



## SHIVAJI UNIVERSITY, KOLHAPUR.

**Circular No 66 Winter Session Online Exam of Oct 2021**

**Final Programme of M.Sc Part I and M.Sc Part II (Sem II To IV) C.B.C.S(Course Code 205,)Zoology,Organic,Inorganic,Physical,Analytical,Industrial,andAppliedChemistry, Botany,HorizontalMobility(Bio-Tech,Bio-Chemistry,Environmental-Biotech, Microbiology,Pharmaceutical,Microbiology),Agrochemical&pestManagement,Electronics, ComputerScience,Geology General Microbiology Examination of Oct/Nov 2021 to be held in February/March 2022.**

**INSTRUCTION:- Common instruction as per Circular No SU/Appointment /RVC/19 dated 14-01-2022 and also available on University Website [www.unishivaji.ac.in](http://www.unishivaji.ac.in)**

**1)The Online examination will be conducted in the following order**

### M.Sc Zoology

Branch :- M.Sc Part I :- Sem. II ZOOLOGY (C.B.C.S.)				New Revised From March 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
CC-201	77940	Physiological Chemistry	Monday 28-2-2022	From 12.30pm to 1.30pm
CC-202	79228	Bioinstrumentation and Biostatistics	Wednesday 2-3-2022	
CC-203	79229	Anatomy and Physiology	Thursday 3-3-2022	
CC-204	79230	Biology of Parasites	Friday 4-3-2022	

### M.Sc Zoology (C.B.C.S)

Branch –M.Sc Part II-Sem-III ZOOLOGY (C.B.C.S.)				New Revised From Oct. 2020	
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-IV	
CC-301	80554	Genetics	Tuesday 22.2.2022	From 4.30pm to 5.30pm	
CBE-302	80555	Enzymology	Wednesday 23-2-2022		
<b>CHOOSE ANY ONE OF THE FOLLOWING</b>					
CCS-303	80556	Molecular Biology of the Gene	Thursday 24-2-2022		
	80558	Animal Physiology			
	80560	Basic Entomology			
	80562	Fisheries Resources Inland and Marine fisheries			
	80564	General Sericulture and management of Mulberry			
<b>CHOOSE ANY ONE OF THE FOLLOWING</b>					
CCS-304	80557	Development Biology	Friday 25-2-2022		
	80559	Applied Physiology			
	80561	Agricultural Entomology			
	80563	Fish Pathology & Reproductive Endocrinology			
	80565	Silkworm Biology and Rearing Technology			

**M.Sc Zoology (C.B.C.S)**

<b>Last chance upto Oct 2021</b>		<b>Branch –M.Sc Part II-Sem-IV ZOOLOGY(C.B.C.S)</b>			
		<b>From April 2015</b>			
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II	
XIII	65108	Animal Cells in Biotechnology	Tuesday 22.2.2022	From 12.30pm to 1.30pm	
XIV	65109	Toxicology and Immunology	Wednesday 23-2-2022		
<b>Paper No-XV CHOOSE ANY ONE OF THE FOLLOWING</b>					
Paper – NO XV	65112	Cell in differentiation, development and specialization	Thursday 24-2-2022		
	65113	Physiology of Health			
	65114	Insect Anatomy and Physiology			
	65115	Aquaculture practices			
	65181	Cytogenetic and breeding of silkworm & Host Plants			
<b>Paper No-XVI CHOOSE ANY ONE OF THE FOLLOWING</b>					
Paper – NO XVI	65116	Cell Pathology	Friday 25-2-2022		
	65117	Clinical Physiology			
	65118	Pest Management Concepts			
	65119	Fishery Technology			
	65182	Grain age, Silk Technology and Economics of Sericulture			
CBCS Elective Paper From March. 2016	65762	Biology of Reproduction	Saturday 26-2-2022		

**M.Sc Zoology (C.B.C.S)**

<b>New Revised From March 2021</b>		<b>Branch –M.Sc Part II-Sem-IV ZOOLOGY(C.B.C.S)</b>			
Paper No	Paper Code	Paper Name	Day and Date	Paper Session -II	
CC-401	81609	Animal Cell Culture	Tuesday 22.2.2022	From 12.30pm to 1.30pm	
<b>CHOOSE ANY ONE OF THE FOLLOWING</b>			Wednesday 23-2-2022		
CBE-402	81610	Toxicology			
	81611	Evolution and Behavior			
<b>CHOOSE ANY ONE OF THE FOLLOWING</b>					
CCS-403	81612	Immunology	Thursday 24-2-2022		
	81614	Physiology of Health			
	81616	Insect Anatomy and Physiology			
	81618	Aquaculture practices			
	83076	Silkworm Biology & Rearing Technology			
<b>CHOOSE ANY ONE OF THE FOLLOWING</b>					
CCS-404	81613	Cell Pathology	Friday 25-2-2022		
	81615	Clinical Physiology			
	81617	Pest Management Concepts			
	81619	Fishery Technology			
	83177	Silkworm Seed, Silk Production Technology and Economics			

### M.Sc Computer Science(C.B.C.S)

Branch –M.Sc Part I-Sem-II Computer Science (C.B.C.S.)				New Revised From March 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
CC-201	79276	Web Technology	Tuesday 8-3-2022	From 12.30pm to 1.30pm
CC202	79277	Advanced Java	Wednesday 9-3-2022	
CC-203	79278	Android Fundamental Development	Thursday 10-3-2022	
*CC-203	*83077	*Android Fundamental Development with Kotlin		
<b>*From March 2021 For Sem-II Fresh students only</b>				
<b>Choose Any One of the Following</b>				
CC-204	79279	Software Project Management	Friday 11-3-2022	
	79280	Data Science Foundations		
	79281	Application Security Analyst		
	79282	Cloud computing		

