PROGRESS REPORT FOR THE UNDERGRADUATE (ACADEMIC YEAR 2020-21) in accordance with Time Table for Online Classes during COVID-19 Pandemic, Session2020 – 2021 where UG SEMESTERS 3 &5 effective from 20/07/2020 & UG Semester-1 effective from 16.12.2020& UG SEMESTER 2/4/6effective from 01/04/2021

Academic quarter	Class	Name of Teacher	Topics to be covered	No. of lectures	Examination
July 2020-January 2021	**B.Sc Hons. Sem-1**	**Dr. Sitangshu Sekhar Bhattacharjee**	**Theory** **CEMA-CC—1-2-TH:** **Practical** **CEMA-CC—1-2-P:** Physical Chemistry P-1 Lab	**NA** 1	
	B.Sc Hons. Sem-2	**Dr. Sitangshu Sekhar Bhattacharjee**	No Physical Chemistry	N.A.	
	B.Sc Hons. Sem-3 [Covid – Hybrid mode]	**Dr. Sitangshu Sekhar Bhattacharjee**	**Theory** **CEMA-CC—3-5-TH:** Chemical Thermodynamics - 1 Chemical Thermodynamics - 2 System of Variable Composition Application of Thermodynamics - 1 **Practical** **CEMA-CC—3-5-P:** Conductometric and Potentiometric Experiments	25 10	
	B.Sc Hons. Sem-4	**Dr. Sitangshu Sekhar Bhattacharjee**	**Theory** **CEMA-CC—4-9-TH:** Not Allotted **Practical** **CEMA-CC—4-9-P:** Experiments on Kinetic Study, Phase Diagram, Partition Coefficient, pH-metry	 N.A. 30	

	B.Sc Hons. Sem-5 [Covid – Hybrid mode]	**Dr. Sitangshu Sekhar Bhattacharjee**	**DSE-A-2: Application of Computers in Chemistry** **Theory** MS Excel (LINEST, SOLVER, GOALSEEK) Statistical Analysis **Practical (Online & Offline)**	 30 20	
	B.Sc Hons. Sem-6	**Dr. Sitangshu Sekhar Bhattacharjee**	**Theory** **CEMA-CC—6-14-TH:** Molecular Spectroscopy Photochemistry **Practical** **CEMA-CC-6-14-P** Experiments on Surface Tension, Spectrophotometry, Kinetics, pH-metry	 10 30	
	Sem 1 [Covid – Hybrid mode]	**Dr. Sarmila Basu (Sarkar)**	**Practical [G]** **CEMG-CC1/GE1-P** Titrimetric Experiments	 10	
	Sem 2	**Dr. Sarmila Basu (Sarkar)**	**Practical [H]** **CEMA-CC-2-4-P:** Iodo/Iodimetric Titrations Estimation of Metal Content in some selective Samples **Practical[G]** **CEMG-CC-2/GE-2:** Experiments on kinetic study, Viscosity, Solubility, Buffer, Surface Tension	 10 30	
	Sem 3 [Covid – Hybrid mode]	**Dr. Sarmila Basu (Sarkar)**	**Theory [H]** **SEC-A-2** Analytical clinical Biochemistry **Practical [G]** **CEMG-CC-3/GE3:** Qualitative semi micro analysis of mixtures containing two radicals	 25 10	
	Sem 4	**Dr. Sarmila Basu (Sarkar)**	**Theory [H]** **SEC-B-3** Pharmaceutical Chemistry **Theory[G]** **CEMG-CC4/GE4** Alcohols, Phenols, Ehers, Carbonyl Compounds, Carboxylic acid and their derivatives, Amino acids,	 25 14	

