

Chemistry UGCF Syllabus

Semester - I					Semester - II						
Core Course	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	Core Course	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
DSC-1	Inorganic Chemistry-I: Atomic Structure & Chemical Bonding	2172011101	3+1	Inorganic Chemistry-1.pdf			DSC-4	Inorganic Chemistry-II: Chemistry of s- and p-Block Elements	2172011201	3+1	Inorganic Chemistry 2.pdf
DSC-2	Organic Chemistry-I: Basic Concepts and Aliphatic Hydrocarbons	2172011102	3+1	Organic Chemistry-1.pdf			DSC-5	Organic Chemistry-II: Haloalkanes, Arenes, Haloarenes, Alcohols, Phenols, Ethers and Epoxides	2172011202	2+2	Organic Chemistry 2.pdf
DSC-3	Physical Chemistry-I: Gaseous and liquid state	2172011103	2+2	Physical Chemistry-1.pdf			DSC-6	Physical Chemistry-II: Chemical Thermodynamics and its Application	2172011203	3+1	Physical Chemistry 2.pdf
General Elective - 1	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	General Elective - 2	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
GE1a	Atomic Structure and Chemical Bonding	2174001001	2+2	GE Chem Atomic Structure and Chemical Bonding.pdf			GE2a	Green Chemistry	2174001201	2+2	GE Chem Green Chemistry.pdf
GE1b	Basic Concepts of Organic Chemistry	2174001002	2+2	GE Chem Basic concepts of Organic Chemistry.pdf			GE2b	Chemistry of Amino Acids, Proteins and Enzymes;	2174001202		
GE1c	Bioinorganic Chemistry	2174001003	2+2	GE Chem Bioinorganic Chemistry.pdf			GE2c	Coordination and Organometallic Compounds	2174001203	2+2	GE Chem Coordination and Organometallic Compounds.pdf

GE1d	Chemistry and Society	2174001004	2+2	GE Chem Chemistry and Society.pdf			GE2d	Chemistry of Oxygen Containing Functional Groups and Their Applications to Biology	2174001204	2+2	GE Chem Chemistry of Oxygen containing Functional Groups and their Applications to Biology.pdf
GE1e	Chemistry in Indology And Physical & Mental Well Being	2174001005	3+1	GE Chem Chemistry in Indology and Physical & Mental Well Being.pdf			GE2e	Conductance and Chemical Kinetics	2174001205		
GE1f	Chemistry of Food Nutrient	2174001006	2+2	GE Chem Chemistry of Food Nutrients.pdf			GE2f	Molecules of Life	2174001206	2+2	GE Chem Molecules of Life.pdf
GE1g	Chemistry: Statistical Methods and Data Analysis	2174001007	2+2	GE Chem Statistical Methods and Data Analysis.pdf			GE2g	Chemical Kinetics and Photochemistry	2174001207	2+2	GE Chem Chemical Kinetics and Photochemistry.pdf
GE1h	Conductance and Electrochemistry	2174001008	2+2	GE Chem Conductance and Electrochemistry.pdf			GE2h	Basics of Polymer Chemistry	2174001208	2+2	GE Chem Basics of Polymer Chemistry.pdf
GE1i	Medicines in Daily Life	2174001009	2+2	GE Chem Medicines in Daily Life.pdf			GE2i	Molecular Modelling, Artificial Intelligence and Machine Learning	2174001209	2+2	GE Chem Molecular Modelling, Artificial Intelligence and Machine Learning.pdf
GE1j	Radiochemistry in Energy, Medicine and Environment	2174001010	3+1	GE Chem Radio-chemistry in Energy, Medicine and Environment.pdf			GE2j	Role of Metals in Medicines	2174001210	2+2	GE Chem Role of Metals in Medicines.pdf
GE1k	States of Matter	2174001011	2+2	GE Chem States of Matter.pdf			GE2k	Energy and The Environment	2174001211	3+1	GE Chem Energy and the Environment.pdf

