



## SHIVAJI UNIVERSITY, KOLHAPUR.

Circular No 84 Summer Session Theory Exam

Draft Programme of M.Sc Part II (Sem III, IV) C.B.C.S

(Course Code 205,2341) Zoology, Organic, Inorganic, Physical, Analytical, Industrial, and Applied Chemistry, Botany, Horizontal Mobility (Bio-Tech, Bio-Chemistry, Environmental-Biotech, Microbiology, Pharmaceutical, Microbiology), Agrochemical & pest Management, Electronics, Computer Science, , Geology General Microbiology Examination of March/April 2023 to be held in June 2023.

**INSTRUCTION:-** Common instruction as per Circular No SU/Appointment /On Exam/29/dated 01-02-2020 and also available on University Website [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

### 1. The Centers and Places for Examination for written examination will be as under:

| Sr.No | Exam  | College /Dept Code | Places/Exam Centre   |
|-------|---|--------------------|--|
| 1     | M.Sc Zoology, Computer Sci, Organic, Analytical Physical, Inorganic Chemistry Botany, Electronics, Applied Chemistry, Industrial Chemistry, Horizontal Mobility (Bio-Tech, Biochem, Micro ,Env-Biotech), Agro Chemical and Pest Mgt | 264                | Shivaji University Science Teaching Department.<br><b>Campus. KOLHAPUR</b>                       |
| 2     | M. Sc. Analytical Chemistry   | 31                 | Rajaram College, <b>Kolhapur</b>   |
| 3     | M.Sc. Geology   | 260                | Gopal Krishna Gokhale College, <b>Kolhapur</b> Dist-Kolhapur                                     |
| 4     | M.Sc Organic Chemistry  | 01                 | Vivekanand College, <b>Kolhapur</b> Dist-Kolhapur  |
| 5     | M.Sc. Physical Chemistry  | 32                 | Rajarshri Chh. Shahu College <b>Kadamwadi Kolhapur</b> Dist-Kolhapur                             |
| 6     | M.Sc Botany, Analytical Chemistry, Comp Sci   | 30                 | The New college <b>Kolhapur</b>  |
| 7     | M.Sc. Agrochemical & Pest Management, Organic Chemistry General Microbiology  | 48                 | Devachand College, <b>Arjunnagar</b> , Dist-Kolhapur   |
| 8     | M.Sc Analytical Chemistry   | 43                 | Jaysingpur College, JAYSINGPUR, Dist-Kolhapur  |
| 9     | M. Sc. Botany, Organic Chemistry  | 38                 | Dattajirao Kadam Arts, Science & Comers <b>Ichalkaranji</b> Dist -Kolhapur                       |
| 10    | M. Sc. Computer Science, M.Sc Organic Chemistry   | 03                 | Shivraj College of Arts, Commerce & D. S. Kadam Science college <b>Gadhinglaj</b> Dist.Kolhapur. |
| 11    | M.Sc General Microbiology, Analytical Chemistry   | 47                 | Dr.Ghali college Gadhinglaj Dist-Kolhapur  |
| 12    | M.Sc. Computer Science, M.Sc.Physical Chemistry   | 90                 | Karmveer Bhaurao Patil College, Urun -Islampur. Dist- Sangli                                     |
| 13    | M.Sc. Computer Science, , Organic   | 88                 | Smt Kusumtai Rajarambapupatil kanya Mahavidyalya <b>Urun-Islampur</b> . Dist-Sangli              |
| 14    | M.Sc. Computer Science, Zoology, Organic Chem   | 104                | Arts, Commerce & Science College, <b>Palus</b> Dist-sangli                                       |
| 15    | M.Sc Organic Chemistry , Botany, Zoology  | 92                 | Padm Bhushan DR. Vasantrao dada patil Mahavidyalya, <b>Tasgaon</b> Dist-Sangli                   |
| 16    | M.Sc Analytical, Organic Chemistry, General Microbiology  | 73                 | Dr.Patangrao Kadam Mahavidyalya Sangalwadi Dist-Sangli   |
| 17    | M.Sc Comp Sci, Electronics, Organic Chemistry, General Microbiology   | 78                 | Smt Kasturbai Walchand college <b>Sangli</b> , Dist -Sangli                                      |
| 18    | M.SC Organic Chemistry, Electronics, Comp Sci   | 80                 | Willingdon College <b>Sangli</b> , Dist-Sangli   |

| Sr.No | Exam  | College /Dept Code | Places/Exam Centre  |
|-------|---|--------------------|---|
| 19    | M.Sc. Inorganic, Organic, Analytical chemistry,Zoology,General Microbiology                           | 86                 | Balwant College, <b>Vita</b> Dist-Sangli  |
| 20    | M.Sc., Analytical Chemistry   | 436                | Shri Yashwantrao Patil ScienceCollege <b>Solankur</b> , Tal- Radhanagri,Dist-Kolhapur             |
| 21    | M. Sc. Botany   | 101                | Matoshri Bayyabai Shripathrao Kadam Kanya Mahavidyalya, <b>Kadegaon</b> Dist Sangli               |
| 22    | M.Sc Botany, Organic Chemistry, Zoology,Electronics   | 149                | Yashwantrao Chavan Institute of Science <b>Satara</b> , Dist-Satara                               |
| 23    | M.Sc. Analytical Chemistry, Zoology,Organic Chemistry   | 145                | Lal Bahadur Shastri college <b>Satara</b>   |
| 24    | M.Sc. Organic Chemistry   | 164                | Dahiwadi College, <b>Dahiwadi</b> Dist-Satara   |
| 25    | M.Sc., Analytical Chemistry, Microbiology (CBCS-R),General Microbiology,Botany,Comp Sci,Organic Chemi | 158                | Yashwantrao Chavan college ofScience College, <b>Karad</b> Dist-Satara                            |
| 26    | M.Sc.Zoology ,Computer Sci,, Organic Chemistry.   | 156                | Sadguru Gadge Maharaj College <b>Karad</b> Dist-Satara  |
| 27    | M.Sc., Analytical Chemistry   | 159                | Balasaheb Desai College, <b>Patan</b> Dist-Satara   |
| 28    | M.Sc., Organic Chemistry,   | 161                | Kissan Veer Mahavidyalaya, <b>Wai</b> . Dist-Satara   |
| 29    | M.Sc. Analytical Chemistry  | 94                 | RajeRamrao Mahavidyalya <b>Jath</b> DistSangli  |
| 30    | M.Sc. Analytical Chemistry,Zoology  | 50                 | Yashwantrao Chavan WarnaMahavidylaya <b>Warananagar</b> Dist-Kolhapur                             |
| 31    | M.Sc. Analytical Chemistry  | 162                | D.P.Bhosale College <b>Koregaon</b> Dist Satara.  |
| 32    | M.Sc. Analytical Chemistry  | 93                 | Dr.Patangrao Kadam Mahavidyalya <b>Ramanadnagar(Burli)</b> Kirloskarwadi Tal.Palus Dist Sangali.  |
| 33    | M.Sc. Analytical,,Organic Chemistry   | 106                | Deshbhakat Anandrao BalwantraoNaik Arts & Science College <b>Chikkali</b> Tal-shirala Dist-Sangli |
| 34    | M.Sc. Analytical Chemistry  | 103                | Krantisinh Nana Patil Mahavidyalya <b>walva</b> TalWalva Dist-Sangli                              |
| 35    | M.sc Organic chemistry  | 83                 | Shikshan Maharashi Dr.Bapuji Salunkhe Mahavidyalya <b>Miraj</b> DistSangli                        |
| 36    | M.Sc General Microbiology   | 84                 | Miraj Mahavidyalya <b>Miraj</b> DistSangli  |
| 37    | M.Sc Organic Chemistry  | 51                 | Bhogawati Mahavidyalya <b>Kurukali</b> Tal-Karveer Dist-Kolhapur                                  |
| 38    | M.Sc. Analytical Chemistry  | 67                 | M.H.Shinde Mahavidyalya <b>Tisangi</b> Tal-Gaganbawada Dist-Kolhapur                              |
| 39    | M.Sc. Analytical Chemistry, Organic   | 429                | Padmashree Dr.G.G Jadhav Mahavidyalya <b>Ganganbawada</b> Dist-Kolhapur                           |
| 40    | M.Sc Organic Chemistry  | 151                | Mudhoji College <b>Phaltan</b> Dist-Satara  |

| Course Code-2341                       | Branch –M.Sc Part II-Sem-III ZOOLOGY ( C.B.C.S.) |   |                      |                             | New Revised From Oct. 2022 |  |  |
|--|--|---|----------------------|-----------------------------|----------------------------|--|--|
| Paper No                               | Paper Code                                       | Paper Name                                      | Day and Date         | Paper Time                  |                            |  |  |
| CC-301                                 | 85462  | Genetics  | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm |                            |  |  |
| CBE-302                                | <b>CHOOSE ANY ONE OF THE FOLLOWING</b>           |   |                      |                             |                            |  |  |
|  | 85463  | Enzymology                                      | Tuesday 13-06-2023   |                             |                            |  |  |
|  | 89057  | Laboratory Animals in Biomedical Research       |                      |                             |                            |  |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b> |  |   |                      |                             |                            |  |  |
| CCS-303                                | 85464  | Molecular Biology of the Gene                   | Wednesday 14-06-2023 |                             |                            |  |  |
|  | 85465  | Animal Physiology                               |                      |                             |                            |  |  |
|  | 85466  | Basic Entomology                                |                      |                             |                            |  |  |
|  | 85467  | Fisheries Resources Inland and Marine fisheries |                      |                             |                            |  |  |
|  | 85468  | General Sericulture and management of Mulberry  |                      |                             |                            |  |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b> |  |   |                      |                             |                            |  |  |
| CCS-304                                | 85469  | Development Biology                             | Thursday 15-06-2023  |                             |                            |  |  |
|  | 85470  | Applied Physiology                              |                      |                             |                            |  |  |
|  | 85471  | Agricultural Entomology                         |                      |                             |                            |  |  |
|  | 85472  | Fish Pathology & Reproductive Endocrinology     |                      |                             |                            |  |  |
|  | 85473  | Silkworm Biology and Rearing Technology         |                      |                             |                            |  |  |

