

## Summary of Lesson Plans of College Faculty

Name of College: Indira Gandhi National College, Ladwa (KKR)    Academic Session: 2019-20    Semester: Odd    For the Month of July 2019

Sr. No.	Name of Assistant/ Associate Professor	Subject	Topics/Chapter to be covered	Academic Activity to be organized	Topic of Assignments/Tests to be given to the students
			<b><u>B.Sc. I</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Atomic Structure: Upto s,p,d,f orbitals	Subject Awareness Lecture	
2.	Dr. R.K. Chauhan	Physical Chemistry	Gaseous State: Upto mean free path		
3.	Dr. R.K. Chauhan	Organic Chemistry	Stereo Chemistry of organic compounds: Upto diastereomers		
			<b><u>B.Sc. II</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Chemistry of d-Block elements: Upto properties of d-block elements	Subject Awareness Lecture	
2.	Dr. Amit Kumar	Physical Chemistry	Thermodynamics: Upto state and Path functions		
3.	Dr. R.K. Chauhan	Organic Chemistry	Alcohols: Upto its acidic nature		
			<b><u>B.Sc. III</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Metal-Ligand Bonding in Transition metal complexes	Subject Awareness Lecture	
2.	Dr. Amit Kumar	Physical Chemistry	Quantum Mechanics-I: Upto Hamiltonian operator		
3.	Dr. R.K. Chauhan	Organic Chemistry	NMR Spectroscopy: Upto deshielding of protons		

## Summary of Lesson Plans of College Faculty

Name of College: Indira Gandhi National College, Ladwa (KKR)    Academic Session: 2019-20    Semester: Odd For the Month of August 2019

Sr. No.	Name of Assistant/ Associate Professor	Subject	Topics/Chapter to be covered	Academic Activity to be organized	Topic of Assignments/Tests to be given to the students
			<b><u>B.Sc. I</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Atomic Structure: From Aufbau principle Periodic table and Atomic properties	Group Discussion	
2.	Dr. R.K. Chauhan	Physical Chemistry	Gaseous State: From Real Gas behavior		
3.	Dr. R.K. Chauhan	Organic Chemistry	Stereo Chemistry: From types of diastereomers Structure and bonding		
			<b><u>B.Sc. II</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Chemistry of d-Block elements: From Comparison of properties of 3d elements with 4d and 5d elements	Group Discussion	
2.	Dr. Amit Kumar	Physical Chemistry	Thermodynamics: From thermodynamic process		
3.	Dr. R.K. Chauhan	Organic Chemistry	Alcohols: From reactions of alcohols Phenols		
			<b><u>B.Sc. III</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Thermodynamics and kinetic aspects of metal complexes	Group Discussion	
2.	Dr. Amit Kumar	Physical Chemistry	Quantum Mechanics-I: From Hermitian operator		
3.	Dr. R.K. Chauhan	Organic Chemistry	NMR Spectroscopy: From proton counting		

## Summary of Lesson Plans of College Faculty

Name of College: Indira Gandhi National College, Ladwa (KKR) Academic Session: 2019-20 Semester: Odd For the Month of September 2019

Sr. No.	Name of Assistant/ Associate Professor	Subject	Topics/Chapter to be covered	Academic Activity to be organized	Topic of Assignments/Tests to be given to the students
			<b><u>B.Sc. I</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Covalent bond		
2.	Dr. R.K. Chauhan	Physical Chemistry	Critical phenomenon		
3.	Dr. R.K. Chauhan	Organic Chemistry	Mechanism of organic reactions		Assignment on Isomerism
			<b><u>B.Sc. II</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Coordination compounds		Assignment on Coordination compounds
2.	Dr. Amit Kumar	Physical Chemistry	Chemical equilibrium		Assignment on Thermodynamical properties
3.	Dr. R.K. Chauhan	Organic Chemistry	Epoxides Carboxylic acids and acid derivatives: upto effect of substituents on acid strength		
			<b><u>B.Sc. III</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Magnetic properties of transition metal complexes		
2.	Dr. Amit Kumar	Physical Chemistry	Physical properties and molecular structure		
3.	Dr. R.K. Chauhan	Organic Chemistry	Carbohydrates: upto fructose		Assignment on Structure elucidation by NMR

## Summary of Lesson Plans of College Faculty

Name of College: Indira Gandhi National College, Ladwa (KKR) Academic Session: 2019-20 Semester: Odd For the Month of October 2019

Sr. No.	Name of Assistant/ Associate Professor	Subject	Topics/Chapter to be covered	Academic Activity to be organized	Topic of Assignments/Tests to be given to the students
			<b><u>B.Sc. I</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Ionic Solids: Upto Born-Haber cycle	Poster Making Competition	Assignment on Atomic Properties
2.	Dr. R.K. Chauhan	Physical Chemistry	Liquid States Solid State: Upto X-ray diffraction		Test of Molecular theory of Gases
3.	Dr. R.K. Chauhan	Organic Chemistry	Alkanes and Cycloalkanes: Upto free radical halogenation of alkanes		
			<b><u>B.Sc. II</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Non-aqueous solvents: Upto types and characteristics	Poster Making Competition	
2.	Dr. Amit Kumar	Physical Chemistry	Distribution Law: Upto aniline hydrochloride		
3.	Dr. R.K. Chauhan	Organic Chemistry	Carboxylic Acids and Acid derivatives: From preparation of Carboxylic Acids UV absorption spectroscopy: Upto auxochrome		Test on Alcohols and Phenols
			<b><u>B.Sc. III</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Electronic spectra of Transition metal complexes: Upto Orgel energy level diagram	Poster Making Competition	Test of Transition metal complexes
2.	Dr. Amit Kumar	Physical Chemistry	Spectroscopy, Rotational and vibrational spectrum		Assignment on Quantum Mechanics
3.	Dr. R.K. Chauhan	Organic Chemistry	Carbohydrates: from open chain structure		

## Summary of Lesson Plans of College Faculty

Name of College: Indira Gandhi National College, Ladwa (KKR) Academic Session: 2019-20 Semester: Odd For the Month of November 2019

Sr. No.	Name of Assistant/ Associate Professor	Subject	Topics/Chapter to be covered	Academic Activity to be organized	Topic of Assignments/Tests to be given to the students
			<b><u>B.Sc. I</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Ionic Solids: From Solvation energy		
2.	Dr. R.K. Chauhan	Physical Chemistry	Solid State: From Bragg's law		
3.	Dr. R.K. Chauhan	Organic Chemistry	Cycloalkanes		
			<b><u>B.Sc. II</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Non-aqueous solvents: From Reactions in non-aqueous solvents		
2.	Dr. Amit Kumar	Physical Chemistry	Distribution Law: From potassium tri-iodide complex		
3.	Dr. R.K. Chauhan	Organic Chemistry	UV absorption spectroscopy: From Bathochromic shift		
			<b><u>B.Sc. III</u></b>		
1.	Dr. Amit Kumar	Inorganic Chemistry	Electronic spectra of Transition metal complexes: discussion of electronic spectrum		
2.	Dr. Amit Kumar	Physical Chemistry	Raman spectrum		
3.	Dr. R.K. Chauhan	Organic Chemistry	Organo-metallic compounds		