								Chemistry of Fragrances and Flavours: An Industry's Perspective	2174001212	3+1	GE_Chem_Chemistry of Frangrance and Flavours.....pdf
Semester - III						Semester - IV					
Core Course	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	Core Course	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
DSC-7	Inorganic Chemistry-III: Chemistry of d- and f-Elements & quantitative Inorganic Analysis	2172012301	2+2	Inorganic Chemistry 3.pdf			DSC-10	Inorganic Chemistry -IV: Coordination Chemistry and Reaction Mechanism	2172012401	3+1	Inorganic Chemistry 4.pdf
DSC-8	Organic Chemistry-III: Carbonyls, Carboxylic Acids, Amines, Nitro Compounds, Nitriles, Isonitriles and Diazonium salts	2172012302	3+1	Organic Chemistry 3.pdf			DSC-11	Organic Chemistry-IV: Carbohydrates, Lipids and Heterocyclic Compounds	2172012402	3+1	Organic Chemistry 4.pdf
DSC-9	Physical Chemistry-III: Chemical equilibrium, Ionic equilibrium, conductance and solid state	2172012303	3+1	Physical Chemistry 3.pdf			DSC-12	Physical Chemistry-IV: Electrochemical Cells, Chemical Kinetics and Catalysis	2172012403	3+1	Physical Chemistry 4.pdf
General Elective - 3	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	General Elective - 4	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
GE3a	Atomic Structure and Chemical Bonding	2174001001	2+2	GE_Chem Atomic Structure and Chemical Bonding.pdf			GE4a	Green Chemistry	2174001201	2+2	GE_Chem Green Chemistry.pdf
GE3b	Basic Concepts of Organic Chemistry	2174001002	2+2	GE_Chem Basic concepts of Organic Chemistry.pdf			GE4b	Chemistry of Amino Acids, Proteins and Enzymes;	2174001202		

GE3c	Bioinorganic Chemistry	2174001003	2+2	GE Chem Bioinorganic Chemistry.pdf			GE4c	Coordination and Organometallic Compounds	2174001203	2+2	GE Chem Coordination and Organometallic Compounds.pdf
GE3d	Chemistry and Society	2174001004	2+2	GE Chem Chemistry and Society.pdf			GE4d	Chemistry of Oxygen Containing Functional Groups and Their Applications to Biology	2174001204	2+2	GE Chem Chemistry of Oxygen containing Functional Groups and their Applications to Biology.pdf
GE3e	Chemistry in Indology And Physical & Mental Well Being	2174001005	3+1	GE Chem Chemistry in Indology and Physical & Mental Well Being.pdf			GE4e	Conductance and Chemical Kinetics	2174001205		
GE3f	Chemistry of Food Nutrient	2174001006	2+2	GE Chem Chemistry of Food Nutrients.pdf			GE4f	Molecules of Life	2174001206	2+2	GE Chem Molecules of Life.pdf
GE3g	Chemistry: Statistical Methods and Data Analysis	2174001007	2+2	GE Chem Statistical Methods and Data Analysis.pdf			GE4g	Chemical Kinetics and Photochemistry	2174001207	2+2	GE Chem Chemical Kinetics and Photochemistry.pdf
GE3h	Conductance and Electrochemistry	2174001008	2+2	GE Chem Conductance and Electrochemistry.pdf			GE4h	Basics of Polymer Chemistry	2174001208	2+2	GE Chem Basics of Polymer Chemistry.pdf
GE3i	Medicines in Daily Life	2174001009	2+2	GE Chem Medicines in Daily Life.pdf			GE4i	Molecular Modelling, Artificial Intelligence and Machine Learning	2174001209	2+2	GE Chem Molecular Modelling, Artificial Intelligence and Machine Learning.pdf
GE3j	Radiochemistry in Energy, Medicine and Environment	2174001010	3+1	GE Chem Radio-chemistry in Energy, Medicine and Environment.pdf			GE4j	Role of Metals in Medicines	2174001210	2+2	GE Chem Role of Metals in Medicines.pdf

