and bonding in alkynes. Methods of formation. Chemical reactions of alkynes, acidity of alkynes. Mechanism of electrophilic and nucleophilic addition reactions, hydroboration-oxidation of alkynes. 	
JUNE 2022	Alkyl and Aryl Halides :Nomenclature and classes of alkyl halides, methods of formation, chemical reactions. Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides, S N2 and S N1 reactions with energy profile diagrams. Methods of formation and reactions of a ryl halides, The additionelimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions. Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides REVISION AND DOUBTS: COMPLETE SYLLABUS REVISION WORK	
JULY 2022	REVISION AND DOUBTS: COMPLETE SYLLABUS REVISION WORK	

Colur

MONTHLY LESSON PLAN B.SC. 4TH SEMESTER SUBJECT: CHEMISTRY, SESSION 2021-2022

	CMG GCW BHOIA KHERA, FATEHABAD
IAME OF THE ASSISTANT	MR. SATISH CHANDER
LASS AND SECTION:	BSC IInd 4TH SEMESTER
UBJECT:	CHEMISTRY
IOMENCLATURE:	PHYSICAL CHEMISTRY
VEEK	TOPICS
21 MARCH 2022	Thermodynamics: Second law of thermodynamics, need for the law, different statements of the law, Carnot's cycles and its efficiency, Carnot's theorm, Thermodynamics scale of temperature.
APRIL 2022	Thermodynamics: Concept of entropy – entropy as a state function, entropy as a function of V & T, entropy as a function of P & T, entropy change in physical change, entropy as a criteria of spontaneity and equilibrium. Third law of thermodynamics: Nernst heat theorem, statement of concept of residual entropy, evaluation of absolute entropy fro m heat capacity data. Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities, G as criteria for thermodynamic equilibrium and spontaneity, its advantage over entropy change. Variation of G with P, V and T. REVISION AND DOUBTS TEST ASSIGNMENT
MAY 2022	Electrochemistry :Electrolytic and Galvanic cells – reversible & irreversible cells, conventional representation of electrochemical cells. Calculation of thermodynamic quantities of cell reaction (\blacktriangle G, \blacktriangle H & K). Types of reversible electrodes – metal- metal ion, gas electrode, metal –insoluble salt- anion and redox electrodes.
JUNE 2022	Electrochemistry :Electrode reactions, Nernst equations, derivation of cell EMF and single electrode potential. Standard Hydrogen electrode, reference electrodes, standard electrode potential, sign conventions, Concentration ce with and without transfe rence, liquid junction potential and its measurement.Applications of EMF measurement in solubility product and potentiometric titrations using glass electrode. More stress on numerical problems. REVISION AND DOUBTS: COMPLETE SYLLABUS REVISION WORK
JULY 2022	REVISION AND DOUBTS: COMPLETE SYLLABUS REVISION WORK

MONTHLY LESSON PLAN B.SC. 6TH SEMESTER SUBJECT: CHEMISTRY, SESSION 2021-2022

	CMG GCW BHOIA KHERA, FATEHABAD
NAME OF THE ASSISTANT PROFESSOR	MR. SATISH CHANDER
CLASS AND SECTION:	BSC III rd 6TH SEMESTER
SUBJECT:	CHEMISTRY
NOMENCLATURE:	PHYSICAL CHEMISTRY
WEEK	TOPICS
21 MARCH 2022	ELECTRONIC SPECTRUM Concept of potential energy curve for bonding and antibonding molecular orbitals, qualitative description of selection rules and Frank- Condon principle. qualitative description of sigma and pi and n molecular orbital(MO) their energy level and respective transitions.
APRIL 2022	Photochemistry :Interaction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry: Grotthus- Drapper law, StarkEinstein law (law of photochemical equivalence), Jablonski diagram depiciting various processes occurring in the excited state, qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing), quantum yield, photosensitized reactions-energy transfer processes (simple examples). REVISION AND DOUBTS TEST ASSIGNMENT
MAY 2022	Solutions :Dilute Solutions and Colligative Properties Ideal and non-ideal solutions, methods of expressing concentrations of solutions, Dilute solutions, Raoult's law. Colligative properties: (i) relative lowering of vapour pressure (ii) Elevation in boiling point (iii) depression in freezing point (iv) osmotic pressure Thermodynamic derivation of relation between amount of solute and elevation in boiling point and depression in freezing point.
JUNE 2022	 Solutions :Applications in calculating molar masses of normal, dissociated and associated solutes in solution. Phase Equillibrium: Statement and meaning of the terms – phase, component and degree of freedom, thermodynamic derivation of Gibbs phase rule, phase equilibria of one component system –Example – water system. Phase equilibria of two component systems solid-liquid equilibria, simple eutectic Example Pb-Ag system, desilverisation of lead.
JULY 2022	REVISION AND DOUBTS: COMPLETE SYLLABUS REVISION WORK