			Carbohydrates **Practical [G]** **CEMG-CC-4/GE4** Qualitative analysis of Single solid Organic Compounds, Identification of pure organic componds.	 30	
	Sem 5	**Dr. Sarmila Basu (Sarkar)**	**Theory [H]** **CEMA-CC-5-12-TH:** Biomolecules **Practical [H]** **CEMA-CC-5-12-P** Chromatographic Separation & Spectroscopic analysis of Organic Compounds **Theory[G]** **DSE-A-2** Inorganic materials of Industrial Importance	 14 10 14	
	Sem 6	**Dr. Sarmila Basu (Sarkar)**	**Practical[G]** **DSE-B-1:** Green Chemistry	 14	
	Sem 1 [Covid – Hybrid mode]	**Dr. Arindam Rana**	**Theory** **CEMA-CC—1-1-TH:** Extra Nuclear Structure of Atom **Practical** **CEMA-CC—1-1-P:** Acid-Base Titrations Redox Titrations	 14 10	
	Sem 2	**Dr. Arindam Rana**	**Theory** **CEMA-CC—2-4-TH:** Chemical Bonding-2 **Practical** **CEMA-CC—2-4-P:** Iodo-/Iodimetric Titrations Estimation of Metal contents in some selective samples	 20 30	
	Sem 3 [Covid – Hybrid mode]	**Dr. Arindam Rana**	**Theory** **CEMA-CC—3-6-TH:** Chemical Periodicity Chemistry of s-block elements Chemistry of p-block elements (Gr. 13-16) Noble Gases **Practical** **CEMA-CC—3-6-P:** Complexometric Titrations Chromatography of Metal ions	 30 14	

			Gravimetry		
	Sem 4	**Dr. Arindam Rana**	**Theory** **CEMA-CC—4-10-TH:** Coordination Chemistry-II **Practical** Not Allotted	 20 N.A.	
	Sem 5 [Covid – Hybrid mode]	**Dr. Arindam Rana**	**DSE-B-1: Inorganic Materials of Industrial Importance** **Theory** Silicate Industries Fertilisers Batteries Chemical Explosives **Practical**	 20 14	
	Sem 6	**Dr. Arindam Rana**	**Theory** **CEMA-CC—6-13-TH:** Theoretical Principles of Qualitative Analysis Bioinorganic Chemistry **Practical** **CEMA-CC—6-13-P:** Qualitative Semimicro Analysis	 25 30	
	B.Sc. Hons, SEM-1 (Covid-Hybride Online-Offline)	**Dr. Biswajit Panda**	**THEORY** **CEMA-CC-1-1-Th:** General Treatment Of Reaction Mechanism I **CEMA-CC-1-2-Th** Stereochemistry I General Treatment Of Reaction Mechanism I Bonding and Physical Properties **PRACTICAL** **CEMA-CC-1-1,** **CEMA-CC-1-2** Separation of organic solid mixture based on solubility Determination of boiling point of organic liquid	 2 15 3 10 15	

	B.Sc. Hons, SEM-2	**Dr. Biswajit Panda**	**THEORY** **CEMA-CC-2-3** General Treatment of Reaction Mechanism-II, Free Radical Substitution Reaction & Elimination Reaction **PRACTICAL** **CEMA-CC-2-3-P** Organic Preparations	15 15 30	
	B.Sc. Hons, SEM-3 (Covid-Hybride Online-Offline)	**Dr. Biswajit Panda**	**THEORY** **CC-3-7 TH** Chemistry of alkenes and alkynes Aromatic Substitution Organometallics **PRACTICAL** **CC-3-7 P** Quantitative Estimation, Identification of a Pure Organic Compound, Solid & Liquid	12 8 4 15	
	B.Sc. Hons, SEM-4	Dr. Biswajit Panda	**THEORY** **CEMA-CC-4-8-Th** The Logic of Organic Synthesis, Nitrogen Compounds, Rearrangements, Asymmetric Synthesis **PRACTICAL** **CEMA-CC-4-8-P** Qualitative Analysis of single solid organic compound	10 20 5 30	
	B.Sc. Hons, SEM-5 (Covid-Hybride Online-Offline)	**Dr. Biswajit Panda**	**THEORY** **CC-5-12 TH** Heterocyclic Compounds Cyclic Stereochemistry Pericyclic Reactions **PRACTICAL** **CC-5-12 P** Chromatographic	14 8 6	