### M.Sc Computer Science(C.B.C.S)

Branch –M.Sc Part II-Sem-III Computer Science (C.B.C.S.)				New Revised From Oct 2020
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-IV
CC-302	80498	Advanced Web Technology	Monday 28-2-2022	From 4.30pm to 5.30pm
CC-303	80499	PHP	Wednesday 2-3-2022	
<b>Choose Any One of the Following</b>				
CE-304	80500	Software Quality Assurance	Thursday 3-3-2022	
	80501	Advanced Data & Science		
	80502	Network Security Analyst		
	80503	Internet Of Things		
SWM 301	80497	Artificial Intelligence	Friday 4-3-2022	

### M.Sc Organic, Inorganic, Analytical, Physical, Industrial, Applied chemistry

M.Sc Part-I Sem-II Branch- 1) Organic Chemistry 2) Inorganic Chemistry 3) Analytical Chemistry 4) Physical Chemistry 5) Industrial Chemistry 6) Applied Chemistry				New Revised From March 2020
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
CC-201	79244	Inorganic Chemistry – II	Tuesday 8-3-2022	From 10.30am to 11.30am
CC-202	79245	Organic Chemistry – II	Wednesday 9-3-2022	
CC-203	79246	Physical Chemistry – II	Thursday 10-3-2022	
CC-204	79247	Analytical Chemistry – II	Friday 11-3-2022	

**M.Sc Physical Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem III PHYSICAL CHEMISTRY (C.B.C.S)</b>				<b>New Revised From March 2020 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-III
IX	80481	Advanced Quantum Chemistry	Monday 28-2-2022	From 2.30pm to 3.30pm
X	80482	Electrochemistry	Wednesday 2.-3-2022	
XI	80483	Molecular structure	Thursday 3.3-2022	
<b>PAPER NO. XII :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
<b>PAPER NO. XII</b>	80484	Solid State Chemistry	Friday 4.3-2022	
	80485	Advanced Chemical Kinetics		
	80486	Radiation and Photochemistry		

**M.Sc Physical Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem IV PHYSICAL CHEMISTRY (C.B.C.S)</b>				<b>From March 2020 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	79207	Thermodynamics and Molecular Modeling	Monday 28-2-2022	From 10.30am to 11.30am
XIV	79208	Chemical Kinetics	Wednesday 2.-3-2022	
XV	79209	Molecular Structure – II	Thursday 3.3-2022	
<b>PAPER NO. XVI :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
<b>PAPER NO. XVI</b>	79210	Surface Chemistry	Friday 4.3-2022	
	79211	Chemistry of Materials		
	79212	Biophysical chemistry		

**M.Sc Physical Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem IV PHYSICAL CHEMISTRY (C.B.C.S)</b>				<b>New Revised From March 2021 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper session-I
XIII	81571	Thermodynamics and Molecular Modeling	Monday 28-2-2022	From 10.30am to 11.30am
XIV	81572	Chemical Kinetics	Wednesday 2.-3-2022	
XV	81573	Molecular Structure – II	Thursday 3.3-2022	
<b>PAPER NO. XVI :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
<b>PAPER NO. XVI</b>	81574	Surface Chemistry	Friday 4.3-2022	
	81575	Chemistry of Materials		
	81576	Biophysical chemistry		

**M.Sc Analytical Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem III Analytical CHEMISTRY (C.B.C.S.)</b>				<b>New Revised From Oct 2020 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-III
IX	80489	Advanced Analytical Techniques	Monday 28-2-2022	From 2.30pm to 3.30pm
X	80490	Organo Analytical chemistry	Wednesday 2.-3-2022	
XI	80491	Electro analytical Techniques in chemical Analysis	Thursday 3.3-2022	
<b>PAPER NO. XII :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
<b>PAPER NO. XII</b>	80492	Environmental chemical Analysis and control	Friday 4.3-2022	
	80493	Recent advances in Analytical Chemistry		
	80494	Chemical Analysis in Agro Food And Pharmaceutical Industries		

**M.Sc Analytical Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem IV Analytical CHEMISTRY (C.B.C.S.)</b>				<b>New Revised From March 2020 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	79215	Modern Separation method in Analysis	Monday 28-2-2022	From 10.30am to 11.30am
XIV	79216	Organic Industrial Analysis	Wednesday 2.-3-2022	
XV	79217	Advanced Methods in Chemical Analysis	Thursday 3.3-2022	
<b>PAPER NO. XVI :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XVI	79218	Industrial Analytical Chemistry	Friday 4.3-2022	
	79219	Quality Assurance and Accreditation		

**M.Sc Analytical Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem IV Analytical CHEMISTRY (C.B.C.S.)</b>				<b>New Revised From March 2021 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	81580	Modern Separation method in Analysis	Monday 28-2-2022	From 10.30am to 11.30am
XIV	81581	Organic Industrial Analysis	Wednesday 2.-3-2022	
XV	81582	Advanced Methods in Chemical Analysis	Thursday 3.3-2022	
<b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XVI	81583	Applied Analytical Chemistry	Friday 4.3-2022	
	81584	Quality Assurance and Accreditation		
	81585	Techniques in Forensic Science and Microbiological Analysis		