| Course Code-205                        | 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 Time                  |                            |  |  |
| CC-301                                 | 80554  | Genetics  | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm |                            |  |  |
| CBE-302                                | <b>CHOOSE ANY ONE OF THE FOLLOWING</b>           |   |                      |                             |                            |  |  |
|  | 80555  | Enzymology                                      | Tuesday 13-06-2023   |                             |                            |  |  |
|  | 89966  | Laboratory Animals in Biomedical Research       |                      |                             |                            |  |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b> |  |   |                      |                             |                            |  |  |
| CCS-303                                | 80556  | Molecular Biology of the Gene                   | Wednesday 14-06-2023 |                             |                            |  |  |
|  | 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                             | Thursday 15-06-2023  |                             |                            |  |  |
|  | 80559  | Applied Physiology                              |                      |                             |                            |  |  |
|  | 80561  | Agricultural Entomology                         |                      |                             |                            |  |  |
|  | 80563  | Fish Pathology & Reproductive Endocrinology     |                      |                             |                            |  |  |
|  | 80565  | Silkworm Biology and Rearing Technology         |                      |                             |                            |  |  |

| Branch –M.Sc Part II-Sem-IV ZOOLOGY( C.B.C.S.) |            |   |                      |                              |
|--|------------|---|----------------------|------------------------------|
| New Revised From March 2023                    |            |   |                      | Course Code-2341             |
| Paper No                                       | Paper Code | Paper Name  | Day and Date         | Paper Time                   |
| CC-401   | 86787      | Animal Cell Culture                                     | Monday 12-06-2023    | From 10.30am<br>to<br>1.30pm |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b>         |            |   | Tuesday 13-06-2023   |                              |
| CBE-402  | 86800      | Toxicology  |                      |                              |
|  | 86801      | Evolution and Behavior                                  |                      |                              |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b>         |            |   | Wednesday 14-06-2023 |                              |
| CCS-403  | 86793      | Immunology  |                      |                              |
|  | 86790      | Physiology of Health                                    |                      |                              |
|  | 86791      | Insect Anatomy and Physiology                           |                      |                              |
|  | 86792      | Aquaculture practices                                   |                      |                              |
|  | 86794      | Breeding of silkworm,mulberry& cytogenetics             |                      |                              |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b>         |            |   | Thursday 15-06-2023  |                              |
| CCS-404  | 86795      | Cell Pathology  |                      |                              |
|  | 86796      | Clinical Physiology                                     |                      |                              |
|  | 86797      | Pest Management Concepts                                |                      |                              |
|  | 86798      | Fishery Technology                                      |                      |                              |
|  | 86799      | Silkworm Seed, Silk Production Technology and Economics |                      |                              |
| Branch –M.Sc Part II-Sem-IV ZOOLOGY( C.B.C.S.) |            |   |                      |                              |
| New Revised From March 2021                    |            |   |                      | Course Code-205              |
| Paper No                                       | Paper Code | Paper Name  | Day and Date         | Paper Time                   |
| CC-401   | 81609      | Animal Cell Culture                                     | Monday 12-06-2023    | From 10.30am<br>to<br>1.30pm |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b>         |            |   | Tuesday 13-06-2023   |                              |
| CBE-402  | 81610      | Toxicology  |                      |                              |
|  | 81611      | Evolution and Behavior                                  |                      |                              |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b>         |            |   | Wednesday 14-06-2023 |                              |
| CCS-403  | 81612      | Immunology  |                      |                              |
|  | 81614      | Physiology of Health                                    |                      |                              |
|  | 81616      | Insect Anatomy and Physiology                           |                      |                              |
|  | 81618      | Aquaculture practices                                   |                      |                              |
|  | 83076      | Breeding of silkworm,mulberry& cytogenetics             |                      |                              |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b>         |            |   | Thursday 15-06-2023  |                              |
| CCS-404  | 81613      | Cell Pathology  |                      |                              |
|  | 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 II-Sem-III Computer Science ( C.B.C.S.) |            |                            |                      | New Revised From Oct 2022   |
|---|------------|----------------------------|----------------------|-----------------------------|
| Course code-2341  |            |                            |                      |                             |
| Paper No  | Paper Code | Paper Name                 | Day and Date         | Paper Time                  |
| CC-302  | 85334      | Advanced Web Technology    | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm |
| CC-303  | 85335      | PHP                        | Tuesday 13-06-2023   |                             |
| <b>Choose Any One of the Following</b>                    |            |                            |                      |                             |
| CE-304  | 85336      | Software Quality Assurance | Wednesday 14-06-2023 |                             |
|   | 85337      | Advanced Data & Science    |                      |                             |
|   | 85338      | Network Security Analyst   |                      |                             |
|   | 85339      | Internet Of Things         |                      |                             |
| SWM301  | 85333      | Artificial Intelligence    | Thursday 15-06-2023  |                             |

### 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   |
|---|------------|----------------------------|----------------------|-----------------------------|
| Course code-205   |            |                            |                      |                             |
| Paper No  | Paper Code | Paper Name                 | Day and Date         | Paper Time                  |
| CC-302  | 80498      | Advanced Web Technology    | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm |
| CC-303  | 80499      | PHP                        | Tuesday 13-06-2023   |                             |
| <b>Choose Any One of the Following</b>                    |            |                            |                      |                             |
| CE-304  | 80500      | Software Quality Assurance | Wednesday 14-06-2023 |                             |
|   | 80501      | Advanced Data & Science    |                      |                             |
|   | 80502      | Network Security Analyst   |                      |                             |
|   | 80503      | Internet Of Things         |                      |                             |
| SWM301  | 80497      | Artificial Intelligence    | Thursday 15-06-2023  |                             |

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

| M.Sc Part II :- Sem III PHYSICAL CHEMISTRY ( C.B.C.S.)        |            |                              |                      | New Revised From March 2020 Exam |
|---|------------|------------------------------|----------------------|----------------------------------|
| Course code-205   |            |                              |                      |                                  |
| Paper No  | Paper Code | Paper Name                   | Day and Date         | Paper Time                       |
| IX  | 80481      | Advanced Quantum Chemistry   | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm      |
| X   | 80482      | Electrochemistry             | Tuesday 13-06-2023   |                                  |
| XI  | 80483      | Molecular structure          | Wednesday 14-06-2023 |                                  |
| <b>PAPER NO. XII :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b> |            |                              |                      |                                  |
| PAPER NO.XII  | 80484      | Solid State Chemistry        | Thursday 15-06-2023  |                                  |
|   | 80485      | Advanced Chemical Kinetics   |                      |                                  |
|   | 80486      | Radiation and Photochemistry |                      |                                  |

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

| Course code-2353 M.Sc Part II :- Sem IV PHYSICAL CHEMISTRY (C.B.C.S.) |            |                                       |                      | New Revised From March 2023 Exam |
|---|------------|---------------------------------------|----------------------|----------------------------------|
| Paper No  | Paper Code | Paper Name                            | Day and Date         | Paper Time                       |
| XIII  | 86779      | Thermodynamics and Molecular Modeling | Monday 12-06-2023    | From 10.30am<br>to<br>1.30pm     |
| XIV   | 86780      | Chemical Kinetics                     | Tuesday 13-06-2023   |                                  |
| XV  | 86781      | Molecular Structure – II              | Wednesday 14-06-2023 |                                  |
| <b>PAPER NO. XVI :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>         |            |                                       |                      |                                  |
| PAPER NO.XVI  | 86784      | Surface Chemistry                     | Thursday 15-06-2023  |                                  |
|   | 86785      | Chemistry of Materials                |                      |                                  |
|   | 86786      | Biophysical chemistry                 |                      |                                  |

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

| <b>Course code-205 M.Sc Part II :- Sem IV PHYSICAL CHEMISTRY (C.B.C.S.)</b> |            |                                       |                      | <b>New Revised From<br/>March 2021 Exam</b> |
|---|------------|---------------------------------------|----------------------|---|
| Paper No  | Paper Code | Paper Name                            | Day and Date         | Paper Time                                  |
| XIII  | 81571      | Thermodynamics and Molecular Modeling | Monday 12-06-2023    | From 10.30am<br>to<br>1.30pm                |
| XIV   | 81572      | Chemical Kinetics                     | Tuesday 13-06-2023   |   |
| XV  | 81573      | Molecular Structure – II              | Wednesday 14-06-2023 |   |
| <b>PAPER NO. XVI :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>               |            |                                       |                      |   |
| <b>PAPER NO.XVI</b>   | 81574      | Surface Chemistry                     | Thursday 15-06-2023  |   |
|   | 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<br/>Oct 2022 Exam</b> |
|--|------------|--|----------------------|---|
| <b>Course code-2341</b>  |            |  |                      |   |
| Paper No   | Paper Code | Paper Name   | Day and Date         | Paper Time                                |
| IX   | 85284      | Advanced Analytical Techniques                               | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm               |
| X  | 85285      | Organo Analytical chemistry                                  | Tuesday 13-06-2023   |   |
| XI   | 85286      | Electro analytical Techniques in chemical Analysis           | Wednesday 14-06-2023 |   |
| <b>PAPER NO. XII :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>  |            |  |                      |   |
| <b>PAPER NO. XII</b>   | 85288      | Environmental chemical Analysis and control                  | Thursday 15-06-2023  |   |
|  | 85289      | Recent advances in Analytical Chemistry                      |                      |   |
|  | 85287      | Chemical Analysis in Agro Food And Pharmaceutical Industries |                      |   |