			Separation of Organic Compounds Spectroscopic Analysis of Organic Compounds	15	
	B.Sc. Hons, SEM-6	**Dr. Biswajit Panda**	**THEORY** **DSE-A3** Green Chemistry and chemistry of natural products **PRACTICAL** **DSE-A3** Green chemistry **DSE B4** **Dissertation**(full paper)	30 30 30	
	B.Sc. Gen, SEM-6	**Dr. Biswajit Panda**	**THEORY** **DSE-B1** Green Chemistry and chemistry of natural products **PRACTICAL** **DSE-B1** Green chemistry	12 20	
	B.Sc Hons. Sem 1 [Covid – Hybrid online-offline]	**Dr. Pampa Guha**	**Theory** **CEMA-CC—1-1-TH:** Redox Reactions Acid-Base reactions **Practical** **CEMA-CC—1-1-P:** Acid-Base Titrations Redox Titrations	30 10	
	B.Sc Hons. Sem 2	**Dr. Pampa Guha**	**Theory** **CEMA-CC—2-4-TH:** Chemical Bonding-1 **Practical** **CEMA-CC—2-4-P:** Iodo-/Iodimetric Titrations Estimation of Metal contents in some selective samples	30 30	
	B.Sc Hons. Sem 3 [Covid – Hybrid mode]	**Dr. Pampa Guha**	**Theory** **CEMA-CC—3-6-TH:** Coordination Chemistry-I Chemistry of p-block elements (Gr. 17) Inorganic Polymers: **Practical**	30	

			CEMA-CC—3-6-P: Complexometric Titrations Chromatography of Metal ions Gravimetry	14	
	B.Sc Hons. Sem 4	**Dr. Pampa Guha**	**Theory** **CEMA-CC—4-10-TH:** Transition Elements Lanthanoids and Actinoids Reaction Kinetics and Mechanism **Practical** Inorganic preparations Instrumental Techniques	30 30	
	B.Sc Hons. Sem 5 [Covid – Hybrid mode]	**Dr. Pampa Guha**	**DSE-B-1: Inorganic Materials of Industrial Importance** **Theory** Surface Coatings: Alloys: Catalysis: Chemical Explosives **Practical** PRACTICALS-DSE B-1: INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	 30 14	
	B.Sc Hons. Sem 6	**Dr. Pampa Guha**	**Theory** **CEMA-CC—6-13-TH:** Organometallic Chemistry Catalysis by Organometallic Compounds **Practical** **CEMA-CC—6-13-P:** Qualitative Semimicro Analysis	 30 30	
	B.Sc. Sem 1 HONS [Covid – Hybrid mode]	**Dr. Shreyasi Dutta**	**Theory [H]** **CEMA-CC—1-1A-TH:** Bonding and Physical Properties **Practical [H]** **CEMA-CC—1-1-P:** Organic Chemistry: O(1A) Lab Separation of Organic Compounds	 14 10	
	B.Sc. Sem 1 General	**Dr. Shreyasi Dutta**	**Theory [G]** **CEMG-CC1/GE1** Fundamental Organic chemistry	 14	

	B.Sc Hons. Sem 2	**Dr. Shreyasi Dutta**	**Theory [H]** **CEMA-CC-2-3-TH:** General Treatment of Reaction Mechanism **Practical [H]** **CEMA-CC-2-3-P:** Organic Preparations	14 30	
	B.Sc Hons. Sem 3 [Covid – Hybrid mode]	**Dr. Shreyasi Dutta**	**Theory [H]** **CEMA-CC—3-7-TH:** Carbonyl and Related compounds **Practical [H]** **CEMA-CC—3-5-P:** Conductometric and Potentiometric Experiments	14 14	
	B.Sc Hons. Sem 4	**Dr. Shreyasi Dutta**	**Theory [H]** **CEMA-CC—4-8-TH:** Organic Spectroscopy **Practical [H}** **CEMA-CC—4-8-P:** Qualitative analysis of Single solid Organic Compounds	14 30	
	B.Sc Hons. Sem 5 [Covid – Hybrid mode]	**Dr. Shreyasi Dutta**	**Theory [H]** **CEMA-CC-5-11-TH:** Quantum Chemistry – II **Practical [H]** **CEMA-CC-5-12-P** Chromatographic Separation & Spectroscopic analysis of Organic Compounds	30 14	
	B.Sc Hons. Sem 6	**Dr. Shreyasi Dutta**	**Theory [H]** **DSE-B-4: Dissertation [H]**	30	
	B.Sc Hons. Sem 1 [Covid – Hybrid mode]	**Dr. Timir Hajari**	**Theory [H]** **CEMA-CC—1-2-TH:** Kinetic Theory of Gas **Practical [H]** **CEMA-CC—1-2-P:** Physical Chemistry P-1 Lab	20 10	
	B.Sc General Sem 1 [Covid – Hybrid mode]	**Dr. Timir Hajari**	**Theory [G]** **CEMG-CC1/GE1** Kinetic Theory of Gas, Liquid Stereochemistry **Practical [G]** **CEMG-CC1/GE1** Titrimetry	14 10	