**M.Sc Inorganic Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem III Inorganic CHEMISTRY (C.B.C.S.)</b>				<b>New Revised From Oct 2020Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-III
IX	80460	\$ Inorganic Chemical Spectroscopy	Monday 28-2-2022	From 2.30pm to 3.30pm
X	80461	\$ Co-Ordination Chemistry	Wednesday 2.-3-2022	
XI	80462	\$ Nuclear Chemistry	Thursday 3.3-2022	
<b>PAPER NO:-XII CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XII	80463	\$ Organometallic and Bioinorganic Chemistry	Friday 4.3-2022	
	80464	\$ Selected Topics in Inorganic chemistry		

**M.Sc Inorganic Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem IV Inorganic CHEMISTRY (C.B.C.S.)</b>				<b>New Revised From March 2020Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	79200	Instrumental Techniques	Monday 28-2-2022	From 10.30am to 11.30am
XIV	79201	Co-Ordination Chemistry	Wednesday 2.-3-2022	
XV	79202	Chemistry of Inorganic Materials	Thursday 3.3-2022	
<b>PAPER NO:XVI CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XVI	79203	Energy and Environmental Chemistry	Friday 4.3-2022	
	79204	Radiation Chemistry		

**M.Sc Inorganic Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem IV Inorganic CHEMISTRY (C.B.C.S.)</b>				<b>New Revised From March 2021Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	81554	Instrumental Techniques	Monday 28-2-2022	From 10.30am to 11.30am
XIV	81555	Co-Ordination Chemistry	Wednesday 2.-3-2022	
XV	81556	Chemistry of Inorganic Materials	Thursday 3.3-2022	
<b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XVI	81557	Energy and Environmental Chemistry	Friday 4.3-2022	
	81558	Radiation Chemistry		

**M.Sc Organic Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem III Organic CHEMISTRY (C.B.C.S.)</b>				<b>New Revised from Oct 2020 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-III
IX	80474	Organic Reaction Mechanism	Monday 28-2-2022	From 2.30pm to 3.30pm
X	80475	Advanced Spectroscopic Methods	Wednesday 2.-3-2022	
XI	80476	Advanced Synthetic Method	Thursday 3.3-2022	
<b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XII	80477	\$ Drugs and Heterocycles	Friday 4.3-2022	
	80478	\$ Polymer chemistry		

**M.Sc Organic Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem IV Organic CHEMISTRY (C.B.C.S.)</b>				<b>New Revised From March 2020</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper session-I
XIII	74454	Theoretical Organic Chemistry	Monday 28-2-2022	From 10.30am to 11.30am
XIV	74455	Stereochemistry	Wednesday 2.-3-2022	
XV	74456	Chemistry of Natural Products	Thursday 3.3-2022	
<b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XVI	74457	Organic Industrial Chemistry	Friday 4.3-2022	
	74458	Bio-organic Chemistry		

**M.Sc Organic Chemistry (C.B.C.S)**

<b>M.Sc Part II :- Sem IV Organic CHEMISTRY (C.B.C.S.)</b>				<b>New Revised From March 2021</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	81564	Theoretical Organic Chemistry	Monday 28-2-2022	From 10.30am to 11.30am
XIV	81565	Stereochemistry	Wednesday 2.-3-2022	
XV	81566	Chemistry of Natural Products	Thursday 3.3-2022	
<b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XVI	81567	Applied Organic Chemistry	Friday 4.3-2022	
	81568	Bio-organic Chemistry		

### M.Sc Applied Chemistry (C.B.C.S)

<b>M.Sc Part II :- Sem III Applied CHEMISTRY (C.B.C.S.)</b>				New Revised From Oct 2020Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-III
IX	80368	Applied Inorganic Chemistry-I	Monday 28-2-2022	From 2.30pm to 3.30pm
X	80369	Applied Organic chemistry-I	Wednesday 2.-3-2022	
XI	80370	Applied Physical Chemistry-I	Thursday 3.3-2022	
<b>Paper No XII CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XII	80371	Advanced Organic chemistry-I	Friday 4.3-2022	
	80372	Applied Analytical Chemistry-I		
	80373	Bioorganic Chemistry-I		

### M.Sc Applied Chemistry (C.B.C.S)

<b>M.Sc Part II :- Sem IV Applied CHEMISTRY (C.B.C.S.)</b>				Revised From March 2020
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	74549	Applied Inorganic Chemistry	Monday 28-2-2022	From 10.30am to 11.30am
XIV	74550	Applied Organic Chemistry	Wednesday 2.-3-2022	
XV	74551	Advance Organic Chemistry	Thursday 3.3-2022	
<b>Paper No XVI CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XVI	74552	Inorganic Chemical Industries	Friday 4.3-2022	
	74553	Pollution Monitoring Control		
	74554	Applied Analytical Chemistry-II		

### M.Sc Applied Chemistry (C.B.C.S)

<b>M.Sc Part II :- Sem IV Applied CHEMISTRY (C.B.C.S.)</b>				New Revised From March 2021
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	80377	Applied Inorganic Chemistry -II	Monday 28-2-2022	From 10.30am to 11.30am
XIV	80378	Applied Organic Chemistry-II	Wednesday 2.-3-2022	
XV	80379	Advance Organic Chemistry-II	Thursday 3.3-2022	
<b>Paper No CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>				
XVI	80380	Inorganic Chemical Industries	Friday 4.3-2022	
	80381	Pollution Monitoring Control		
	80382	Applied Analytical Chemistry-II		



### M.Sc. Botany (C.B.C.S)

M.Sc Part I :- Sem.-II Botany				Revised From Oct 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
CC-201	79269	Angiosperm systematic	Monday 28-2-2022	From 12.30pm to 1.30pm
CC-202	79270	Plant Pathology	Wednesday 2.-3-2022	
CC-203	79271	Plant Structure Development And Reproduction	Thursday 3.3-2022	
CC-204	79272	Cell and Molecular Biology	Friday 4.3-2022	