| <b>M.Sc Part II :- Sem III Analytical CHEMISTRY (C.B.C.S.)</b> |            |  |                      | <b>New Revised From<br/>Oct 2020 Exam</b> |
|--|------------|--|----------------------|---|
| <b>Course code-205</b>   |            |  |                      |   |
| Paper No   | Paper Code | Paper Name   | Day and Date         | Paper Time                                |
| IX   | 80489      | Advanced Analytical Techniques                               | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm               |
| X  | 80490      | Organo Analytical chemistry                                  | Tuesday 13-06-2023   |   |
| XI   | 80491      | Electro analytical Techniques in chemical Analysis           | Wednesday 14-06-2023 |   |
| <b>PAPER NO. XII :- CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>  |            |  |                      |   |
| <b>PAPER NO. XII</b>   | 80492      | Environmental chemical Analysis and control                  | Thursday 15-06-2023  |   |
|  | 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 2023 Exam</b> |  |
|---|------------|---|----------------------|---|--|
| <b>Course code-2353</b>                                       |            |   |                      |   |  |
| Paper No  | Paper Code | Paper Name  | Day and Date         | Paper Time                              |  |
| XIII  | 86571      | Modern Separation method in Analysis                        | Monday 12-06-2023    | From 10.30am to 1.30pm                  |  |
| XIV   | 86572      | Organic Industrial Analysis                                 | Tuesday 13-06-2023   |   |  |
| XV  | 86573      | Advanced Methods in Chemical Analysis                       | Wednesday 14-06-2023 |   |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>                  |            |   |                      |   |  |
| XVI   | 86577      | Applied Analytical Chemistry                                | Thursday 15-06-2023  |   |  |
|   | 86578      | Quality Assurance and Accreditation                         |                      |   |  |
|   | 86576      | Techniques in Forensic Science and Microbiological Analysis |                      |   |  |

**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> |  |
|---|------------|---|----------------------|---|--|
| <b>Course code-205</b>  |            |   |                      |   |  |
| Paper No  | Paper Code | Paper Name  | Day and Date         | Paper Time                              |  |
| XIII  | 81580      | Modern Separation method in Analysis                        | Monday 12-06-2023    | From 10.30am to 1.30pm                  |  |
| XIV   | 81581      | Organic Industrial Analysis                                 | Tuesday 13-06-2023   |   |  |
| XV  | 81582      | Advanced Methods in Chemical Analysis                       | Wednesday 14-06-2023 |   |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>                  |            |   |                      |   |  |
| XVI   | 81583      | Applied Analytical Chemistry                                | Thursday 15-06-2023  |   |  |
|   | 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 2022 Exam</b> |  |
|---|------------|---|----------------------|---------------------------------------|--|
| <b>Course code-2341</b>                                       |            |   |                      |                                       |  |
| Paper No  | Paper Code | Paper Name                                | Day and Date         | Paper Time                            |  |
| IX  | 85381      | Inorganic Chemical Spectroscopy           | Monday 12-06-2023    | Form 2.30pm to 5.30pm                 |  |
| X   | 85382      | Co-Ordination Chemistry                   | Tuesday 13-06-2023   |                                       |  |
| XI  | 85383      | Nuclear Chemistry                         | Wednesday 14-06-2023 |                                       |  |
| <b>PAPER NO:-XII CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>    |            |   |                      |                                       |  |
| XII   | 85384      | Organometallic and Bioinorganic Chemistry | Thursday 15-06-2023  |                                       |  |
|   | 85385      | Selected Topics in Inorganic chemistry    |                      |                                       |  |

**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 2020 Exam</b> |
|---|------------|---|----------------------|---------------------------------------|
| <b>Course code-205</b>  |            |   |                      |                                       |
| Paper No  | Paper Code | Paper Name                                | Day and Date         | Paper Time                            |
| IX  | 80460      | Inorganic Chemical Spectroscopy           | Monday 12-06-2023    | Form 2.30pm to 5.30pm                 |
| X   | 80461      | Co-Ordination Chemistry                   | Tuesday 13-06-2023   |                                       |
| XI  | 80462      | Nuclear Chemistry                         | Wednesday 14-06-2023 |                                       |
| <b>PAPER NO:-XII CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>    |            |   |                      |                                       |
| XII   | 80463      | Organometallic and Bioinorganic Chemistry | Thursday 15-06-2023  |                                       |
|   | 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.) Course</b> |            |                                    |                      | <b>New Revised From March 2023 Exam</b> |
|---|------------|------------------------------------|----------------------|---|
| <b>code-2353</b>  |            |                                    |                      |   |
| Paper No  | Paper Code | Paper Name                         | Day and Date         | Paper Time                              |
| XIII  | 86704      | Instrumental Techniques            | Monday 12-06-2023    | From 10.30am to 1.30pm                  |
| XIV   | 86705      | Co-Ordination Chemistry            | Tuesday 13-06-2023   |   |
| XV  | 86706      | Chemistry of Inorganic Materials   | Wednesday 14-06-2023 |   |
| <b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>                        |            |                                    |                      |   |
| XVI   | 86709      | Energy and Environmental Chemistry | Thursday 15-06-2023  |   |
|   | 86710      | Radiation Chemistry                |                      |   |

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

| <b>M.Sc Part II :- Sem IV Inorganic CHEMISTRY (C.B.C.S.) Course</b> |            |                                    |                      | <b>New Revised From March 2021 Exam</b> |
|---|------------|------------------------------------|----------------------|---|
| <b>code-205</b>   |            |                                    |                      |   |
| Paper No  | Paper Code | Paper Name                         | Day and Date         | Paper Time                              |
| XIII  | 81554      | Instrumental Techniques            | Monday 12-06-2023    | From 10.30am to 1.30pm                  |
| XIV   | 81555      | Co-Ordination Chemistry            | Tuesday 13-06-2023   |   |
| XV  | 81556      | Chemistry of Inorganic Materials   | Wednesday 14-06-2023 |   |
| <b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>                        |            |                                    |                      |   |
| XVI   | 81557      | Energy and Environmental Chemistry | Thursday 15-06-2023  |   |
|   | 81558      | Radiation Chemistry                |                      |   |



| M.Sc Part II :- Sem III <b>Organic</b> CHEMISTRY (C.B.C.S.)<br>Course code-2341 |            |                                |                      | New Revised from<br>Oct2022<br>Exam |
|---|------------|--------------------------------|----------------------|-------------------------------------|
| Paper No  | Paper Code | Paper Name                     | Day and Date         | Paper Time                          |
| IX  | 85415      | Organic Reaction Mechanism     | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm         |
| X   | 85411      | Advanced Spectroscopic Methods | Tuesday 13-06-2023   |                                     |
| XI  | 85412      | Advanced Synthetic Method      | Wednesday 14-06-2023 |                                     |
| <b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>                                    |            |                                |                      |                                     |
| XII   | 85416      | Drugs and Heterocycles         | Thursday 15-06-2023  |                                     |
|   | 85417      | Polymer chemistry              |                      |                                     |

MSc Organic Chemistry (C.B.C.S)

| M.Sc Part II :- Sem III <b>Organic</b> CHEMISTRY (C.B.C.S.)<br>Course code-205 |            |                                |                      | New Revised from<br>Oct2020<br>Exam |
|--|------------|--------------------------------|----------------------|-------------------------------------|
| Paper No   | Paper Code | Paper Name                     | Day and Date         | Paper Time                          |
| IX   | 80474      | Organic Reaction Mechanism     | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm         |
| X  | 80475      | Advanced Spectroscopic Methods | Tuesday 13-06-2023   |                                     |
| XI   | 80476      | Advanced Synthetic Method      | Wednesday 14-06-2023 |                                     |
| <b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>                                   |            |                                |                      |                                     |
| XII  | 80477      | Drugs and Heterocycles         | Thursday 15-06-2023  |                                     |
|  | 80478      | Polymer chemistry              |                      |                                     |

| M.Sc Part II :- Sem IV <b>Organic</b> CHEMISTRY (C.B.C.S.)<br>Course code-2353 |            |                               |                      | New Revised From<br>March 2023 |
|--|------------|-------------------------------|----------------------|--------------------------------|
| Paper No   | Paper Code | Paper Name                    | Day and Date         | Paper Time                     |
| XIII   | 86729      | Theoretical Organic Chemistry | Monday 12-06-2023    | From 10.30am<br>to<br>1.30pm   |
| XIV  | 86730      | Stereochemistry               | Tuesday 13-06-2023   |                                |
| XV   | 86731      | Chemistry of Natural Products | Wednesday 14-06-2023 |                                |
| <b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>                                   |            |                               |                      |                                |
| XVI  | 86734      | Applied Organic Chemistry     | Thursday 15-06-2023  |                                |
|  | 86735      | Bio-organic Chemistry         |                      |                                |

  

| M.Sc Part II :- Sem IV <b>Organic</b> CHEMISTRY (C.B.C.S.)<br>Course code-205 |            |                               |                      | New Revised From<br>March 2021 |
|---|------------|-------------------------------|----------------------|--------------------------------|
| Paper No  | Paper Code | Paper Name                    | Day and Date         | Paper Time                     |
| XIII  | 81564      | Theoretical Organic Chemistry | Monday 12-06-2023    | From 10.30am<br>to<br>1.30pm   |
| XIV   | 81565      | Stereochemistry               | Tuesday 13-06-2023   |                                |
| XV  | 81566      | Chemistry of Natural Products | Wednesday 14-06-2023 |                                |
| <b>CHOOSE ANY ONE OF THE FOLLOWING PAPER</b>                                  |            |                               |                      |                                |
| XVI   | 81567      | Applied Organic Chemistry     | Thursday 15-06-2023  |                                |
|   | 81568      | Bio-organic Chemistry         |                      |                                |