Satur

Lession Plan for Session 2021-22(Even Semester) B. Sc. Ist Year (IInd Semester) Paper-V (CH-105) Physical Chemistry (Theory)

Name of Assistant Professor: Mr. Parveen Kumar

Sr.	Time	Topics/Chapters to be covered	Topic of
No.	Periods		Assignment/
			Tests to be given
			to students
1	21/03/22-	Kinetics Rate of reaction, rate equation and its types,	Test of kinetics
	09/04/22	factors influencing the rate of a reaction – concentration,	
		temperature, pressure, solvent, light, catalyst. Order of a	
		reaction, integrated rate expression for zero order, first	
		order, second and third order reactions. Half life period of	
1		a reaction. Effect of temperature on the rate of reaction -	
		Arrhenius equation.	
2	29/04/22-	Theories of reaction rate - Simple collision theory for	Assignment
4	13/05/22	unimolecular collision. Transition state theory of	Assignment
	13/03/22	bimolecular reactions.	
3	14/05/22-	Electrochemistry Electrolytic conduction, factors	
	21/05/22	affecting electrolytic conduction, specific conductance,	
		molar conductance, equivalent conductance and relation	
4	21/05/22-	among them, their variation with concentration.	Test
4	01/06/22	Arrhenius theory of ionization, Ostwald's Dilution Law. Debye Huckel – Onsager's equation for strong	Test
· · · · · · · · · · · · · · · · · · ·	01/06/22	electrolytes (elementary treatment only), Application of	
		Kohlrausch's Law in calculation of conductance of weak	
		electrolytes at infinite dilution. Applications of	
		conductivity measurements: determination of degree of	
		dissociation, determination of Ka of acids determination	
		of solubility product of sparingly soluble salts,	
5	02/06/22-	conductometric titrations Concepts of pH and pKa, Buffer solution, Buffer action,	
5	02/06/22-	Henderson – Hazel equation, Buffer mechanism of buffer	
		action.	
9	10/06/22	Revision	a na ana ana ana ana ana ana ana ana an
	to till		
	exam		

.



Lession Plan for Session 2021-22(Even Semester)

B. Sc. II Year (IVth Semester) Paper-XI (CH-204) Inorganic Chemistry (Theory) Name of Assistant Professor: Mr. Parveen Kumar

Sr. No.	Time Periods	Topics/Chapters to be covered	Topic of Assignment/ Tests to be given to students
1	21/03/2022- 08/04/2022	Chemistry of f-Block elements Lanthanides: Electronic structure, oxidation states, magnetic properties, complex formation, colour, ionic radii and lanthanide contraction, occurrence, separation of lanthanides, Lanthanide compounds.	Test
2	14/04/22- 29/04/22	Actinides: General characteristics of actinides, chemistry of separation of Np, Pu and Am from uranium, Transuranic elements, comparison of properties of Lanthanides and actinides with transition elements.	Assignment
3	05/05/22- 20/05/22	Theory of Qualitative and Quantitative Analysis Chemistry of analysis of various groups of basic and acidic radicals, chemistry of identification of acid radicals in typical combination,	
4	26/05/22- 10/06/22	chemistry of interference of acid radicals including their removal in the analysis of basic radicals,	Test
5	02/06/22- 09/06/22	Common ion effect, solubility product, theory of precipitation, co-precipitation, post precipitation, purification of precipitates.	Anigement
6	10/06/22 to till Exam	Revision	