### M.Sc. Botany (C.B.C.S)

M.Sc Part II., :- Sem – III BOTANY				New Revised from Oct 2020 exam	
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-IV	
CCS-301	80536	Cytogenetic & Crop Improvement	Tuesday 22.2-2022	From 4.30pm to 5.30pm	
DSE-304	80551	Biotechnology and Genetic Engineering	Wednesday 23.-2-2022		
<b>CHOOSE ANY ONE OF THE FOLLOWING</b>					
CCS-302	80537	Adv.Plant Physiology & Plant Biochemistry	Thursday 24-2-2022		
	80538	Taxonomy of Fungi			
	80539	Cytogenetic			
	80540	Environment & Its Aspects			
	80541	The evolution and Classification of Angiosperm			
	80542	General Marine Botany			
	80543	Plant Tissue Culture			
<b>CHOOSE ANY ONE OF THE FOLLOWING</b>					
CCS-303	80544	Plant Growth & Development	Friday 25-2-2022		
	80545	Integrated Disease Management			
	80546	Plant Breeding			
	80547	Population & Community Ecology			
	80548	Modern Trends in Angiosperm Taxonomy			
	80549	Physiology & Biochemistry of Marine Plants			
	80550	Molecular Biotechnology & Genetic Engineering			

### M.Sc. Botany (C.B.C.S)

M.Sc Part II., :- Sem – IV BOTANY				Last Chance upto Oc2021
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
XIII	63273	Plant Physiology and Metabolism	Tuesday 22.2-2022	From 12.30pm to 1.30pm
XIV	65121	Biodiversity,conservation and utilization	Wednesday 23.-2-2022	
<b>PAPER NO.- XV CHOOSE ANY ONE OF THE FOLLOWING</b>				
XV	63275	Plant Physiology-III	Thursday 24-2-2022	
	63276	Mycology and Plant Pathology-III		
	63277	Cytogenetic and Plant Breeding-III		
	63278	Energy, Ecology and Environment-III		
	63279	Angiosperm Taxonomy-III		
	63280	Marine Botany-III		
	63281	Plant Biotechnology-III		
	63299	Plant Protection-III		
63300	Plant Diversity –III			
<b>PAPER NO.- XVI CHOOSE ANY ONE OF THE FOLLOWING</b>				
XVI	63282	Plant Physiology-IV	Friday 25-2-2022	
	63283	Mycology and Plant Pathology-IV		
	63284	Cytogenetic and Plant Breeding-IV		
	63285	Energy, Ecology and Environment- IV		
	63286	Angiosperm Taxonomy-IV		
	63287	Marine Botany-IV		
	63288	Plant Biotechnology-IV		
	63301	Plant Protection-IV		
63302	Plant Diversity-IV			
Elective paper	65195	Plant A Biological Capital	Saturday 26-2-2022	

### M.Sc. Botany (C.B.C.S)

M.Sc Part II., :- Sem – IV BOTANY				New Revised From March 2021
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
CC-401	82888	Plant Physiology and Metabolism	Tuesday 22.2-2022	From 12.30pm to 1.30pm
DSE-404	82889	Biodiversity,conservation and utilization	Wednesday 23.-2-2022	
<b>CHOOSE ANY ONE OF THE FOLLOWING</b>				
CCS- 402	82893	Stress Physiology of Plants	Thursday 24-2-2022	
	82894	Industrial Mycology		
	82895	Molecular Genetics		
	82896	Experimental Ecology and Energy studies		
	82897	Angiosperm Taxonomy Floristics & Biostematics		
	82898	Marine Ecology		
	82899	Application and Prospects of Plant Tissue culture		
<b>CHOOSE ANY ONE OF THE FOLLOWING</b>				
CCS-403	82900	Applied Plant Physiology	Friday 25-2-2022	
	82901	Integrated Disease Management		
	82902	Special Approaches in Genetic Improvement of Crop Plants		
	82903	Environmental issues assessment and Restoration		
	82904	Phylogeny & floral Biology of Angiosperm		
	82905	Application, Regulation and Patenting Biotechnology		
83011	Applied Marine Botany			

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### M.Sc. Electronics (C.B.C.S)

M.Sc Part I :- Sem.-II Electronics				Revised From Oct 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session -II
CC-201	79255	Digital Communication	Friday 11.3.2022	From 12.30pm to 1.30pm
CC-202	79256	Advanced Microwave Technology	Saturday 12.3.2022	
CC-203	79257	Advanced Power Electronics	Monday 14.3-2022	
CC-204	79258	Optoelectronics	Tuesday 15.3.2022	

### M.Sc. Electronics (C.B.C.S)

M.Sc Part I :- Sem.-III Electronics				New Revised From Oct 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-IV
CC-301	80507	Control Theory	Tuesday 22.2.2022	From 4.30pm to 5.30pm
CCS-302	80508	Computer Network	Wednesday 23.2.2022	
CCS-303	80509	Microcontroller System Design ARM Architecture	Thursday 24.2-2022	
<b>CHOOSE ANY ONE OF PAPER FROM DSE-304</b>				
DSE-304	80510	Industrial Automation	Friday 25.2.2022	
	80511	Biomedical Instrumentation		
	80512	MATLAB Programming for Numerical Computation		
	80513	Hardware-Software Co-design		
	80514	Satellite Communication		
	80515	Soft Computing		
	80516	VHDL Programming		

