



**दिल्ली विश्वविद्यालय**  
**UNIVERSITY OF DELHI**

**SEMESTER EXAMINATIONS - (JULY-2020)**

**Date-Sheet for B.Sc. (Programme) Choice Based Credit System (CBCS) Part-III meant for (VI Semester), Ex-students and students will appear for II/IV semester alongwith VI Semester Exams July- 2020 only for ER & improvement as per rule.**

Semester Scheme (Admissions of 2015, 2016 & 2017)

Life Sciences, Applied Life Sciences (Agro Chemical and Pest Management), Physical Sciences and Applied Physical Science (Analytical Chemistry, Industrial Chemistry)

**Time of Commencement: 7:30 AM To 10:30 P.M.**

SUBJECT	SEM.	UNIQUE PAPER CODE	DESCRIPTION
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1<sup>st</sup> July, Wednesday

**Skill Enhancement Elective**

	VI	42163601	Intellectual Property Rights
	VI	42173901	Plants Quarantine
	VI	42173902	Biotechnology
	VI	42173903	Plant health diagnostics and Management
	VI	42173905	Plants regulators and Economic Botany
	VI	42173906	Forensic Science
	VI	42173907	Biotechnological control of Pest
	VI	42173909	Biological Control of Crop pests
	VI	42173910/ 32173906	Intellectual Property Rights(IPR)
	VI	42173913	Conventional Insecticides
	VI	42173915	Use of nuclear technology for agro-pest management
	VI	42173917	Biological Insecticides
	VI	42173918	Pesticide Formulations
	VI	42173919	Analytical Techniques involved in Pesticide Analysis
	VI	42173920	Quality control in IPM
	VI	42173921	Medicinal Plants and IPR (Intellectual Property Rights)
	VI	42173922	Analytical Clinical Biochemistry
	VI	42173923/ 32173923	Basic Analytical Chemistry
	VI	42173924	Instrumental Methods of Analysis
	VI	32173901	IT Skills for Chemists
	VI	32173903	Chemical Technology & Society
	VI	32173904	Chemoinformatics
	VI	32173905	Business Skills for Chemists
	VI	32173908	Green Methods in Chemistry
	VI	32173909	Pharmaceutical Chemistry
	VI	32173910	Chemistry of Cosmetics & Perfumes
	VI	32173911	Pesticide Chemistry
	VI	32173912	Fuel Chemistry
	VI	42343601	Android Programming

Note: In Open Book Examinations (DBE) mode as one time measure for Academic session 2019-20 in view of Covid-19 pandemic.

Printed on: 4 June 2020

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**Date-Sheet for B.Sc. (Programme) Choice Based Credit System (CBCS) Part-III meant for (VI Semester), Ex-students and students will appear for II/IV semester alongwith VI Semester Exams July- 2020 only for ER & improvement as per rule.**

SUBJECT	SEM.	UNIQUE PAPER CODE	DESCRIPTION
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**1<sup>st</sup> July, Wednesday**

**Skill Enhancement Elective**

	VI	42353604	Transportation and Network Flow Problems
	VI	42363601	Business Data Analysis
	VI	32223901	Physics Workshop Skills
	VI	32223902	Computational Physics Skills
	VI	32223903	Electrical circuits and Network Skills
	VI	32223904	Basic Instrumentation Skills
	VI	32223905	Renewable Energy and Energy harvesting
	VI	32233905	Sericulture
	VI	32223906	Technical Drawing
	VI	32223907	Radiation Safety
	VI	32223908	Applied Optics
	VI	32223909	Weather Forecasting
	VI	32233902	Aquarium Fish Keeping
	VI	32513901	Design and Fabrication of Printed Circuit Boards
	VI	42233902	Aquatic Biology
	VI	42233904	Public Health and Hygiene