(Parveen Kumar)

Lession Plan for session 2021-22(Even Semester) B.Sc. IIIrd Year (VI Semester)

Paper XVIII (Theory) Inorganic Chemistry (CH-304)

Name of Assistant Professor: Mr. Parveen Kumar

Sr. No.Time PeriodsTopics/Chapters to be covered122/03/22- 06/04/22Organometallic Chemistry Definition, nomenclature and classification organometallic compounds.211/04/22- 20/04/22Preparation, properties, and bonding of alkyls of Li, A Hg, and Sn a brief account of metal-ethylenic complexed mononuclear carbonyls and the nature of bonding in met carbonyls.325/04/22- 18/05/22Concept of Hard and Soft Acids & Bases423/05/22- 08/06/22Bioinorganic Chemistry Essential and trace elements in biological process metalloporphyrins with special reference to haemoglot and myoglobin. Biological role of alkali and alkaline ea metal ions with special reference to Ca2+. Nitrog fixation.513/06/22- 22/06/22Silicones and Phosphazenes Silicones and phosphazenes as examples of inorga polymers, nature of bonding in triphosphazenes.	Topic of
06/04/22 Definition, nomenclature and classification organometallic compounds. 2 11/04/22- 20/04/22 Preparation, properties, and bonding of alkyls of Li, A Hg, and Sn a brief account of metal-ethylenic complexe mononuclear carbonyls and the nature of bonding in met carbonyls. 3 25/04/22- 18/05/22 Concept of Hard and Soft Acids & Bases 4 23/05/22- 08/06/22 Bioinorganic Chemistry Essential and trace elements in biological process metalloporphyrins with special reference to haemoglob and myoglobin. Biological role of alkali and alkaline ea metal ions with special reference to Ca2+. Nitrog fixation. 5 13/06/22- 22/06/22 Silicones and Phosphazenes Silicones and phosphazenes as examples of inorga polymers, nature of bonding in triphosphazenes.	Assignment/ Tests to be given to students
20/04/22 Hg, and Sn a brief account of metal-entylenic complexes mononuclear carbonyls and the nature of bonding in metal-entylenic complexes (arbonyls). 3 25/04/22- (Concept of Hard and Soft Acids & Bases) 4 23/05/22- (Daylog) 5 13/06/22- (22/06/22) 5 13/06/22- (22/06/22) 5 13/06/22- (22/06/22) 6 23/05/22- (22/06/22) 6 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 7 13/06/22- (22/06/22) 8 13/06/22- (22/06/22) 8 13/06/22- (22/06/22) <	f
 3 25/04/22- 18/05/22 4 23/05/22- 08/06/22 5 13/06/22- 22/06/22 6 13/06/22- 22/06/22 Concept of Hard and Soft Acids & Bases Concept of Hard and Frace elements in biological process metal polymphysics with special reference to haemoglob and myoglobin. Biological role of alkali and alkaline ea metal ions with special reference to Ca2+. Nitrog fixation. Silicones and Phosphazenes Silicones and phosphazenes as examples of inorga polymers, nature of bonding in triphosphazenes. 	
 08/06/22 Essential and trace elements in biological process metalloporphyrins with special reference to haemoglob and myoglobin. Biological role of alkali and alkaline ea metal ions with special reference to Ca2+. Nitrog fixation. 5 13/06/22- 22/06/22 Silicones and Phosphazenes as examples of inorga polymers, nature of bonding in triphosphazenes. 	
22/06/22 Silicones and phosphazenes as examples of morga polymers, nature of bonding in triphosphazenes.	rth
	nic Assignment
6 23/06/22 to till exam	

(Parveen Kumar)

Name of Deptt. Psychology Subject: Develpomental

Psychology

Lesson Plan (Session 2021-22)

Name of Teacher: Dr. Nirmala Kaushik Class : B.A. 4[™] SEM

Topics to be taught Human Development: Concepts and Principals. Biological, Social and Cultural factors of Human development. Prenatal Development: Stages and determinants. Infancy : Characteristics, hazards and adjustment.