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

| M.Sc Part II :- Sem III Applied CHEMISTRY (C.B.C.S.)      |            |                                |                      | New Revised From<br>Oct 2022 Exam |
|---|------------|--------------------------------|----------------------|-----------------------------------|
| <b>Course code-2341</b>                                   |            |                                |                      |                                   |
| Paper No  | Paper Code | Paper Name                     | Day and Date         | Paper Time                        |
| IX  | 85290      | Applied Inorganic Chemistry-I  | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm       |
| X   | 85291      | Applied Organic chemistry-I    | Tuesday 13-06-2023   |                                   |
| XI  | 85292      | Applied Physical Chemistry-I   | Wednesday 14-06-2023 |                                   |
| <b>Paper No XII CHOOSE ANY ONE OF THE FOLLOWING PAPER</b> |            |                                |                      |                                   |
| XII   | 85293      | Advanced Organic chemistry-I   | Thursday 15-06-2023  |                                   |
|   | 85294      | Applied Analytical Chemistry-I |                      |                                   |
|   | 85295      | Bioorganic Chemistry-I         |                      |                                   |

| M.Sc Part II :- Sem III Applied CHEMISTRY (C.B.C.S.)      |            |                                |                      | New Revised From<br>Oct 2020Exam |
|---|------------|--------------------------------|----------------------|----------------------------------|
| <b>Course code-205</b>                                    |            |                                |                      |                                  |
| Paper No  | Paper Code | Paper Name                     | Day and Date         | Paper Time                       |
| IX  | 80368      | Applied Inorganic Chemistry-I  | Monday 12-06-2023    | Form 2.30pm<br>to<br>5.30pm      |
| X   | 80369      | Applied Organic chemistry-I    | Tuesday 13-06-2023   |                                  |
| XI  | 80370      | Applied Physical Chemistry-I   | Wednesday 14-06-2023 |                                  |
| <b>Paper No XII CHOOSE ANY ONE OF THE FOLLOWING PAPER</b> |            |                                |                      |                                  |
| XII   | 80371      | Advanced Organic chemistry-I   | Thursday 15-06-2023  |                                  |
|   | 80372      | Applied Analytical Chemistry-I |                      |                                  |
|   | 80373      | Bioorganic Chemistry-I         |                      |                                  |

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

| M.Sc Part II :- Sem IV Applied CHEMISTRY (C.B.C.S.)   |            |                                 |                      | New Revised From<br>March 2023 |
|---|------------|---------------------------------|----------------------|--------------------------------|
| <b>Course code-2353</b>                               |            |                                 |                      |                                |
| Paper No  | Paper Code | Paper Name                      | Day and Date         | Paper Time                     |
| XIII  | 86579      | Applied Inorganic Chemistry -II | Monday 12-06-2023    | From 10.30am<br>to<br>1.30pm   |
| XIV   | 86580      | Applied Organic Chemistry-II    | Tuesday 13-06-2023   |                                |
| XV  | 86581      | Advance Organic Chemistry-II    | Wednesday 14-06-2023 |                                |
| <b>Paper No CHOOSE ANY ONE OF THE FOLLOWING PAPER</b> |            |                                 |                      |                                |
| XVI   | 86584      | Inorganic Chemical Industries   | Thursday 15-06-2023  |                                |
|   | 86585      | Pollution Monitoring Control    |                      |                                |
|   | 86586      | Applied Analytical Chemistry-II |                      |                                |

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

| M.Sc Part II :- Sem IV Applied CHEMISTRY (C.B.C.S.)   |            |                                 |                      | New Revised From<br>March 2021 |
|---|------------|---------------------------------|----------------------|--------------------------------|
| <b>Course code-205</b>                                |            |                                 |                      |                                |
| Paper No  | Paper Code | Paper Name                      | Day and Date         | Paper Time                     |
| XIII  | 80377      | Applied Inorganic Chemistry -II | Monday 12-06-2023    | From 10.30am<br>to<br>1.30pm   |
| XIV   | 80378      | Applied Organic Chemistry-II    | Tuesday 13-06-2023   |                                |
| XV  | 80379      | Advance Organic Chemistry-II    | Wednesday 14-06-2023 |                                |
| <b>Paper No CHOOSE ANY ONE OF THE FOLLOWING PAPER</b> |            |                                 |                      |                                |
| XVI   | 80380      | Inorganic Chemical Industries   | Thursday 15-06-2023  |                                |
|   | 80381      | Pollution Monitoring Control    |                      |                                |
|   | 80382      | Applied Analytical Chemistry-II |                      |                                |

| Course code-2341                       |                      |  | M.Sc Part II., :- Sem – III BOTANY |                              | New Revised from Oct 2022 exam |  |
|--|----------------------|--|------------------------------------|------------------------------|--------------------------------|--|
| Paper No                               | Paper Code           | Paper Name                                     | Day and Date                       | Paper Time                   |                                |  |
| CCS-301                                | 85317                | Cytogenetic & Crop Improvement                 | Monday 12-06-2023                  | <b>Form 2.30pm to 5.30pm</b> |                                |  |
| DSE-304                                | 85318                | Biotechnology and Genetic Engineering          | Tuesday 13-06-2023                 |                              |                                |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b> |                      |  |                                    |                              |                                |  |
| CCS-302                                | 85319                | Adv.Plant Physiology & Plant Biochemistry      | Wednesday 14-06-2023               |                              |                                |  |
|  | 85320                | Taxonomy of Fungi                              |                                    |                              |                                |  |
|  | 85321                | Cytogenetic                                    |                                    |                              |                                |  |
|  | 85322                | Environment & Its Aspects                      |                                    |                              |                                |  |
|  | 85323                | The evolution and Classification of Angiosperm |                                    |                              |                                |  |
|  | 85324                | General Marine Botany                          |                                    |                              |                                |  |
| 85325                                  | Plant Tissue Culture |  |                                    |                              |                                |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b> |                      |  |                                    |                              |                                |  |
| CCS-303                                | 85326                | Plant Growth & Development                     | Thursday 15-06-2023                |                              |                                |  |
|  | 85327                | Integrated Disease Management                  |                                    |                              |                                |  |
|  | 85328                | Plant Breeding                                 |                                    |                              |                                |  |
|  | 85329                | Population & Community Ecology                 |                                    |                              |                                |  |
|  | 85330                | Modern Trends in Angiosperm Taxonomy           |                                    |                              |                                |  |
|  | 85331                | Physiology & Biochemistry of Marine Plants     |                                    |                              |                                |  |
|  | 85332                | Molecular Biotechnology & Genetic Engineering  |                                    |                              |                                |  |

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

| Course code-205                        |            |  | M.Sc Part II., :- Sem – III BOTANY |                              | New Revised from Oct 2020 exam |  |
|--|------------|--|------------------------------------|------------------------------|--------------------------------|--|
| Paper No                               | Paper Code | Paper Name                                     | Day and Date                       | Paper Time                   |                                |  |
| CCS-301                                | 80536      | Cytogenetic & Crop Improvement                 | Monday 12-06-2023                  | <b>Form 2.30pm to 5.30pm</b> |                                |  |
| DSE-304                                | 80551      | Biotechnology and Genetic Engineering          | Tuesday 13-06-2023                 |                              |                                |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b> |            |  |                                    |                              |                                |  |
| CCS-302                                | 80537      | Adv.Plant Physiology & Plant Biochemistry      | Wednesday 14-06-2023               |                              |                                |  |
|  | 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                     | Thursday 15-06-2023                |                              |                                |  |
|  | 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)**

| Course code-2353                       |   |  | M.Sc Part II., :- Sem – IV BOTANY | New Revised From March 2023           |  |  |  |
|--|---|--|-----------------------------------|---------------------------------------|--|--|--|
| Paper No                               | Paper Code  | Paper Name   | Day and Date                      | Paper Time                            |  |  |  |
| CC-401                                 | 86622   | Plant Physiology and Metabolism                          | Monday 12-06-2023                 | <b>From 10.30am<br/>to<br/>1.30pm</b> |  |  |  |
| DSE-404                                | 86623   | Biodiversity, conservation and utilization               | Tuesday 13-06-2023                |                                       |  |  |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b> |   |  |                                   |                                       |  |  |  |
| CCS-402                                | 86626   | Stress Physiology of Plants                              | Wednesday 14-06-2023              |                                       |  |  |  |
|  | 86627   | Industrial Mycology                                      |                                   |                                       |  |  |  |
|  | 86628   | Molecular Genetics                                       |                                   |                                       |  |  |  |
|  | 86629   | Experimental Ecology and Energy studies                  |                                   |                                       |  |  |  |
|  | 86630   | Angiosperm Taxonomy Floristics & Biosystematics          |                                   |                                       |  |  |  |
|  | 86631   | Marine Ecology   |                                   |                                       |  |  |  |
| CCS-403                                | 86632   | Application and Prospects of Plant Tissue culture        | Thursday 15-06-2023               |                                       |  |  |  |
|  | <b>CHOOSE ANY ONE OF THE FOLLOWING</b>              |  |                                   |                                       |  |  |  |
|  | 86635   | Applied Plant Physiology                                 |                                   |                                       |  |  |  |
|  | 86636   | Integrated Disease Management                            |                                   |                                       |  |  |  |
|  | 86637   | Special Approaches in Genetic Improvement of Crop Plants |                                   |                                       |  |  |  |
|  | 86638   | Environmental issues assessment and Restoration          |                                   |                                       |  |  |  |
|  | 86639   | Phylogeny & floral Biology of Angiosperm                 |                                   |                                       |  |  |  |
| 86641                                  | Application, Regulation and Patenting Biotechnology |  |                                   |                                       |  |  |  |
| 86640                                  | Applied Marine Botany                               |  |                                   |                                       |  |  |  |