**2<sup>nd</sup> July, Thursday**

**Skill Enhancement Elective**

	IV	32163404	Medicinal Botany
	IV	31073902/ 32163403	Biofertilizes
	IV	42173901	Plants Quarantine
	IV	42173902	Biotechnology
	IV	42173903	Plant health diagnostics and Management
	IV	42173905	Plants regulators and Economic Botany
	IV	42173906	Forensic Science
	IV	42173907	Biotechnological control of Pest
	IV	42173909	Biological Control of Crop pests
	IV	42173910/ 32173906	Intellectual Property Rights(IPR)
	IV	42173913	Conventional Insecticides
	IV	42173915	Use of nuclear technology for agro-pest management
	IV	42173917	Biological Insecticides
	IV	42173918	Pesticide Formulations
	IV	42173919	Analytical Techniques involved in Pesticide Analysis
	IV	42173920	Quality control in IPM
	IV	42173921	Medicinal Plants and IPR (Intellectual Property Rights)
	IV	42173922	Analytical Clinical Biochemistry
	IV	42173923/ 32173902	Basic Analytical Chemistry
	IV	42173924	Instrumental Methods of Analysis
	IV	32173901	IT Skills for Chemists
	IV	32173903	Chemical Technology & Society
	IV	32173904	Chemoinformatics
	IV	32173905	Business Skills for Chemists

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SUBJECT	SEM.	UNIQUE PAPER CODE	DESCRIPTION
<b>2<sup>nd</sup> July, Thursday Contd...</b>			<b><i>Skill Enhancement Elective</i></b>
	IV	32173908	Green Methods in Chemistry
	IV	32173909	Pharmaceutical Chemistry
	IV	32173910	Chemistry of Cosmetics & Perfumes
	IV	32173911	Pesticide Chemistry
	IV	32173912	Fuel Chemistry
	IV	42343408	PHP Programming
	IV	42363406	Project Management
	IV	42353404	Computer Algebra Systems
	IV	32223901	Physics Workshop Skills
	IV	32223902	Computational Physics Skills
	IV	32223903	Electrical circuits and Network Skills
	IV	32223904	Basic Instrumentation Skills
	IV	32223905	Renewable Energy and Energy harvesting
	IV	32233905	Sericulture
	IV	32223906	Technical Drawing
	IV	32223907	Radiation Safety
	IV	32223908	Applied Optics
	IV	32223909	Weather Forecasting
	IV	32233902	Aquarium Fish Keeping
	IV	32513901	Design and Fabrication of Printed Circuit Boards
	IV	42233902	Aquatic Biology
	IV	42233904	Public Health and Hygiene

**3<sup>rd</sup> July, Friday**

**Discipline Specific Elective-1B**

Electronics	VI	42517614	Verilog and FPGA based system Design
Electronics	VI	42517615	Photonic devices and Power Electronics
Electronics	VI	42517616	Antenna Theory and wireless Network
Computer Science	VI	42347903	Internet Technologies
App. Life Science with Agro Chemical & Pest Management	VI	42167903	Genetics and Plant Biotechnology
	VI	42167906	Plants regulators and Economic Botany
	VI	42237907	General Entomology
	VI	42237908	Applied Entomology
	VI	42237909	Integrated Pest Management
	VI	42177933	Soils And Fertilizers
	VI	42177937	Herbicides
	VI	42177935	Fungicides
Analytical/Industry Chemistry	VI	42177915	Analytical Biochemistry
	VI	42177916	Instrumental Methods of Analysis
	VI	32177908	Green Chemistry
	VI	42177918	Industrial Chemicals and Environment
	VI	42177919	Application of Computers in Chemistry
	VI	42177920	Molecular Modelling & Drug Design

**Date-Sheet for B.Sc. (Programme) Choice Based Credit System (CBCS) Part-III meant for (VI Semester), Ex-students and students will appear for II/IV semester alongwith VI Semester Exams July- 2020 only for ER & I improvement as per rule.**

SUBJECT	SEM.	UNIQUE PAPER CODE	DESCRIPTION
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**3<sup>rd</sup> July, Friday Contd...**