Childhood: Characteristics, Perceptual, Motor and cognitive
Development. Adolescents: Characteristics, problems and
Adjustment of adolescents.
Adulthood: Early adulthood, late adulthood and aging- changing
Pattern and problems. Measures of Variability: Quartile
Deviation and standard deviation.
Revision and tests.

Note: The teaching methodology is used like power point presentation, models, charts, videos etc. The group discussion, tests and quiz etc are also planned.

Dr. Nirmala Kaushik

Month

March

April

May

June

*

July

Name of D	Peptt. Psychology	Name of Teac	cher: Dr. Nirmala Kaushik
Subject:	Applied	Class	: B.A. 6 TH SEM

Month

Psychology

March

April

Applied Psychology: Meaning and history.

Careers in Psychology, Organisational Psychology- Nature, Scope, objectives and development.

Topics to be taught

May

Guidance: Objectives, Principles, types of guidance. Organisation of guidance programme.

June

Counselling: Need, Principles, special areas and types of Counselling.

July

Revision and tests.

Note: The teaching methodology is used like power point presentation, models, charts, videos etc. The group discussion, tests and quiz etc are also planned.

Dr. Nirmala Kaushik

Lesson Plan (Session 2021-22)

(CMG Govt. College for Women, Bhodia Khera, Ftb)

Department of Mathematics

Session: 2021-22

Name of the Teacher: Sonu Ram

Designation: Assistant Professor

Class and Section: BA/BSC-I (2nd sem.)

Subject: Ordinary differential Equation

Week	Topics
1	Introduction to ordinary differential equation order and
21-3-22 to 27-3-22	degree. Formation of the exact differential equation,
	integrating factor, and rule to find the integrating factor
	for the solution of the differential equation.
2	To special rule for finding the integrating factor equation
28-3-22 to 3-4-22	solvable for p equation solvable for x equation to y.
3	Lagrange equation Clairaut's equation is reducible to clearout's
4-4-22 to 10-4-22	form singular solution discriminant solution.
4	Doubts discussion and test of above chapters and assignment
11-4-22 to 17-4-22	as given.
5	Introduction of orthogonal trajectories with cartesian
18-4-22 to 22-4-22	coordinates and polar coordinate's introduction to a linear differential equation with constant coefficients with a complete solution rule to solve an equation and theorem to find the
6	particular integral of special cases. Case second third fourth fifth order with constant coefficients
23-4-22 to 29-4-22	for the solution of the linear differential equation.
7	Introduction to homogeneous equation method of solution
30-4-22 to 6-5-22	equation reducible to homogeneous linear form introduction to the linear differential equation of second order by changing the dependent variable when an integral included in the CF is known.
8	Doubt discussion and test
7-5-22 to 13-5-22	
9	Method for finding the integral of second order equation by
14-5-22 to 20-5-22	removing the first derivative and changing dependent variable and by changing the independent variable.