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

| Course code-205                        |   |  | M.Sc Part II., :- Sem – IV BOTANY | New Revised From March 2021           |  |  |  |
|--|---|--|-----------------------------------|---------------------------------------|--|--|--|
| Paper No                               | Paper Code  | Paper Name   | Day and Date                      | Paper Time                            |  |  |  |
| CC-401                                 | 82888   | Plant Physiology and Metabolism                          | Monday 12-06-2023                 | <b>From 10.30am<br/>to<br/>1.30pm</b> |  |  |  |
| DSE-404                                | 82889   | Biodiversity, conservation and utilization               | Tuesday 13-06-2023                |                                       |  |  |  |
| <b>CHOOSE ANY ONE OF THE FOLLOWING</b> |   |  |                                   |                                       |  |  |  |
| CCS-402                                | 82893   | Stress Physiology of Plants                              | Wednesday 14-06-2023              |                                       |  |  |  |
|  | 82894   | Industrial Mycology                                      |                                   |                                       |  |  |  |
|  | 82895   | Molecular Genetics                                       |                                   |                                       |  |  |  |
|  | 82896   | Experimental Ecology and Energy studies                  |                                   |                                       |  |  |  |
|  | 82897   | Angiosperm Taxonomy Floristics & Biostematics            |                                   |                                       |  |  |  |
|  | 82898   | Marine Ecology   |                                   |                                       |  |  |  |
| CCS-403                                | 82899   | Application and Prospects of Plant Tissue culture        | Thursday 15-06-2023               |                                       |  |  |  |
|  | <b>CHOOSE ANY ONE OF THE FOLLOWING</b>              |  |                                   |                                       |  |  |  |
|  | 82900   | Applied Plant Physiology                                 |                                   |                                       |  |  |  |
|  | 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                               |  |                                   |                                       |  |  |  |

| <b>Course code-2341</b>                     |            | <b>M.Sc Part II :- Sem.-III Electronics</b>    |                      | <b>New Revised From Oct 2022 Exam</b> |
|---|------------|--|----------------------|---------------------------------------|
| Paper No                                    | Paper Code | Paper Name                                     | Day and Date         | Paper Time                            |
| CC-301                                      | 85340      | Control Theory                                 | Monday 12-06-2023    | <b>Form 2.30pm<br/>to<br/>5.30pm</b>  |
| CCS-302                                     | 85341      | Computer Network                               | Tuesday 13-06-2023   |                                       |
| CCS-303                                     | 85342      | Microcontroller System Design ARM Architecture | Wednesday 14-06-2023 |                                       |
| <b>CHOOSE ANY ONE OF PAPER FROM DSE-304</b> |            |  |                      |                                       |
| DSE-304                                     | 85343      | Industrial Automation                          | Thursday 15-06-2023  |                                       |
|   | 85344      | Biomedical Instrumentation                     |                      |                                       |
|   | 85345      | MATLAB Programming for Numerial Computation    |                      |                                       |
|   | 85346      | Hardware-Software Co-design                    |                      |                                       |
|   | 85347      | Satellite Communication                        |                      |                                       |
|   | 85348      | Soft Computing                                 |                      |                                       |
|   | 85349      | VHDL Programming                               |                      |                                       |

| <b>Course code-205</b>                      |            | <b>M.Sc Part II :- Sem.-III Electronics</b>    |                      | <b>New Revised From Oct 2020 Exam</b> |
|---|------------|--|----------------------|---------------------------------------|
| Paper No                                    | Paper Code | Paper Name                                     | Day and Date         | Paper Time                            |
| CC-301                                      | 80507      | Control Theory                                 | Monday 12-06-2023    | <b>Form 2.30pm<br/>to<br/>5.30pm</b>  |
| CCS-302                                     | 80508      | Computer Network                               | Tuesday 13-06-2023   |                                       |
| CCS-303                                     | 80509      | Microcontroller System Design ARM Architecture | Wednesday 14-06-2023 |                                       |
| <b>CHOOSE ANY ONE OF PAPER FROM DSE-304</b> |            |  |                      |                                       |
| DSE-304                                     | 80510      | Industrial Automation                          | Thursday 15-06-2023  |                                       |
|   | 80511      | Biomedical Instrumentation                     |                      |                                       |
|   | 80512      | MATLAB Programming for Numerial Computation    |                      |                                       |
|   | 80513      | Hardware-Software Co-design                    |                      |                                       |
|   | 80514      | Satellite Communication                        |                      |                                       |
|   | 80515      | Soft Computing                                 |                      |                                       |
|   | 80516      | VHDL Programming                               |                      |                                       |

| <b>M.sc Part II Sem-IV -ELECTRONICS ( C.B.C.S.) New Revised From March 2023</b> |            |  |                      |                                       |
|---|------------|--|----------------------|---------------------------------------|
| <b>Course code-2353</b>   |            |  |                      |                                       |
| Paper No  | Paper Code | Paper Name   | Day and Date         | Paper Time                            |
| CC-401  | 86650      | Digital Signal Processing                            | Monday 12-06-2023    | <b>From 10.30am<br/>to<br/>1.30pm</b> |
| CCS-402   | 86651      | Analog and Digital Circuit Design                    | Tuesday 13-06-2023   |                                       |
| CCS-403   | 86652      | Real Time Embedded System                            | Wednesday 14-06-2023 |                                       |
| <b>- CHOOSE ANY One OF THE FOLLOWING</b>  |            |  |                      |                                       |
| DSE-404   | 86658      | Advanced Drives                                      | Thursday 15-06-2023  |                                       |
|   | 86661      | Artificial Intelligence & Machine Learning           |                      |                                       |
|   | 86657      | IOT & Data Analytics                                 |                      |                                       |
|   | 86655      | ARM Programming and Embedded Communication Protocols |                      |                                       |
|   | 86660      | FPGA Based Systems                                   |                      |                                       |
|   | 86659      | Antennas   |                      |                                       |
|   | 86662      | Mechnatronics  |                      |                                       |
|   | 86656      | Cellular Mobile communication                        |                      |                                       |

| Course code-205 | M.sc Part II Sem-IV -ELECTRONICS ( C.B.C.S |  |                      |   |
|-----------------|--|--|----------------------|---|
| Paper No        | Paper Code                                 | Paper Name   | Day and Date         | Paper Time                                |
| CC-401          | 81779                                      | Digital Signal Processing                            | Monday 12-06-2023    | <b>From<br/>10.30am<br/>to<br/>1.30pm</b> |
| CCS-402         | 81780                                      | Analog and Digital Circuit Design                    | Tuesday 13-06-2023   |   |
| CCS-403         | 81781                                      | Real Time Embedded System                            | Wednesday 14-06-2023 |   |
| DSE-404         | <b>- CHOOSE ANY One OF THE FOLLOWING</b>   |  |                      |   |
|                 |  | Advanced Drives                                      | Thursday 15-06-2023  |   |
|                 | 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.)

| Course code-2341 | M.Sc Part-II Sem III INDUSTRIAL CHEMISTRY ( C.B.C.S.) |   |                      |                                      |
|------------------|---|---|----------------------|--------------------------------------|
| Paper No         | Paper Code  | Paper Name  | Day and Date         | Paper Time                           |
| IND-3.1          | 85375   | Organic Chemical Industries                                   | Monday 12-06-2023    | <b>Form 2.30pm<br/>to<br/>5.30pm</b> |
| IND-3.2          | 85376   | Inorganic Chemical Industries                                 | Tuesday 13-06-2023   |                                      |
| IND-3.3          | 85377   | Methods of Analysis in Industries                             | Wednesday 14-06-2023 |                                      |
| IND-1TO 3        | <b>CHOOSE ANY ONE IND-ITO 3</b>                       |   |                      |                                      |
|                  | 85379   | General Chemical Technology                                   | Thursday 15-06-2023  |                                      |
|                  | 85380   | Advanced Analytical Techniques in Industry                    |                      |                                      |
|                  | 85374   | Chemical Analysis in Agro, Food and Pharmaceutical Industries |                      |                                      |
|                  |   |   |                      |                                      |

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

| Course code-205 | M.Sc Part-II Sem III INDUSTRIAL CHEMISTRY ( C.B.C.S.) |   |                      |                                      |
|-----------------|---|---|----------------------|--------------------------------------|
| Paper No        | Paper Code  | Paper Name  | Day and Date         | Paper Time                           |
| IND-3.1         | 80387   | Organic Chemical Industries                                   | Monday 12-06-2023    | <b>Form 2.30pm<br/>to<br/>5.30pm</b> |
| IND-3.2         | 80388   | Inorganic Chemical Industries                                 | Tuesday 13-06-2023   |                                      |
| IND-3.3         | 80389   | Methods of Analysis in Industries                             | Wednesday 14-06-2023 |                                      |
| IND-1TO 3       | <b>CHOOSE ANY ONE IND-ITO 3</b>                       |   |                      |                                      |
|                 | 80390   | General Chemical Technology                                   | Thursday 15-06-2023  |                                      |
|                 | 80391   | Advanced Analytical Techniques in Industry                    |                      |                                      |
|                 | 80392   | Chemical Analysis in Agro, Food and Pharmaceutical Industries |                      |                                      |
|                 |   |   |                      |                                      |