GE3k	States of Matter	2174001011	2+2	GE Chem States of Matter.pdf			GE4k	Energy and The Environment	2174001211	3+1	GE Chem Energy and the Environment.pdf
GE3l	Molecular Modelling, Artificial Intelligence and Machine Learning	2174001209	2+2	GE Chem Molecular Modelling, Artificial Intelligence and Machine Learning.pdf			GE4l	Chemistry of Fragrances and Flavours: An Industry's Perspective	2174001212	3+1	GE Chem Chemistry of Fragrance and Flavours.....pdf
Discipline Specific Elective - 1	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	Discipline Specific Elective - 2	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
DSE1a	Nuclear and Environmental Chemistry	2173010001	3+1	Chem DSE Nuclear and Environmental Chemistry.pdf			DSE2a	Reactions, Reagents and Chemical Process	2173010004	3+1	Chem DSE Reactions, Reagents and Chemical Process.pdf
DSE1b	Inorganic Materials of Industrial Importance	2173010002	3+1	Chem DSE Inorganic Materials of Industrial Importance.pdf			DSE2b	Solutions, Colligative properties, Phase Equilibria and adsorption	2173010005	3+1	Chem DSE Solutions, Colligative Properties.pdf
DSE1c	Green Chemistry in Organic Synthesis	2173010003	3+1	Chem DSE Green Chemistry in Organic Synthesis.pdf			DSE2c	Applications of Computers in Chemistry	2173010006	3+1	Chem DSE Applications of Computers in Chemistry.pdf
Semester - V						Semester - VI					
Core Course	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	Core Course	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
DSC-13	Inorganic Chemistry-V: Basics of Organometallic Chemistry	2172013501	3+1	Inorganic Chemistry 5.pdf			DSC-16	Inorganic Chemistry-VI: Principles in Qualitative Analysis and Bioinorganic Chemistry	2172013601	2+2	Inorganic Chemistry 6.pdf

DSC-14	Organic Chemistry- V: Nucleic Acids, Amino Acids, Proteins and Enzymes	2172013502	2+2	Organic Chemistry 5.pdf			DSC-17	Organic Chemistry-VI: Polynuclear Hydrocarbons, Photochemistry, Pericyclic Reactions, and Spectroscopy of Organic Compounds	2172013602	3+1	Organic Chemistry 6.pdf
DSC-15	Physical Chemistry-V: Quantum Chemistry and Covalent bonding	2172013503	3+1	Physical Chemistry 5.pdf			DSC-18	Physical Chemistry-VI: Photochemistry and Spectroscopy	2172013603	2+2	Physical Chemistry 6.pdf
General Elective -5	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	General Elective - 6	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
GE5a	Atomic Structure and Chemical Bonding	2174001001	2+2	GE Chem Atomic Structure and Chemical Bonding.pdf			GE6a	Green Chemistry	2174001201	2+2	GE Chem Green Chemistry.pdf
GE5b	Basic Concepts of Organic Chemistry	2174001002	2+2	GE Chem Basic concepts of Organic Chemistry.pdf			GE6b	Chemistry of Amino Acids, Proteins and Enzymes;	2174001202		
GE5c	Bioinorganic Chemistry	2174001003	2+2	GE Chem Bioinorganic Chemistry.pdf			GE6c	Coordination and Organometallic Compounds	2174001203	2+2	GE Chem Coordination and Organometallic Compounds.pdf
GE5d	Chemistry and Society	2174001004	2+2	GE Chem Chemistry and Society.pdf			GE6d	Chemistry of Oxygen Containing Functional Groups and Their Applications to Biology	2174001204	2+2	GE Chem Chemistry of Oxygen containing Functional Groups and Their Applications to Biology.pdf