**Discipline Specific Elective-1B**

	VI	32177901	Novel Inorganic Solids
	VI	32177906	Polymer Chemistry
	VI	32177907	Research Methodology for Chemistry
	VI	32177902	Inorganic Materials of Industrial Importance
	VI	42177925	Chemistry of d-Block elements, Quantum Chemistry & Spectroscopy
	VI	42177926	Organometallics, Bio-inorganic Chemistry, Polynuclear Hydrocarbons and UV, IR
	VI	32177904	Analytical Methods in Chemistry
	VI	42357633	Differential Equations
	VI	42357634	Calculus and Geometry
Life Sciences	VI	42167901	Economic Botany and Biotechnology
	VI	42167902	Cell and Molecular Biology.
	VI	42167904	Analytical Techniques in Plant Sciences
	VI	42167905	Bioinformatics
	VI	42167907	Research Methodology
	VI	42177913	Molecules of Life
	VI	32237910	Reproductive Biology
	VI	32237911	Wild Life Conservation and Management
	VI	42237903	Animal Biotechnology
	VI	42237904	Immunology
	VI	42237905	Applied Zoology
	VI	42237912	Insect, Vector and Diseases
	VI	42237913	Aquatics Biology
Mathematics	VI	42357618	Numerical Methods
	VI	42357602	Probability and Statistics
Operational Research	VI	42367903	Integer Programming and Theory of Games
	VI	42367904	Logistics and Supply Chain Management
Physics	VI	42227637	Solid State Physics
	VI	42227638	Embedded System: Introduction to microcontroller
	VI	42227639	Nuclear and Particle Physics
	VI	42227640	Quantum Mechanics
	VI	42227641	Digital Signal processing
	VI	42227642	Astronomy and Astrophysics
	VI	42227643	Atmospheric Physics
	VI	42227644	Physics of the Earth
	VI	42227645	Biological physics

**4<sup>th</sup> July, Saturday**

Computer Science	IV	42344403	Computer System Architecture
Electronics	IV	42514413	Microprocessor and Microcontroller

**6<sup>th</sup> July, Monday**

Life Science	II	42161201	Plant Ecology and Taxonomy
Applied Life Science with Agro Chemical & Pest Management	II	42171201	Agricultural Botany and Weed science

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SUBJECT	SEM.	UNIQUE PAPER CODE	DESCRIPTION
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**7<sup>th</sup> July Tuesday**

Physics	IV	42224412	Wave and Optics
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**8<sup>th</sup> July, Wednesday**

**Discipline Specific Elective-2B**

Electronics	VI	42517614	Verilog and FPGA based system Design
Electronics	VI	42517615	Photonic devices and Power Electronics
Electronics	VI	42517616	Antenna Theory and wireless Network
Computer Science	VI	42347903	Internet Technologies
App. Life Science with Agro Chemical & Pest Management	VI	42167903	Genetics and Plant Biotechnology
	VI	42167906	Plants regulators and Economic Botany
	VI	42237907	General Entomology
	VI	42237908	Applied Entomology
	VI	42237909	Integrated Pest Management
	VI	42177933	Soils And Fertilizers
	VI	42177937	Herbicides
	VI	42177935	Fungicides
Analytical/ Industry Chemistry	VI	42177915	Analytical Biochemistry
	VI	42177916	Instrumental Methods of Analysis
	VI	32177908	Green Chemistry
	VI	42177918	Industrial Chemicals and Environment
	VI	42177919	Application of Computers in Chemistry
	VI	42177920	Molecular Modelling & Drug Design
	VI	32177901	Novel Inorganic Solids
	VI	32177906	Polymer Chemistry
	VI	32177907	Research Methodology for Chemistry
	VI	32177902	Inorganic Materials of Industrial Importance
	VI	42177925	Chemistry of d-Block elements, Quantum Chemistry & Spectroscopy
	VI	42177926	Organometallics, Bio-inorganic Chemistry, Polynuclear Hydrocarbons and UV, IR
	VI	32177904	Analytical Methods in Chemistry
	VI	42357633	Differential Equations
	VI	42357634	Calculus and Geometry
Life Sciences	VI	42167901	Economic Botany and Biotechnology
	VI	42167902	Cell and Molecular Biology.
	VI	42167904	Analytical Techniques in Plant Sciences
	VI	42167905	Bioinformatics
	VI	42167907	Research Methodology
	VI	42177913	Molecules of Life
	VI	32237910	Reproductive Biology
	VI	32237911	Wild Life Conservation and Management
	VI	42237903	Animal Biotechnology
	VI	42237904	Immunology