### M.Sc. Electronics ( C.B.C.S. )

M.sc Part II Sem-IV -ELECTRONICS ( C.B.C.S.) From April-2015					
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II	
XIII	64906	Digital Signal Processing	Tuesday 22.2.2022	From 12.30pm to 1.30pm	
XIV	64907	Analog and Digital Circuit Design	Wednesday 23.2.2022		
XV	<b>PAPER NO.- XV - CHOOSE ANY TWO OF THE FOLLOWING</b>				
	64909	ARM Programming and Embedded Communication	Thursday 24.2-2022		
	64910	Advanced Microcontroller and RTOS	Friday 25.2.2022		
	64911	Cellular Mobile Communications	Saturday 26-2-2022		
	64912	Electronic Neural Networks	Monday 28-2-2022		
	64913	Advanced Drives	Wednesday 2-3.2022		
	64914	Antennas	Thursday 3-3-2022		
64915	FPGA Based Systems	Friday 4-3-2022			

### M.Sc. Electronics ( C.B.C.S. )

M.sc Part II Sem-IV -ELECTRONICS ( C.B.C.S.) New Revised From March 2021				
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
CC-401	81779	Digital Signal Processing	Tuesday 22.2.2022	From 12.30pm to 1.30pm
CCS-402	81780	Analog and Digital Circuit Design	Wednesday 23.2.2022	
CCS-403	81781	Real Time Embedded System	Thursday 24.2-2022	
DSE-404	<b>- CHOOSE ANY One OF THE FOLLOWING</b>		Friday 25.2.2022	
	81782	Advanced Drives		
	81783	Artificial Intelligence & Machine Learning		
	81784	IOT & Data Analytics		
	81785	ARM Programming and Embedded Communication Protocols		
	81786	FPGA Based Systems		
	81787	Antennas		
81788	Mechnatronics			
	81790	Cellular Mobile communication		

### M.Sc Industrial Chemistry (C.B.C.S.)

M.Sc Part-II Sem III INDUSTRIAL CHEMISTRY ( C.B.C.S.)				
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-III
IND-3.1	80387	Organic Chemical Industries	Monday 28-2-2022	From 2.30pm to 3.30pm
IND-3.2	80388	Inorganic Chemical Industries	Wednesday 2.-3-2022	
IND-3.3	80389	Methods of Analysis in Industries	Thursday 3.3-2022	
IND-1TO 3	<b>CHOOSE ANY One OF THE FOLLOWING</b>		Friday 4-3-2022	
	80390	General Chemical Technology		
	80391	Advanced Analytical Techniques in Industry		
	80392	Chemical Analysis in Agro, Food and Pharmaceutical Industries		

### M.Sc Industrial Chemistry (C.B.C.S.)

M.Sc Part-II Sem IV INDUSTRIAL CHEMISTRY ( C.B.C.S.)				Last Chance upto Oct 2021
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	74533	Drug and Pharmaceuticals	Monday 28-2-2022	From 10.30am To 11.30am
XIV	74534	Inorganic Chemical Industries	Wednesday 2.-3-2022	
XV	74535	Selected Topics in Industrial Chemistry	Thursday 3.3-2022	
XVI	<b>CHOOSE ANY One OF THE FOLLOWING</b>		Friday 4-3-2022	
	74536	Environmental Chemistry		
	74537	Pharmaceutical Chemistry		
	74538	Chemistry of Industrially Important Materials		

### M.Sc Industrial Chemistry (C.B.C.S.)

M.Sc Part-II Sem IV INDUSTRIAL CHEMISTRY ( C.B.C.S.)				New Revised from March 2021
Paper No	Paper Code	Paper Name	Day and Date	Paper session-I
XIII	80395	Drug and Pharmaceuticals	Monday 28-2-2022	From 10.30am To 11.30am
XIV	80396	Inorganic Chemical Industries	Wednesday 2.-3-2022	
XV	80397	Selected Topics in Industrial Chemistry	Thursday 3.3-2022	
XVI	<b>CHOOSE ANY One OF THE FOLLOWING</b>			
	80398	Environmental Chemistry	Friday 4-3-2022	
	80399	Pharmaceutical Chemistry		
80400	Chemistry of Industrially Important Materials			

### M.Sc. Horizontal Mobility

M.Sc Part-I Sem II - Biochemistry,Biotechnology,Environmental- Biotech,Microbiology,Pharmaceutical Microbiology				New Revised From March 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
CC-201	79262	Enzymology	Tuesday 8-3-2022	From 10.30am To 11.30am
CC-202	79263	Molecular Biology	Wednesday 9-3-2022	
CC-203	79264	Bioenergetics	Thursday 10-3-2022	
CC-204	79265	Tools and Techniques in Bioscience	Friday 11-3-2022	

### M.Sc. Biochemistry

M.Sc Part-II Sem-III - BIOCHEMISTRY				New Revised From Oct 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-III
CC-301	80403	Genetic Engineering	Monday 28-2-2022	From 2.30pm to 3.30pm
CCS-302	80404	Biomembrances & Cytoskeleton	Wednesday 2.-3-2022	
DSE-304	80408	Immunology	Thursday 3.3-2022	
<b>Choose Any One Of the Following</b>				
CCS-303- A	80405	Fermentation Technology	Friday 4-3-2022	
CCS-303- B	80406	Clinical Biochemistry		
CCS-303- C	80407	Biochemical and Environmental Toxicology		