		-f undetermined
	10	Method of variation of parameters of undetermined
	21-5-22 to 27-5-22	constants introduction to ordinary simultaneous linear
	CNG COS	differential equations.
	11	Method of solving simultaneous linear differential
	28-5-22 to 3-6-22	equations with constant coefficients special form of
		simultaneous linear differential equations for second order
		with the help of order 1.
-	12	Doubt, test and discussion and assignment.
	4-6-22 to 10-6-22	
-	13	Introduction to total differential equation method of
	11-6-22 to 17-6-22	solving of total differential equation method of second
		regarding one variable as constant out of 3 variables
F	14	Method of solving homogenous equation method 4 th of
	18-6-22 to 24-6-22	auxiliary equation special form of solution of total
		differential equation.
-	15	Doubt discussion and test
	25-6-22 to 02-7-22	
	16	Revision and problem discussion
	3-7-22 to 8-7-22	

Brk

(CMG Govt. College for Women, Bhodia Khera, Ftb)

Department of Mathematics

Session: 2021-22

Name of the Teacher: Sonu Ram, Designation: Assistant Professor of Maths Class and Section: BA/BSC-II (4th sem)

Subject : Sequence and Series

fresk.

Week	Topics
1	chapter1 topology of real numbers, various definitions sets, finite set,
21-3-22 to	infinite set ,interval, subset, bounded above set and bounded above
27-3-22	set , bounded below set, unbounded below set, bounded set ,
	unbounded set, greatest element, least element, least upper bound,
	some theorems on supremum of a set, greatest lower bound or
	infimum, some theorems on infimum of a set
2	completeness axiom, archimedean property of reals, examples and
28-3-22 to	exercise 1.1, neighbourhood of a point, deleted neighbourhood,
3-4-22	interior of a set, open set, some theorems on open set, theorems on
	interior of a set, closed set, some theorems on closed sets, examples and exercise 1.2.
3	limit point of a set , isolated point , adherent point , closure of a set
4-4-22 to	
	,bolzano weierstrass theorem, some theorems on closure of a set,
10-4-22	examples and exercise 1.3 , compact set, Heine borel property, Heine
	borel theorem ,Converse of Heine borel theorem, example and
14.32	exercise 1.4
4	chapter 2 sequences, definition of sequence, representation of a
11-4-22 to	sequence ,methods to describe a sequence, range of a
17-4-22	sequence, constant sequence convergent sequence, some theorems
	on convergent sequences, divergent sequence, oscillatory sequence
	,null sequence ,examples and exercise 2.1 ,some basic theorems on
201.22.00	limits ,Cauchy"s first theorem on limits.
5	Cauchy's second theorem on limits, examples and exercise 2.2,
18-4-22 to	monotonic sequence, monotone convergence theorem, nested

22-4-22	sequence examples and exercise 2.3 ,limit point or cluster point		
	,some theorems on limit point, bolzano theorem, cauchy's sequence.		
100	Assignment 1		
6	cauchy's general principle of convergence examples and exercise 2.4		
23-4-22 to	subsequence, theorems on subsequence. class test of chapter 1		
29-4-22			
7	chapter 3infinite series, definition of infinite series convergence and		
30-4-22 to	divergence of an infinite series ,oscillate finitely or infinite ,examples		
6-5-22	and theorems exercise 3.1		
8	cauchy's general principle of convergence ,convergence or		
7-5-22 to	divergence of geometric series, general test for the convergence of		
13-5-22	positive term series, comparison test, hyper harmonic series or p-test series, class test of chapter 2		
9	examples and exercise 3.2., chapter 4 infinite series continued,		
14-5-22 to D'Alembert Ratio test, examples and exercise 4.1, cauchy's roo examples and exercise 4.2 class test of chapter 3.			
20-5-22			
10	logarithmic test for the convergence of a series examples and		
21-5-22 to exercise 4.3. De morgan's and Bertrand''s test. examples an			
27-5-22	4.4. gauss test exercise and examples, cauchy's integral test for the		
	convergence of a series, Cauchy's condensation test. examples an		
	exercise		
11	chapter 5, alternating series, Leibnitz 's test		
28-5-22 to	for the convergence of alternating series. examples, absolute		
3-6-22	convergence, conditional convergence, exercise 5.1, assignment 2		
12	chapter 6 arbitrary series, Abel test, Dirichlet"s test, exercise and its		
4-6-22 to	examples of 6.1, insertion and removal of parenthesis, example and		
10-6-22	exercise 6.2, multiplication of series ,Cauchy's product, Mertin"s		
	theorem, Cesaro's theorem.		
13	Abel's theorem, infinite product, absolute convergence of an infinite		
11-6-22 to	product theorems and examples		
17-6-22			
14	class test		

Pok.