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

| Course code-2353 M.Sc Part-II Sem IV INDUSTRIAL CHEMISTRY( C.B.C.S.) |   |   |                      | New Revised from March 2023   |
|--|---|---|----------------------|-------------------------------|
| Paper No   | Paper Code                                    | Paper Name                              | Day and Date         | Paper Time                    |
| XIII   | 86696   | Drug and Pharmaceuticals                | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |
| XIV  | 86697   | Inorganic Chemical Industries           | Tuesday 13-06-2023   |                               |
| XV   | 86698   | Selected Topics in Industrial Chemistry | Wednesday 14-06-2023 |                               |
| XVI  | <b>CHOOSE ANY One OF THE FOLLOWING</b>        |   |                      |                               |
|  | 86701   | Environmental Chemistry                 | Thursday 15-06-2023  |                               |
|  | 86702   | Pharmaceutical Chemistry                |                      |                               |
| 86703  | Chemistry of Industrially Important Materials |   |                      |                               |

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

| Course code-205 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 Time                    |
| XIII  | 80395   | Drug and Pharmaceuticals                | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |
| XIV   | 80396   | Inorganic Chemical Industries           | Tuesday 13-06-2023   |                               |
| XV  | 80397   | Selected Topics in Industrial Chemistry | Wednesday 14-06-2023 |                               |
| XVI   | <b>CHOOSE ANY One OF THE FOLLOWING</b>        |   |                      |                               |
|   | 80398   | Environmental Chemistry                 | Thursday 15-06-2023  |                               |
|   | 80399   | Pharmaceutical Chemistry                |                      |                               |
| 80400   | Chemistry of Industrially Important Materials |   |                      |                               |

### M.Sc. Biochemistry

| Course code-2341 M.Sc Part-II Sem-III - BIOCHEMISTRY |            |  |                      | New Revised From Oct 2022 Exam |
|--|------------|--|----------------------|--------------------------------|
| Paper No   | Paper Code | Paper Name                               | Day and Date         | Paper Time                     |
| CC-301   | 85306      | Genetic Engineering                      | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b>   |
| CCS-302  | 85307      | Biomembrances & Cytoskeleton             | Tuesday 13-06-2023   |                                |
| DSE-304  | 85308      | Immunology                               | Wednesday 14-06-2023 |                                |
| <b>Choose Any One Of the Following</b>               |            |  |                      |                                |
| CCS-303- A   | 85309      | Fermentation Technology                  | Thursday 15-06-2023  |                                |
| CCS-303- B   | 85310      | Clinical Biochemistry                    |                      |                                |
| CCS-303- C   | 85311      | Biochemical and Environmental Toxicology |                      |                                |

### M.Sc. Biochemistry

| Course code-205 M.Sc Part-II Sem-III - BIOCHEMISTRY |            |  |                      | New Revised From Oct 2020 Exam |
|---|------------|--|----------------------|--------------------------------|
| Paper No  | Paper Code | Paper Name                               | Day and Date         | Paper Time                     |
| CC-301  | 80403      | Genetic Engineering                      | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b>   |
| CCS-302   | 80404      | Biomembrances & Cytoskeleton             | Tuesday 13-06-2023   |                                |
| DSE-304   | 80408      | Immunology                               | Wednesday 14-06-2023 |                                |
| <b>Choose Any One Of the Following</b>              |            |  |                      |                                |
| CCS-303- A  | 80405      | Fermentation Technology                  | Thursday 15-06-2023  |                                |
| CCS-303- B  | 80406      | Clinical Biochemistry                    |                      |                                |
| CCS-303- C  | 80407      | Biochemical and Environmental Toxicology |                      |                                |

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

| Course code-2353                       |            | M.sc Part II Sem- IV- BIOCHEMISTRY ( C.B.C.S.)                           |                      | New Revised From March 2023   |
|--|------------|--|----------------------|-------------------------------|
| Paper No                               | Paper Code | Paper Name   | Day and Date         | Paper Time                    |
| CC-401                                 | 90505      | Research Methodology, Entrepreneurship Development & Communication skill | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |
| CCS-402                                | 90506      | Neurochemistry and Carcinogenesis  | Tuesday 13-06-2023   |                               |
| CCS-403                                | 90507      | Bioinformatics   | Wednesday 14-06-2023 |                               |
| <b>Choose Any One of the Following</b> |            |  |                      |                               |
| DSE-404A                               | 90508      | Fermentation Technology – II   | Thursday 15-06-2023  |                               |
| DSE-404B                               | 90509      | Clinical Biochemistry – II   |                      |                               |
| DSE-404C                               | 90510      | Biochemical and Environmental Toxicology– II                             |                      |                               |

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

| Course code-205                        |            | 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 Time                    |
| CC-401                                 | 80413      | Research Methodology, Entrepreneurship Development & Communication skill | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |
| CCS-402                                | 80414      | Neurochemistry and Carcinogenesis  | Tuesday 13-06-2023   |                               |
| CCS-403                                | 80415      | Bioinformatics   | Wednesday 14-06-2023 |                               |
| <b>Choose Any One of the Following</b> |            |  |                      |                               |
| DSE-404A                               | 80416      | Fermentation Technology – II   | Thursday 15-06-2023  |                               |
| DSE-404B                               | 80417      | Clinical Biochemistry – II   |                      |                               |
| DSE-404C                               | 80418      | Biochemical and Environmental Toxicology– II                             |                      |                               |

**M.Sc. BIOTECHNOLOGY**

| New Revised From Oct 2022 exam |            | M.sc Part-II Sem-III BIOTECHNOLOGY |                      | Course code-2341             |
|--------------------------------|------------|------------------------------------|----------------------|------------------------------|
| Paper No                       | Paper Code | Paper Name                         | Day and Date         | Paper Time                   |
| CC-301                         | 85312      | Genetic Engineering                | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b> |
| DSE-304                        | 85313      | Immunology                         | Tuesday 13-06-2023   |                              |
| CC-303                         | 85314      | Fermentation Technology-I          | Wednesday 14-06-2023 |                              |
| CCS-302                        | 85315      | Advances in Plant Biotechnology    | Thursday 15-06-2023  |                              |

**M.Sc. BIOTECHNOLOGY**

| New Revised From Oct 2020 exam |            | M.sc Part-II Sem-III BIOTECHNOLOGY |                      | Course code-205              |
|--------------------------------|------------|------------------------------------|----------------------|------------------------------|
| Paper No                       | Paper Code | Paper Name                         | Day and Date         | Paper Time                   |
| CC-301                         | 80453      | Genetic Engineering                | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b> |
| DSE-304                        | 80456      | Immunology                         | Tuesday 13-06-2023   |                              |
| CC-303                         | 80455      | Fermentation Technology-I          | Wednesday 14-06-2023 |                              |
| CCS-302                        | 80454      | Advances in Plant Biotechnology    | Thursday 15-06-2023  |                              |



**M.Sc. BIOTECHNOLOGY**

| <b>Course code-2341 M.sc Part II Sem- IV- BIOTECHNOLOGY</b> |            |                                     |                      | New Revised From<br>March 2023        |
|---|------------|-------------------------------------|----------------------|---------------------------------------|
| Paper No  | Paper Code | Paper Name                          | Day and Date         | Paper Time                            |
| CC401   | 86615      | Animal Tissue culture               | Monday 12-06-2023    | <b>From 10.30am<br/>to<br/>1.30pm</b> |
| CCS403  | 86614      | Bioinformatics                      | Wednesday 14-06-2023 |                                       |
| <b>Choose Any One of the Following</b>                      |            |                                     |                      |                                       |
| CCS402<br>A   | 86618      | Advances in Genomics and Proteomics | Tuesday 13-06-2023   |                                       |
| CCS402B   | 86619      | Microbial Fermentation Technology   |                      |                                       |
| <b>Choose Any One of the Following</b>                      |            |                                     |                      |                                       |
| DSE404A   | 86621      | Nanobiotechnology                   | Thursday 15-06-2023  |                                       |
| DSE404B   | 86620      | Fermentation Technology-II          |                      |                                       |

**M.Sc. BIOTECHNOLOGY**

| <b>Course code-205 M.sc Part II Sem- IV- BIOTECHNOLOGY</b> |            |                                     |                      | New Revised From<br>March 2021        |
|--|------------|-------------------------------------|----------------------|---------------------------------------|
| Paper No   | Paper Code | Paper Name                          | Day and Date         | Paper Time                            |
| CC401  | 82847      | Animal Tissue culture               | Monday 12-06-2023    | <b>From 10.30am<br/>to<br/>1.30pm</b> |
| CCS403   | 82842      | Bioinformatics                      | Wednesday 14-06-2023 |                                       |
| <b>Choose Any One of the Following</b>                     |            |                                     |                      |                                       |
| CCS402<br>A  | 82848      | Advances in Genomics and Proteomics | Tuesday 13-06-2023   |                                       |
| CCS402B  | 82849      | Microbial Fermentation Technology   |                      |                                       |
| <b>Choose Any One of the Following</b>                     |            |                                     |                      |                                       |
| DSE404A  | 82851      | Nanobiotechnology                   | Thursday 15-06-2023  |                                       |
| DSE404B  | 82852      | Fermentation Technology-II          |                      |                                       |