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SUBJECT	SEM.	UNIQUE PAPER CODE	DESCRIPTION
<b>8<sup>th</sup> July, Wednesday Contd..</b>			
<b>Discipline Specific Elective-2B</b>			
	VI	42237905	Applied Zoology
	VI	42237912	Insect, Vector and Diseases
	VI	42237913	Aquatics Biology
Mathematics	VI	42357618	Numerical Methods
	VI	42357602	Probability and Statistics
Operational Research	VI	42367903	Integer Programming and Theory of Games
	VI	42367904	Logistics and Supply Chain Management
Physics	VI	42227637	Solid State Physics
	VI	42227638	Embedded System: Introduction to microcontroller
	VI	42227639	Nuclear and Particle Physics
	VI	42227640	Quantum Mechanics
	VI	42227641	Digital Signal processing
	VI	42227642	Astronomy and Astrophysics
	VI	42227643	Atmospheric Physics
	VI	42227644	Physics of the Earth
	VI	42227645	Biological physics

**9<sup>th</sup> July Thursday**

Computer Science	II	42341202	Database Management Systems
Electronics	II	42511201	Linear and Digital Integrated Circuits

**10<sup>th</sup> July Friday**

**Discipline Specific Elective-3B**

Electronics	VI	42517614	Verilog and FPGA based system Design
Electronics	VI	42517615	Photonic devices and Power Electronics
Electronics	VI	42517616	Antenna Theory and wireless Network
Computer Science	VI	42347903	Internet Technologies
App. Life Science with Agro Chemical & Pest Management	VI	42167903	Genetics and Plant Biotechnology
	VI	42167906	Plants regulators and Economic Botany
	VI	42237907	General Entomology
	VI	42237908	Applied Entomology
	VI	42237909	Integrated Pest Management
	VI	42177933	Soils And Fertilizers
	VI	42177937	Herbicides
	VI	42177935	Fungicides
Analytical/Industry Chemistry	VI	42177915	Analytical Biochemistry
	VI	42177916	Instrumental Methods of Analysis
	VI	32177908	Green Chemistry
	VI	42177918	Industrial Chemicals and Environment
	VI	42177919	Application of Computers in Chemistry
	VI	42177920	Molecular Modelling & Drug Design

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SUBJECT	SEM.	UNIQUE PAPER CODE	DESCRIPTION
<b>10<sup>th</sup> July Friday Contd...</b>			
<b>Discipline Specific Elective-3B</b>			
	VI	32177901	Novel Inorganic Solids
	VI	32177906	Polymer Chemistry
	VI	32177907	Research Methodology for Chemistry
	VI	32177902	Inorganic Materials of Industrial Importance
	VI	42177925	Chemistry of d-Block elements, Quantum Chemistry & Spectroscopy
	VI	42177926	Organometallics, Bio-inorganic Chemistry, Polynuclear Hydrocarbons and UV, IR
	VI	32177904	Analytical Methods in Chemistry
	VI	42357633	Differential Equations
	VI	42357634	Calculus and Geometry
Life Sciences	VI	42167901	Economic Botany and Biotechnology
	VI	42167902	Cell and Molecular Biology.
	VI	42167904	Analytical Techniques in Plant Sciences
	VI	42167905	Bioinformatics
	VI	42167907	Research Methodology
	VI	42177913	Molecules of Life
	VI	32237910	Reproductive Biology
	VI	32237911	Wild Life Conservation and Management
	VI	42237903	Animal Biotechnology
	VI	42237904	Immunology
	VI	42237905	Applied Zoology
	VI	42237912	Insect, Vector and Diseases
	VI	42237913	Aquatics Biology
Mathematics	VI	42357618	Numerical Methods
	VI	42357602	Probability and Statistics
Operational Research	VI	42367903	Integer Programming and Theory of Games
	VI	42367904	Logistics and Supply Chain Management
Physics	VI	42227637	Solid State Physics
	VI	42227638	Embedded System: Introduction to microcontroller
	VI	42227639	Nuclear and Particle Physics
	VI	42227640	Quantum Mechanics
	VI	42227641	Digital Signal processing
	VI	42227642	Astronomy and Astrophysics
	VI	42227643	Atmospheric Physics
	VI	42227644	Physics of the Earth
	VI	42227645	Biological physics