GE5e	Chemistry in Indology And Physical & Mental Well Being	2174001005	3+1	GE Chem Chemistry in Indology and Physical & Mental Well Being.pdf			GE6e	Conductance and Chemical Kinetics	2174001205		
GE5f	Chemistry of Food Nutrient	2174001006	2+2	GE Chem Chemistry of Food Nutrients.pdf			GE6f	Molecules of Life	2174001206	2+2	GE Chem Molecules of Life.pdf
GE5g	Chemistry: Statistical Methods and Data Analysis	2174001007	2+2	GE Chem Statistical Methods and Data Analysis.pdf			GE6g	Chemical Kinetics and Photochemistry	2174001207	2+2	GE Chem Chemical Kinetics and Photochemistry.pdf
GE5h	Conductance and Electrochemistry	2174001008	2+2	GE Chem Conductance and Electrochemistry.pdf			GE6h	Basics of Polymer Chemistry	2174001208	2+2	GE Chem Basics of Polymer Chemistry.pdf
GE5i	Medicines in Daily Life	2174001009	2+2	GE Chem Medicines in Daily Life.pdf			GE6i	Molecular Modelling, Artificial Intelligence and Machine Learning	2174001209	2+2	GE Chem Molecular Modelling, Artificial Intelligence and Machine Learning.pdf
GE5j	Radiochemistry in Energy, Medicine and Environment	2174001010	3+1	GE Chem Radio-chemistry in Energy, Medicine and Environment.pdf			GE6j	Role of Metals in Medicines	2174001210	2+2	GE Chem Role of Metals in Medicines.pdf
GE5k	States of Matter	2174001011	2+2	GE Chem States of Matter.pdf			GE6k	Energy and The Environment	2174001211	3+1	GE Chem Energy and the Environment.pdf
GE5l	Chemical Kinetics and Photochemistry	2174001207	2+2	GE Chem Chemical Kinetics and Photochemistry.pdf			GE6l	Chemistry of Fragrances and Flavours: An Industry's Perspective	2174001212	3+1	GE Chem Chemistry of Fragrance and Flavours.....pdf
Discipline Specific Elective - 3	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	Discipline Specific Elective - 4	Name of the Course	Unique Paper Code	Credits	Link to Syllabus

DSE3a	Novel Inorganic Solids	2173010008	3+1	Chem DSE Novel Inorganic Solids.pdf			DSE4a	Analytical Methods in Chemistry	2173010010	3+1	Chem DSE Analytical Methods in Chemistry.pdf
DSE3b	Applied Organic Chemistry	2173010009	3+1	Chem DSE Applied Organic Chemistry.pdf			DSE4b	Basic Principles of Food Chemistry	2173010011	3+1	Chem DSE Basic Principles of Food Chemistry.pdf
DSE3c	Applications of Computers in Chemistry	2173010006	3+1	Chem DSE Applications of Computers in Chemistry.pdf			DSE4c	Computational Methods & Molecular Modelling	2173010012	3+1	Chem DSE Computational Methods and Molecular Modelling.pdf
DSE3d							DSE4d	Research Methodology for Chemists	2173010013	3+1	Chem DSE Research Methodology for Chemists.pdf
Semester - VII						Semester - VIII					
Core Course	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	Core Course	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
DSC-19			3+1				DSC-20			3+1	
General Elective	Name of the Course	Unique Paper Code	Credits	Link to Syllabus	Link of DU site having the course syllabus	Page Number of syllabus	General Elective - 1	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
GE			3+1				GE			3+1	
GE							GE				
GE							GE				
GE							GE				
GE							GE				
Discipline Specific Elective	Name of the Course	Unique Paper Code	Credits	Link to Syllabus			Discipline Specific Elective	Name of the Course	Unique Paper Code	Credits	Link to Syllabus
DSE							DSE				
DSE							DSE				
DSE							DSE				
DSE							DSE				