**M.Sc. ENV. BIOTECHNOLOGY**

| <b>M.Sc Part-II Sem-III - ENV. BIOTECHNOLOGY</b> |            |   |                      | <b>Course code-2341</b>              |
|--|------------|---|----------------------|--------------------------------------|
| <b>New Revised From Oct 2022 Exam</b>            |            |   |                      |                                      |
| Paper No   | Paper Code | Paper Name  | Day and Date         | Paper Time                           |
| CC-301   | 85350      | Genetic Engineering                               | Monday 12-06-2023    | <b>From 2.30pm<br/>to<br/>5.30pm</b> |
| DSE-304  | 85351      | Immunology  | Tuesday 13-06-2023   |                                      |
| CCS-302  | 85332      | Basics of Ecology, Ecotoxicology and Ecochemistry | Wednesday 14-06-2023 |                                      |
| <b>Choose Any One Of the Following</b>           |            |   |                      |                                      |
| CCS-303 -A                                       | 85353      | Fermentation Technology-I                         | Thursday 15-06-2023  |                                      |
| CCS-303-B  | 85334      | Biochemical and environmental Toxicology -I       |                      |                                      |

**M.Sc. ENV. BIOTECHNOLOGY**

| <b>M.Sc Part-II Sem-III - ENV. BIOTECHNOLOGY</b> |            |   |                      | <b>Course code-205</b>               |
|--|------------|---|----------------------|--------------------------------------|
| <b>New Revised From Oct 2020 Exam</b>            |            |   |                      |                                      |
| Paper No   | Paper Code | Paper Name  | Day and Date         | Paper Time                           |
| CC-301   | 80436      | Genetic Engineering                               | Monday 12-06-2023    | <b>From 2.30pm<br/>to<br/>5.30pm</b> |
| DSE-304  | 80440      | Immunology  | Tuesday 13-06-2023   |                                      |
| CCS-302  | 80437      | Basics of Ecology, Ecotoxicology and Ecochemistry | Wednesday 14-06-2023 |                                      |
| <b>Choose Any One Of the Following</b>           |            |   |                      |                                      |
| CCS-303 -A                                       | 80438      | Fermentation Technology-I                         | Thursday 15-06-2023  |                                      |
| 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. ) |            |  |                      | Course code-2341              |
|--|------------|--|----------------------|-------------------------------|
| Paper No   | Paper Code | Paper Name                                   | Day and Date         | Paper Time                    |
| CC-401   | 86663      | Environmental Monitoring and Risk Assessment | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |
| CCS-402  | 86664      | Environmental Biotechnology                  | Tuesday 13-06-2023   |                               |
| CCS-403  | 86665      | Bioinformatics                               | Wednesday 14-06-2023 |                               |
| <b>Choose Any One Of the Following</b>               |            |  |                      |                               |
| DSE-404A   | 86669      | Biodiversity, IPR Biosafety& Bioethics       | Thursday 15-06-2023  |                               |
| DSE-404B   | 86668      | Biochemical and Environmental Toxicology     |                      |                               |

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

| M.Sc Part-II Sem-IV- ENV. BIOTECHNOLOGY ( C.B.C.S. ) |            |  |                      | Course code-205              |
|--|------------|--|----------------------|------------------------------|
| Paper No   | Paper Code | Paper Name                                   | Day and Date         | Paper Time                   |
| CC-401   | 80444      | Environmental Monitoring and Risk Assessment | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b> |
| CCS-402  | 80445      | Environmental Biotechnology                  | Tuesday 13-06-2023   |                              |
| CCS-403  | 80446      | Bioinformatics                               | Wednesday 14-06-2023 |                              |
| <b>Choose Any One Of the Following</b>               |            |  |                      |                              |
| DSE-404A   | 80447      | Biodiversity, IPR Biosafety& Bioethics       | Thursday 15-06-2023  |                              |
| 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. ) |            |                                      |                      | Course code-2341              | New Revised From Oct 2022 Exam |
|---|------------|--------------------------------------|----------------------|-------------------------------|--------------------------------|
| Paper No  | Paper Code | Paper Name                           | Day and Date         | Paper Time                    |                                |
| CC-301  | 85408      | Genetic Engineering                  | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |                                |
| CCS-302   | 85409      | Microbial Diversity and Extremophils | Thursday 15-06-2023  |                               |                                |
| CCS-303   | 85407      | Fermentation Technology              | Wednesday 14-06-2023 |                               |                                |
| DSE-304   | 85410      | Immunology                           | Tuesday 13-06-2023   |                               |                                |

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

| M.Sc Part-II Sem-III- Microbiology ( C.B.C.S. ) |            |                                      |                      | Course code-205              | New Revised From Oct 2020Exam |
|---|------------|--------------------------------------|----------------------|------------------------------|-------------------------------|
| Paper No  | Paper Code | Paper Name                           | Day and Date         | Paper Time                   |                               |
| CC-301  | 80573      | Genetic Engineering                  | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b> |                               |
| CCS-302   | 80574      | Microbial Diversity and Extremophils | Thursday 15-06-2023  |                              |                               |
| CCS-303   | 80575      | Fermentation Technology              | Wednesday 14-06-2023 |                              |                               |
| DSE-304   | 80577      | Immunology                           | Tuesday 13-06-2023   |                              |                               |

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

| M.sc part-II Sem-IV MICROBIOLOGY ( C.B.C.S. ) |            |                                   |                      | Course code-2341              | New Revised From March2023 |
|---|------------|-----------------------------------|----------------------|-------------------------------|----------------------------|
| Paper No                                      | Paper Code | Paper Name                        | Day and Date         | Paper Time                    |                            |
| CC-401  | 86723      | Food and Dairy Microbiology       | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |                            |
| CCS-402                                       | 86724      | Microbial Fermentation Technology | Tuesday 13-06-2023   |                               |                            |
| CCS-403                                       | 86725      | Bioinformatics                    | Wednesday 14-06-2023 |                               |                            |
| DSE-404                                       | 86726      | Medical Microbiology              | Thursday 15-06-2023  |                               |                            |

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

| M.sc part-II Sem-IV MICROBIOLOGY ( C.B.C.S. ) |            |                                   |                      | New Revised From<br>March2021         |
|---|------------|-----------------------------------|----------------------|---------------------------------------|
| Course code-205                               |            |                                   |                      |                                       |
| Paper No                                      | Paper Code | Paper Name                        | Day and Date         | Paper Time                            |
| CC-401  | 82840      | Food and Dairy Microbiology       | Monday 12-06-2023    | <b>From 10.30am<br/>to<br/>1.30pm</b> |
| CCS-402                                       | 82841      | Microbial Fermentation Technology | Tuesday 13-06-2023   |                                       |
| CCS-403                                       | 82842      | Bioinformatics                    | Wednesday 14-06-2023 |                                       |
| DSE-404                                       | 82843      | Medical Microbiology              | Thursday 15-06-2023  |                                       |

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

| M.Sc Part-II Sem-III- Pharmaceutical Microbiology ( C.B.C.S. ) |            |                                      |                      | New Revised From<br>Oct2022 Exam     |
|--|------------|--------------------------------------|----------------------|--------------------------------------|
| Course code-2341   |            |                                      |                      |                                      |
| Paper No   | Paper Code | Paper Name                           | Day and Date         | Paper Time                           |
| CC-301   | 85418      | Genetic Engineering                  | Monday 12-06-2023    | <b>From 2.30pm<br/>to<br/>5.30pm</b> |
| CCS-302  | 85420      | Microbial Diversity and Extremophils | Thursday 15-06-2023  |                                      |
| CCS-303  | 85419      | Pharmaceutical Microbiology          | Wednesday 14-06-2023 |                                      |
| DSE-304  | 85421      | Immunology                           | Tuesday 13-06-2023   |                                      |

| M.Sc Part-II Sem-III- Pharmaceutical Microbiology ( C.B.C.S. ) |            |                                      |                      | New Revised From<br>Oct2020<br>Exam  |
|--|------------|--------------------------------------|----------------------|--------------------------------------|
| Course code-205  |            |                                      |                      |                                      |
| Paper No   | Paper Code | Paper Name                           | Day and Date         | Paper Time                           |
| CC-301   | 80422      | Genetic Engineering                  | Monday 12-06-2023    | <b>From 2.30pm<br/>to<br/>5.30pm</b> |
| CCS-302  | 80423      | Microbial Diversity and Extremophils | Thursday 15-06-2023  |                                      |
| CCS-303  | 80424      | Pharmaceutical Microbiology          | Wednesday 14-06-2023 |                                      |
| DSE-304  | 80425      | Immunology                           | Tuesday 13-06-2023   |                                      |

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

| M.Sc Part-II Sem-IV- Pharmaceutical Microbiology ( C.B.C.S. ) |            |   |                      | New Revised From<br>Marc 2021<br>Exam |
|---|------------|---|----------------------|---------------------------------------|
| Course code-2341  |            |   |                      |                                       |
| Paper No  | Paper Code | Paper Name                                    | Day and Date         | Paper Time                            |
| CC401   | 90499      | Quality Management and IPR                    | Monday 12-06-2023    | <b>From 10.30am<br/>to<br/>1.30pm</b> |
| CCS402  | 90500      | Fermentation Technology and Process Designing | Tuesday 13-06-2023   |                                       |
| CCS403  | 90501      | Bioinformatics                                | Wednesday 14-06-2023 |                                       |
| DSE404  | 90502      | Medical Microbiology                          | Thursday 15-06-2023  |                                       |

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

| M.Sc Part-II Sem-IV- Pharmaceutical Microbiology ( C.B.C.S. ) |            |   |                      | <b>New Revised From<br/>Marc 2021<br/>Exam</b> |
|---|------------|---|----------------------|--|
| <b>Course code-205</b>  |            |   |                      |  |
| Paper No  | Paper Code | Paper Name                                    | Day and Date         | Paper Time                                     |
| CC401   | 80429      | Quality Management and IPR                    | Monday 12-06-2023    | <b>From 10.30am<br/>to<br/>1.30pm</b>          |
| CCS402  | 80430      | Fermentation Technology and Process Designing | Tuesday 13-06-2023   |  |
| CCS403  | 80431      | Bioinformatics                                | Wednesday 14-06-2023 |  |
| DSE404  | 80432      | Medical Microbiology                          | Thursday 15-06-2023  |  |