### M.Sc. BIOCHEMISTRY [ C.B.C.S.]

M.sc Part II Sem- IV- BIOCHEMISTRY ( C.B.C.S.)				Last Chance upto Oct-2021	
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I	
XIII	71009	Research Methodology, Entrepreneurship Development & Tissue Culture <small>(New From April 2018)</small>	Monday 28-2-2022	From 10.30am to 11.30am	
	65085	Neurochemistry (Old)			
XIV	71118	Neurochemistry and Carcinogenesis <small>(New From April 2018)</small>	Wednesday 2.-3-2022		
	65086	Carcinogenesis & Cell Signaling(Old)			
XV	63251- Microbiology	*Bioinformatics	Thursday 3.3-2022		
	65088- Biochemistry				
<b>Paper No. XVI - Choose Any One of the Following</b>					
XVI	65087	Medical and Environmental Biochemistry	Friday 4-3-2022		
	65089- Biochemistry 65131Environmental Biotechnology	\$ Fermentation Technology – II			
	65090	Clinical Biochemistry – II			
	65091	Biochemical and Environmental Toxicology – II			

### M.Sc. BIOCHEMISTRY [ C.B.C.S.]

M.sc Part II Sem- IV- BIOCHEMISTRY ( C.B.C.S.)				New Revised From March 2021
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
CC-401	80413	Research Methodology, Entrepreneurship Development & Communication skill	Monday 28-2-2022	From 10.30am to 11.30am
CCS-402	80414	Neurochemistry and Carcinogenesis	Wednesday 2.-3-2022	
CCS-403	80415	Bioinformatics	Thursday 3.3-2022	
<b>Choose Any One of the Following</b>				
DSE-404A	80416	Fermentation Technology – II	Friday 4-3-2022	
DSE-404B	80417	Clinical Biochemistry – II		
DSE-404C	80418	Biochemical and Environmental Toxicology–II		

### M.Sc. BIOTECHNOLOGY

M.sc Part-II Sem-III BIOTECHNOLOGY				
New Revised From Oct 2020 exam				
Paper No	Paper Code	Paper Name	Day and Date	Paper session-III
CC-301	80453	Genetic Engineering	Monday 28-2-2022	From 2.30pm to 3.30pm
DSE-304	80456	Immunology	Wednesday 2.-3-2022	
CC-303	80455	Fermentation Technology-I	Thursday 3.3-2022	
CCS-302	80454	Advances in Plant Biotechnology	Friday 4-3-2022	

### M.Sc. BIOTECHNOLOGY

#### M.sc Part II Sem- IV- BIOTECHNOLOGY

Last Chance upto Oct-2021

Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	65769	Animal Tissue Culture (Revised)	Monday 28-2-2022	From 10.30am to 11.30am
XIV	65080	** Advances in Genomics and Proteomics	Wednesday 2.-3-2022	
XV	65081	Advances in Plant Biotechnology	Saturday 5-3-2022	
<b>Choose Any One of the Following</b>				
XVI	65082	Industrial Organization and Management	Monday 7-3-2022	
New( From	65773	Nanobiotechnology		
XIV	65088- Biochemistry 63251- Microbiology 65197- Biotechnology 69590-	* Bioinformatics	Thursday 3.3-2022	
	65089- Biochemistry 65131 Envirome ntal Biotechnology	\$ Fermentation Technology II	Friday 4-3-2022	

### M.Sc. BIOTECHNOLOGY

#### M.sc Part II Sem- IV- BIOTECHNOLOGY

New Revised From  
March 2021

Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
CC401	82847	Animal Tissue culture	Monday 28-2-2022	From 10.30am to 11.30am
CCS403	82842	Bioinformatics	Thursday 3.3-2022	
<b>Choose Any One of the Following</b>				
CCS402 A	82848	Advances in Genomics and Proteomics	Wednesday 2.-3-2022	
CCS402B	82849	Microbial Fermentation Technology	Saturday 5-3-2022	
<b>Choose Any One of the Following</b>				
DSE404A	82851	Nanobiotechnology	Monday 7-3-2022	
DSE404B	82852	Fermentation Technology-II	Friday 4-3-2022	

### M.Sc. ENV. BIOTECHNOLOGY

#### M.Sc Part-II Sem-III - ENV. BIOTECHNOLOGY

**New Revised From Oct 2020 Exam**

Paper No	Paper Code	Paper Name	Day and Date	Paper Session -III
CC-301	80436	Genetic Engineering	Monday 28-2-2022	From 2.30pm to 3.30pm
DSE-304	80440	Immunology	Wednesday 2.-3-2022	
CCS-302	80437	Basics of Ecology, Ecotoxicology and Ecochemistry	Thursday 3.3-2022	
<b>Choose Any One Of the Following</b>				
CCS-303 -A	80438	Fermentation Technology-I	Friday 4-3-2022	
CCS-303-B	80439	Biochemical and environmental Toxicology -I		

**M.Sc. ENV. BIOTECHNOLOGY [ C.B.C.S.]**

M.Sc Part-II Sem-IV- ENV. BIOTECHNOLOGY ( C.B.C.S. )				
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
XIII	65128	Environmental Pollution and Control	Monday 28-2-2022	From 10.30am  to 11.30am
XIV	65129	Environmental Biotechnology	Monday 7-3-2022	
XV	65130	Biodiversity, IPR Biosafety & Bioethics	Saturday 5-3-2022	
XVI	65131- Environmenta Biotechnology 65089-Biochemistry	\$ Fermentation Technology – II	Friday 4-3-2022	
	65080	** Advances in Genomics & Proteomics	Wednesday 2.-3-2022	