	B.Sc Hons. Sem 2	**Dr. Timir Hajari**	**Theory [G]** **CEMG-CC2/GE2** Chemical Thermodynamics Chemical Equilibrium **Practical [G]** **CEMG-CC2/GE2** Experiments on Kinetic Study, Viscosity, Solubility, Buffer, Surface Tension	14 30	
	B.Sc Hons. Sem 3 [Covid – Hybrid mode]	**Dr. Timir Hajari**	**Theory [H]** **CEMA-CC—3-5-TH:** Electrochemistry **Practical [H]** **CEMA-CC—3-5-P:** Conductometric and Potentiometric Experiments	20 14	
	B.Sc Hons. Sem 4	**Dr. Timir Hajari**	**Theory [H]** **CEMA-CC—4-9-TH:** Foundation of Quantum Mechanics Crystal Structure **Practical [H}** **CEMA-CC—4-9-P:** Experiments on Kinetic Study, Phase Diagram, Partition Coefficient, pH-metry **Practical [G]** **CEMG-CC4/GE4** Qualitative analysis and Identification of Organic Compounds	25 30 30	
	B.Sc Hons. Sem 5 [Covid – Hybrid mode]	**Dr. Timir Hajari**	**DSE-A-2: Application of Computers in Chemistry** **Theory [H]** Computer Programming - FORTRAN **Practical [H] (Online & Offline)** **DSE-A-2** Excel **CC-5-11-P** FORTRAN	 14 20 30	
	B.Sc Hons. Sem 6	**Dr. Timir Hajari**	**Theory [H]** **CEMA-CC—6-14-TH:** Molecular Spectroscopy **DSE-B-4: Dissertation [H]** **Practical [H]** **CEMA-CC-6-14-P:** Experiments on Surface Tension, Spectrophotometry	 14 30 30	

	B.Sc Hons. Sem 1 [Covid – Hybrid mode]	**Mr. Manish Das**	**Theory [H]** **CEMA-CC—1-2-TH:** Transport process, Chemical kinetics **Practical [H]** **CEMA-CC—1-2-P:** Physical Chemistry P-1 Lab Experiments on Kinetic Study ,Viscosity **Theory [G]** **CEMG-CC1/GE1** Chemical kinetics, Atomic Structure, Acids and Bases, Periodic table **Practical [G]** **CEMG-CC1/GE1** Titrimetry	30 10 30 10	
	B.Sc Hons. Sem 2	**Mr. Manish Das**	**Theory [G]** **CEMG-CC2/GE2** Solutions, Phase Equilibrium, Solids, Error analysis **Practical [G]** **CEMG-CC2/GE2** Experiments on Kinetic Study, Viscosity, Solubility, Buffer, Surface Tension	14 30	
	B.Sc Hons. Sem 3 [Covid – Hybrid mode]	**Mr. Manish Das**	**Theory [H]** **CEMA-CC—3-5-TH:** Electrochemistry 1.Conductance and transport number **Practical [H]** **CEMA-CC—3-5-P:** Conductometric and Potentiometric Experiments **Theory[G]** **CEMG-CC3/GE3** Comparative study of p-block elements, Transition elements, Coordination Chemistry **Practical [G]** **CEMG-CC3/GE3** NIL	14 10 14 N.A.	

	B.Sc Hons. Sem 4	**Mr. Manish Das**	**Theory [H]** **CEMA-CC—4-9-TH:** Application of Thermodynamics-II Colligative properties Phase equilibrium **Practical [H}** **CEMA-CC—4-9-P:** Experiments on Kinetic Study, Phase Diagram, Partition Coefficient, pH-metry **Practical [G]** **CEMG-CC4/GE4** NIL	14 30 N.A.	
	B.Sc Hons. Sem 5 [Covid – Hybrid mode]	**Mr. Manish Das**	**CEMA-CC-5-11-TH** Statistical Thermodynamics Numerical Analysis **Practical [H] (Online & Offline)** NIL	14 N.A.	
	B.Sc Hons. Sem 4	**Mr. Manish Das**	**Theory [H]** **CEMA-CC—6-14-TH:** Surface Phenomenon Adsorption, Colloids, Dipole moment and polarisation **Practical [H]** **CEMA-CC-6-14-P:** Experiments on Surface Tension, Spectrophotometry	14 30	

Signature of Head of the Department