18-6-22 to	Lifescer Plan
24-6-22	
15	Class test solved and revision
25-6-22 to	The state southeast the second s
02-7-22	Constant Barris Carter Comp
16	revision
3-7-22 to	
8-7-22	Charles and a Centre Brannin of provinge Section Deservation of

Bark.

Department of Mathematics

Class and Section: BA/BSC-II (4th sem.)

Session:2021-22

Name of the Teacher: Sonu Ram,

fork,

Designation: Assistant Professor

Subject: Special functions and Integral Transform

Week	Topics
1	Chapter -1 Convergence of power series, operation on
21-3-22 to 27-3-22	power series analytic function, ordinary and singular
a continued	points of differential equation, existence of power series
	solution
2	Chapter -1 Previous method of power series, discuss
28-3-22 to 3-4-22	different cases of solution of power series examples and exercises
3	Chapter-2 Bessel's equation (definition), solution of
4-4-22 to 10-4-22	Bessel's equation, Bessel's function, reductions of Bessel's
	function in the form of series, recurrence relation for
	Bessel's function.
4	Generating function for $Jn(x)$, representation of $Jn(x)$ in
11-4-22 to 17-4-22	integral, Jacobi series, equations reducible to Bessel
	equation, orthogonality relation of Bessel function.
5	Chapter 3 Legend's equation (definition), solution of
18-4-22 to 22-4-22	Legendre's equation, Rodrigue's formula, derivation of
The same second	Legendre polynomial from Rodrigues's formula, recurrence
	relation, orthogonality of Legendre polynomial.
6	Chapter -4 Hermite's equation (definition), Hermite
23-4-22 to 29-4-22	polynomial, generating function for Hermite's polynomial,
	Rodrigue's formula for Hn(x), recurrence relation,
1.25-6-28-0-02-7-22	orthogonal property of Hermite's polynomial. Assignment
7	Chapter -5 Laplace transforms (definition), Laplace
30-4-22 to 6-5-22	transform of some elementary functions, some standard
1. 17.22	results obtained by applying shifting property, function of

	-	exponential order, second shifting theorem, related
		examples.
	8	Laplace transform of derivatives, related examples,
	7-5-22 to 13-5-22	transform of a periodic function, Laplace transform of
		integrals, Laplace transform of some important functions,
	9	Chapter -6 Inverse Laplace transform (definition), other
	14-5-22 to 20-5-22	methods for finding inverse transform, convolution theorem, related examples and exercise
	10	Test, Assignment and viva.
	21-5-22 to 27-5-22	
	11	Chapter -7 Use of Laplace transform in integral equations,
	28-5-22 to 3-6-22	example and exercise, Method to solve different types of
- Contra	12	equations, related examples and exercise
		Chapter-8 Solution of differential equation by Laplace
	4-6-22 to 10-6-22	transformation. linear differential equation with constant
	and the second second	coefficient by transform method, solution of ordinary
		differential equation with variable coefficients by
		transform method, solution of simultaneous linear
	12	equation with constant coefficient by transform method.
	13	Chapter -9 Fourier transforms (definition), Fourier sine
	11-6-22 to 17-6-22	transform & cosine transform, properties of Fourier
	The second second second	transforms, example based on Fourier sine and cosine
		transform.
	14	Example based on the use of inverse transforms,
	18-6-22 to 24-6-22	use of inverse transforms,
		convolution theorem Fourier transform, Fourier transform
		of the derivative, relation between Fourier and Laplace
		transform. Solution of differential equation by Fourier
		transforms.
	15	Parseval's identity for Fourier transform, Parseval's identity
	25-6-22 to 02-7-22	for Fourier sine and cosine transform, finite sine and cosine
	H-12110-003-001-1	transform. test
T	16	Revision and discuss problems
	3-7-22 to 8-7-22	
L		

- Retr.