**M.Sc. ENV. BIOTECHNOLOGY [ C.B.C.S.]**

M.Sc Part-II Sem-IV- ENV. BIOTECHNOLOGY ( C.B.C.S. )					
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I	
CC-401	80444	Environmental Monitoring and Risk Assessment	Monday 28-2-2022	From 10.30am  to 11.30am	
CCS-402	80445	Environmental Biotechnology	Monday 7-3-2022		
CCS-403	80446	Bioinformatics	Thursday 3.3-2022		
<b>Choose Any One Of the Following</b>					
DSE-404A	80447	Biodiversity, IPR Biosafety & Bioethics	Saturday 5-3-2022		
DSE-404B	80448	Biochemical and Environmental Toxicology			

**M.Sc. Microbiology [ C.B.C.S.]**

M.Sc Part-II Sem-III- Microbiology ( C.B.C.S. )				New Revised From Oct 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-III
CC-301	80573	Genetic Engineering	Monday 28-2-2022	From 2.30pm to 3.30pm
CCS-302	80574	Microbial Diversity and Extremophils	Friday 4-3-2022	
CCS-303	80575	Fermentation Technology	Thursday 3.3-2022	
DSE-304	80577	Immunology	Wednesday 2.-3-2022	



### M.Sc. MICROBIOLOGY (C.B.C.S.)(Old)

Branch-M.sc part-II Sem-IV MICROBIOLOGY ( C.B.C.S. )				From April-2015
Paper No	Paper Code	Paper Name	Day and Date	Paper session-I
XIII	63249	Food and Dairy Microbiology	Monday 28-2-2022	From 10.30am to 11.30am
XIV	65088-Biochemistry 63251-Microbiology 65197- Biotechnology 69590-	*Bioinformatics	Thursday 3.3-2022	
XV	63250	Microbial Fermentation Technology	Wednesday 2.-3-2022	
XVI	63252- Microbiology 69592-	# Medical Microbiology	Friday 4-3-2022	

### M.Sc. MICROBIOLOGY (C.B.C.S.)

M.sc part-II Sem-IV MICROBIOLOGY ( C.B.C.S. )				New Revised From March 2021
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
CC-401	82840	Food and Dairy Microbiology	Monday 28-2-2022	From 10.30am to 11.30am
CCS-402	82841	Microbial Fermentation Technology	Wednesday 2.-3-2022	
CCS-403	82842	Bioinformatics	Thursday 3.3-2022	
DSE-404	82843	Medical Microbiology	Friday 4-3-2022	

### M.Sc. Pharmaceutical Microbiology [ C.B.C.S.]

M.Sc Part-II Sem-III- Pharmaceutical Microbiology ( C.B.C.S. )				New Revised From Oct 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session -III
CC-301	80422	Genetic Engineering	Monday 28-2-2022	From 2.30pm to 3.30pm
CCS-302	80423	Microbial Diversity and Extremophils	Friday 4-3-2022	
CCS-303	80424	Pharmaceutical Microbiology	Thursday 3.3-2022	
DSE-304	80425	Immunology	Wednesday 2.-3-2022	

**M.Sc. Pharmaceutical Microbiology [ C.B.C.S.]**

<b>M.Sc Part-II Sem-IV- Pharmaceutical Microbiology ( C.B.C.S. )</b>				
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
	69589	Fermentation Technology and Process Designing	Monday 28-2-2022	From 10.30am to 11.30am
	69591	Quality Management and IPR	Wednesday 2.-3-2022	
	69590- 65088Biochemistry 63251Microbiology 65197Biotechnology	*Bioinformatics	Thursday 3.3-2022	
	69592- 63252-Microbiology	Medical Microbiology	Friday 4-3-2022	

**M.Sc. Pharmaceutical Microbiology [ C.B.C.S.]**

<b>M.Sc Part-II Sem-IV- Pharmaceutical Microbiology ( C.B.C.S. )</b>				<b>New Revised From Marc 2021 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session -I
CC401	80429	Quality Management and IPR	Wednesday 2.-3-2022	From 10.30am to 11.30am
CCS402	80430	Fermentation Technology and Process Designing	Monday 28-2-2022	
CCS403	80431	Bioinformatics	Thursday 3.3-2022	
DSE404	80432	Medical Microbiology	Friday 4-3-2022	

**M.Sc. Agrochemical and Pest Management [ C.B.C.S.]**

<b>M.Sc Part-I Sem-II-Agrochemical and Pest Management ( C.B.C.S. )</b>				<b>New Revised From March 2020 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
CC-201	79233	Chemistry of Pesticides And Their Formulation-II	Monday 28-2-2022	From 12.30pm to 1.30pm
CC-202	79234	Analytical Techniques For Agrochemicals	Wednesday 2.-3-2022	
CC-203	79235	Economic Entomology	Thursday 3.3-2022	
CC-204	79236	Agronomy, Seed Technology, Pathology, Weed Science Biostatistics	Friday 4-3-2022	

**M.Sc. Agro Chemical & Pest Management [ C.B.C.S. ](New)**

New Revised From Oct 2020 Exam		Branch M.Sc Part-II Sem-III - AGROCHEMICAL & PEST MANAGEMNT ( C.B.C.S.)		
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-IV
IX	80567	Pesticide Residues And Toxicology	Tuesday 22-2-2022	From 4.30pm to 5.30pm
X	80568	Pest of Crop Plants And Their Control-I	Wednesday 23-2-2022	
XI	80569	Analysis of Agrochemical	Thursday 24-2-2022	
XII	80570	Diseases of Vegetables Fruit tress,Plantation,Forest Ornamental Plants	Friday 25-2-2022	