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SUBJECT	SEM.	UNIQUE PAPER CODE	DESCRIPTION
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**11<sup>th</sup> July, Saturday**

<b>Operational Research</b>	II	42361202	Inventory and Marketing Management
<b>Life Science</b>	II	42231202	Comparative Anatomy and Development

**12<sup>th</sup> July Sunday**

Industrial Chemistry	IV	42174406	Industrial Chemistry- 4: Pharmaceuticals, Fermentation, Pesticides & Perfumes
App. Life Science with Agro Chemical & Pest Management	IV	42174407	Molecular biology and Development biology
Analytical Chemistry	IV	42174401	Separation Methods-2
Mathematics	IV	42354401	Real Analysis

**13<sup>th</sup> July Monday**

Analytical Chemistry	II	42171204	Separation Methods-I (General Chromatography, Centrifugation, Dialysis)
App. Life Science with Agro Chemical & Pest Management	II	42171202	Cell and cellular Processes
Mathematics	II	42351201	Calculus and Geometry
Industrial Chemistry	II	42351211	Calculus and Matrices

**14<sup>th</sup> July Tuesday**

<b>Operational Research</b>	IV	42364401	Network Models and Scheduling Techniques
<b>Life Science</b>	IV	42164401	Plant Physiology and Metabolism

**15<sup>th</sup> July Wednesday**

Life Science	IV	42234406	Genetics and Evolutionary Biology
Applied Life Science with Agro Chemical & Pest Management	IV	42174402	Developmental Biology: Plants

**16<sup>th</sup> July Thursday**

Physics	II	42221201	Electricity, Magnetism and EMT
Industrial Chemistry	II	42171209	Industrial Chemistry-Fossilfuels, Cleansing Agents and Food Additives

**17<sup>th</sup> July Friday**

Chemistry	II	42171205	Chemical Energetics, Equilibria & Functional Group Organic Chemistry-I
Applied Life Science with Agro Chemical & Pest Management	II	42171211	Organic Chemistry -1

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SUBJECT	SEM.	UNIQUE PAPER CODE	DESCRIPTION
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**18<sup>th</sup> July Saturday**

Chemistry	IV	42174404	Chemistry of s- and p-block elements, States of Matter & Chemical Kinetics
Applied Life Science with Agro Chemical & Pest Management	IV	42174405	Organic Chemistry-2

**Note:-**

- **Discipline Specific Elective-1B, 2B & 3B (As per student option). The student shall appear in this paper based on alphabetical order.**
- **This is based on one time measure for academic session 2019-20 for final year in view of the Covid-19-Pandemic.**
- **The duration for examination is two hours only and one hour can be taken in addition to two hours for downloading question papers and scanning, uploading Answer sheets. The Total duration shall be Three (03) hours.**
- **Information given only on the University website i.e. [www.du.ac.in](http://www.du.ac.in) shall be considered official**

Delhi, the 4<sup>th</sup> June, 2020

  
(Prof. Vinay Gupta)  
Dean (Examinations)