CMG Govt. College for Women, Bhodia Khera (Ftb)

Department of Mathematics

Session: 2021-22

Name of the Teacher: Sonu Ram

Designation: Assistant Professor of Maths

Class and Section: BA/BSC-III (6th sem.)

Subject: Linear Algebra

Week	Topics
1	Chapter 1: Vector spaces and subspaces, properties of
21-3-22 to 27-3-22	vector spaces, subspaces, Exercise.
2	Chapter 1: Theorems on vector-subspaces, Examples,
28-3-22 to 3-4-22	Linear sum of subspaces, Direct sum, Disjoint subspaces,
	Examples and Exercise.
3	Chapter 2: Linear combination of vectors, linear
4-4-22 to 10-4-22	dependence and independence of vectors, Spanning sets,
	Basis of vector space, Ordered basis, Minimal generating
	set, Maximal linearly, Independent set.
4	Chapter 2: Dimensions of a vector space, Identical spaces
11-4-22 to 17-4-22	complementary subspaces
5	Chapter 3: Quotient space, Dimension of quotient spaces,
18-4-22 to 22-4-22	Test, Assignments-I
6	Chapter 4: Linear transformations, Properties of L.T.
23-4-22 to 29-4-22	vector space isomorphism, Find L.T.
7	Chapter 5: Null space, Range or Image of L.T.,
30-4-22 to 6-5-22	Fundamental theorem of vector space homomorphism,
	Rank and nullity of a L.T.
8	Chapter 6: Algebra of L.T., Sum of L.T., Composition of two
7-5-22 to 13-5-22	L.T., Singular and non-singular L.T., Invertible L.T.
9	Chapter 7: Matrix of a L.T. relative to ordered basis,
14-5-22 to 20-5-22	Matrices of identity and zero transformations change of basis
10	Chapter 8: Dual space, Vector space of all L.T., Bidual of a
21-5-22 to 27-5-22	Vector space, Test and assignment- II

PK.

11	Chapter 9: Eigen values and eigen vectors of a L.T., Eigen
28-5-22 to 3-6-22	space, Simplar matrices, Diagonalisation, Minima
12	polynomial
4-6-22 to 10-6-22	Chapter 10: Inner product spaces, Normal of a vector, Triangle inequality, Schwarz inequality, Normal linear space, Examples and theorms.
13 11-6-22 to 17-6-22	Chapter 10: Orthonormal set, Bessel's inequality, Gram-schmidt orthogonalization process, Theorems and Exercise.
14	Chapter 11: Linear operations on inner product spaces,
18-6-22 to 24-6-22	Adjoint operator Same theory
15	Adjoint operator , Same theorems on linear operators
25-6-22 to 02-7-22	Revision and problems discussion
16 3-7-22 to 8-7-22	Revision and problems

Att.

À

1				
1	Lesson plan B.A II nd Sear IV Sem. (Foromers) Surron - 2021-22			
SR. Mo	Date	Topic		
	31-3-22 to 31-03-22			
· L	13-04-22 to 20-104-22	credit control.		
g.	21-04-22 to 30-04-12	Nature and -scope of Public finance		
3.	0+05-22 +0 10-05-22	Principle of manimum social advantage Public Enfenditures		
4.	11-05-22 to 20-05-22	Tauation system Assignment.		
5.	31.05-22 to 31-05-22	Impact and Indidence of Tanation.		
6-	01.06-22 to 10-0622	Und testy Investment multipliet Correlation		
7.	\$ 11-06-29 to 20-06-22	Correlation, Accoloration Principal.		
¥.	21-06-27 to 30-06-22	Public debt		
9.	-01-07-22 +0 09-07-22	Trade cycles.		
		Trade cycles, Rement Economicx Arrived. Pool Economicx		