**M.Sc. Agro Chemical & Pest Management [ C.B.C.S. ](New)**

New Revised From March 2020 Exam		M.Sc Part-II Sem-IV - AGROCHEMICAL & PEST MANAGEMNT ( C.B.C.S.)		
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
XIII	74519	Agro-based Marketing Management	Tuesday 22-2-2022	From 12.30pm to 1.30pm
XIV	74520	Pests Of Crop Plants And Their Control- II	Wednesday 23-2-2022	
XV	74521	Manufacture Of Agrochemicals	Thursday 24-2-2022	
XVI	74522	Agricultural Bio-Technology and Integrated Disease Management	Friday 25-2-2022	

**M.Sc. Agro Chemical & Pest Management [ C.B.C.S. ](New)**

New Revised From March 2021Exam		M.Sc Part-II Sem-IV - AGROCHEMICAL & PEST MANAGEMNT ( C.B.C.S.)		
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
XIII	81640	Agro-based Marketing Management	Tuesday 22-2-2022	From 12.30pm to 1.30pm
XIV	81641	Pests Of Crop Plants And Their Control- II	Wednesday 23-2-2022	
XV	81642	Manufacture Of Agrochemicals	Thursday 24-2-2022	
XVI	81643	Agricultural Bio-Technology and Integrated Disease Management	Friday 25-2-2022	

**M.Sc. General Microbiology [C.B.C.S.]**

M.Sc Part-II Sem-II General MICROBIOLOGY				From March 2020 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session -I
CC-201	74563	Techniques in Microbiology	Tuesday 8-3-2022	From 10.30am To 11.30am
CC-202	74564	Microbial Physiology Biochemistry and Metabolism	Wednesday 9-3-2022	
CC-203	74565	Medical Microbiology	Thursday 10-3-2022	
CC-204	74566	Microbial Ecology	Friday 11-3-2022	

**M.Sc. General MICROBIOLOGY [C.B.C.S.-]**

New Revised From Oct 2020 Exam		M.Sc Part-II Sem-III General MICROBIOLOGY -		
Paper No	Paper Code	Paper Name	Day and Date	Paper Session -III
MIC-301	80530	Biostatistics Bioinformatics & Scientific Writings	Monday 28-2-2022	From 2.30pm to 3.30pm
MIC-302	80531	Enzymology and Enzyme technology	Wednesday 2.-3-2022	
MIC-303	80532	Fermentation Technology	Thursday 3.3-2022	
MIC-304	80533	Quality Control Microbiology	Friday 4-3-2022	

**M.Sc. General Microbiology [C.B.C.S.]**

M.Sc Part-II Sem-IV General MICROBIOLOGY				From March 2021 Exam
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-I
MIC-401	81634	Food and Dairy Microbiology	Monday 28-2-2022	From 10.30am To 11.30am
MIC-402	81635	Industrial Waste Management	Wednesday 2.-3-2022	
MIC-403	81636	Recombinat DNA Technology	Thursday 3.3-2022	
MIC-404	81637	Quality Control Microbiology	Friday 4-3-2022	

**M.Sc. Geology[C.B.C.S.]**

<b>M.Sc. Part-I Sem-II Geology</b>				<b>New Revised From March 2020 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
CC-201	79238	Structural Geology and Geotectonics	Monday 28-2-2022	From 12.30pm to 1.30pm
CC-202	79239	Stratigraphy and Palaeontology	Wednesday 2.-3-2022	
CC-203	79240	Economic Geology	Thursday 3.3-2022	
CC-204	79241	Remote sensing and Geomorphology	Friday 4-3-2022	

**M.Sc. Geology[C.B.C.S.]**

<b>M.Sc. Part-II Sem-III Geology</b>				<b>New Revised From Oct- 2020 Exam</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-IV
CC-301	80520	Hydrogeology	Tuesday 22-2-2022	From 4.30pm to 5.30pm
CCS-302	80521	Geophysics and Exploration Methods	Wednesday 23-2-2022	
CCS-303	80522	Geochemistry	Thursday 24-2-2022	
DSE-304	<b>Choose Any One of the Following</b>		Friday 25-2-2022	
	80523	Gemmology & Industrial Mineralogy		
	80524	Mining Geology		
	80525	Marine Geology		
	80526	Geoinformatics		

**M.Sc. Geology[C.B.C.S.]**

<b>M.Sc. Part-II Sem-IV Geology</b>				<b>Last Chance upto Oct-2021</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
XIII	63210	Engineering Geology and Geotechniques	Tuesday 22-2-2022	From 12.30pm to 1.30pm
XIV	63211	Natural Resource Management	Wednesday 23-2-2022	
XV	63212	Environmental Geology	Thursday 24-2-2022	

**M.Sc. Geology[C.B.C.S.]**

<b>M.Sc. Part-II Sem-IV Geology</b>				<b>New Revised From March 2021</b>
Paper No	Paper Code	Paper Name	Day and Date	Paper Session-II
XIII	81626	Engineering Geology and Geotechniques	Tuesday 22-2-2022	From 12.30pm to 1.30pm
XIV	81627	Natural Resource Management	Wednesday 23-2-2022	
XV	81628	Environmental Geology	Thursday 24-2-2022	

**Note:- In Case of any Query found in respective Question Paper ,Student shall communicate the same through Principal/Senior supervisor within 07 days from the date of concerned Question paper to, Deputy Registrar Appointment section Room No.205 Exam Building No.1 Shivaji University,Kolhapur-416004**

**Vidyanagar,  
Kolhapur-416004  
Date :- -27-1-2022**

s/d  
**Shri.G.R.Palse  
I/C Director  
Board of Examinations And Evaluation**