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

| <b>New Revised From Oct 2022<br/>Exam Course code-2341</b> |            | Branch M.Sc Part-II Sem-III - AGRO CHEMICAL & PEST MANAGEMNT ( C.B.C.S.) |                      |                                      |
|--|------------|--|----------------------|--------------------------------------|
| Paper No   | Paper Code | Paper Name   | Day and Date         | Paper Time                           |
| IX   | 86363      | Pesticide Residues And Toxicology  | Monday 12-06-2023    | <b>From 2.30pm<br/>to<br/>5.30pm</b> |
| X  | 86364      | Pest of Crop Plants And Their Control-I                                  | Tuesday 13-06-2023   |                                      |
| XI   | 86365      | Analysis of Agrochemical   | Wednesday 14-06-2023 |                                      |
| XII  | 86366      | Diseases of Vegetables Fruit tress,Plantation,Forest Ornamental Plants   | Thursday 15-06-2023  |                                      |

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

| <b>New Revised From Oct 2020<br/>Exam Course code-205</b> |            | Branch M.Sc Part-II Sem-III - AGRO CHEMICAL & PEST MANAGEMNT ( C.B.C.S.) |                      |                                      |
|---|------------|--|----------------------|--------------------------------------|
| Paper No  | Paper Code | Paper Name   | Day and Date         | Paper Time                           |
| IX  | 80567      | Pesticide Residues And Toxicology  | Monday 12-06-2023    | <b>From 2.30pm<br/>to<br/>5.30pm</b> |
| X   | 80568      | Pest of Crop Plants And Their Control-I                                  | Tuesday 13-06-2023   |                                      |
| XI  | 80569      | Analysis of Agrochemical   | Wednesday 14-06-2023 |                                      |
| XII   | 80570      | Diseases of Vegetables Fruit tress,Plantation,Forest Ornamental Plants   | Thursday 15-06-2023  |                                      |

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

| <b>New Revised From March<br/>2023Exam</b> |            | M.Sc Part-II Sem-IV - AGRO CHEMICAL & PEST MANAGEMNT (C.B.C.S.) |                      | <b>Course code-2341</b>               |
|--|------------|---|----------------------|---------------------------------------|
| Paper No                                   | Paper Code | Paper Name  | Day and Date         | Paper Time                            |
| XIII                                       | 86565      | Agro-based Marketing Management                                 | Monday 12-06-2023    | <b>From 10.30am<br/>to<br/>1.30pm</b> |
| XIV  | 86566      | Pests Of Crop Plants And Their Control- II                      | Tuesday 13-06-2023   |                                       |
| XV   | 86567      | Manufacture Of Agrochemicals                                    | Wednesday 14-06-2023 |                                       |
| XVI  | 86568      | Agricultural Bio-Technology and Integrated Disease Management   | Thursday 15-06-2023  |                                       |

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

|   |            |   |                      |                               |
|---|------------|---|----------------------|-------------------------------|
| <b>New Revised From March 2021 Exam</b> |            | M.Sc Part-II Sem-IV - AGRO CHEMICAL & PEST MANAGEMNT (C.B.C.S.) |                      | <b>Course code-205</b>        |
| Paper No                                | Paper Code | Paper Name  | Day and Date         | Paper Time                    |
| XIII                                    | 81640      | Agro-based Marketing Management                                 | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |
| XIV                                     | 81641      | Pests Of Crop Plants And Their Control- II                      | Tuesday 13-06-2023   |                               |
| XV                                      | 81642      | Manufacture Of Agrochemicals                                    | Wednesday 14-06-2023 |                               |
| XVI                                     | 81643      | Agricultural Bio-Technology and Integrated Disease Management   | Thursday 15-06-2023  |                               |

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

|                                       |            |  |                      |                              |
|---------------------------------------|------------|--|----------------------|------------------------------|
| <b>New Revised From Oct 2022 Exam</b> |            | M.Sc Part-II Sem-III General MICROBIOLOGY -        |                      | <b>Course code-2341</b>      |
| Paper No                              | Paper Code | Paper Name   | Day and Date         | Paper Time                   |
| MIC-301                               | 85363      | Biostatistics Bioinformatics & Scientific Writings | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b> |
| MIC-302                               | 85364      | Enzymology and Enzyme technology                   | Tuesday 13-06-2023   |                              |
| MIC-303                               | 85365      | Fermentation Technology                            | Wednesday 14-06-2023 |                              |
| MIC-304                               | 85366      | Quality Control Microbiology                       | Thursday 15-06-2023  |                              |

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

|                                      |            |  |                      |                              |
|--------------------------------------|------------|--|----------------------|------------------------------|
| <b>New Revised From Oct2020 Exam</b> |            | M.Sc Part-II Sem-III General MICROBIOLOGY -        |                      | <b>Course code-205</b>       |
| Paper No                             | Paper Code | Paper Name   | Day and Date         | Paper Time                   |
| MIC-301                              | 80530      | Biostatistics Bioinformatics & Scientific Writings | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b> |
| MIC-302                              | 80531      | Enzymolgy and Enzyme technology                    | Tuesday 13-06-2023   |                              |
| MIC-303                              | 80532      | Fermentation Technology                            | Wednesday 14-06-2023 |                              |
| MIC-304                              | 80533      | Quality Control Microbiology                       | Thursday 15-06-2023  |                              |

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

|                         |  |                              |                      |                               |
|-------------------------|--|------------------------------|----------------------|-------------------------------|
| <b>Course code-2341</b> | M.Sc Part-II Sem-IV General MICROBIOLOGY |                              |                      | <b>From March 2023 Exam</b>   |
| Paper No                | Paper Code                               | Paper Name                   | Day and Date         | Paper Time                    |
| MIC-401                 | 86684                                    | Food and Dairy Microbiology  | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |
| MIC-402                 | 86685                                    | Industrial Waste Management  | Tuesday 13-06-2023   |                               |
| MIC-403                 | 86686                                    | Recombinat DNA Technology    | Wednesday 14-06-2023 |                               |
| MIC-404                 | 86687                                    | Quality Control Microbiology | Thursday 15-06-2023  |                               |

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

| <b>Course code-205</b> |            | <b>M.Sc Part-II Sem-IV General MICROBIOLOGY</b> |                      | <b>From March 2021 Exam</b>   |
|------------------------|------------|---|----------------------|-------------------------------|
| Paper No               | Paper Code | Paper Name                                      | Day and Date         | Paper Time                    |
| MIC-401                | 81634      | Food and Dairy Microbiology                     | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b> |
| MIC-402                | 81635      | Industrial Waste Management                     | Tuesday 13-06-2023   |                               |
| MIC-403                | 81636      | Recombinat DNA Technology                       | Wednesday 14-06-2023 |                               |
| MIC-404                | 81637      | Quality Control Microbiology                    | Thursday 15-06-2023  |                               |

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

| <b>Course code-2341</b> |  | <b>M.Sc. Part-II Sem-III Geology</b> |                      | <b>New Revised From Oct- 2022 Exam</b> |
|-------------------------|--|--------------------------------------|----------------------|--|
| Paper No                | Paper Code                             | Paper Name                           | Day and Date         | Paper Time                             |
| CC-301                  | 85367                                  | Hydrogeology                         | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b>           |
| CCS-302                 | 85368                                  | Geophysics and Exploration Methods   | Tuesday 13-06-2023   |  |
| CCS-303                 | 85369                                  | Geochemistry                         | Wednesday 14-06-2023 |  |
| DSE-304                 | <b>Choose Any One of the Following</b> |                                      | Thursday 15-06-2023  |  |
|                         | 85370                                  | Gemology & Industrial Mineralogy     |                      |  |
|                         | 85371                                  | Mining Geology                       |                      |  |
|                         | 85372                                  | Marine Geology                       |                      |  |
|                         | 85373                                  | Geoinformatics                       |                      |  |

| <b>Course code-205</b> |  | <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 Time                             |
| CC-301                 | 80520                                  | Hydrogeology                         | Monday 12-06-2023    | <b>From 2.30pm to 5.30pm</b>           |
| CCS-302                | 80521                                  | Geophysics and Exploration Methods   | Tuesday 13-06-2023   |  |
| CCS-303                | 80522                                  | Geochemistry                         | Wednesday 14-06-2023 |  |
| DSE-304                | <b>Choose Any One of the Following</b> |                                      | Thursday 15-06-2023  |  |
|                        | 80523                                  | Gemmology & Industrial Mineralogy    |                      |  |
|                        | 80524                                  | Mining Geology                       |                      |  |
|                        | 80525                                  | Marine Geology                       |                      |  |
|                        | 80526                                  | Geoinformatics                       |                      |  |

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

| <b>Course code-2341</b> |            | <b>M.Sc. Part-II Sem-IV Geology</b>   |                      | <b>New Revised From March 2023</b> |
|-------------------------|------------|---------------------------------------|----------------------|------------------------------------|
| Paper No                | Paper Code | Paper Name                            | Day and Date         | Paper Time                         |
| XIII                    | 86690      | Engineering Geology and Geotechniques | Monday 12-06-2023    | <b>From 10.30am to 1.30pm</b>      |
| XIV                     | 86691      | Natural Resource Management           | Tuesday 13-06-2023   |                                    |
| XV                      | 86692      | Environmental Geology                 | Wednesday 14-06-2023 |                                    |

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

| <b>Course code-205</b>              |                   |                                       |                      | <b>New Revised From</b>               |
|-------------------------------------|-------------------|---------------------------------------|----------------------|---------------------------------------|
| <b>M.Sc. Part-II Sem-IV Geology</b> |                   |                                       |                      | <b>March2021</b>                      |
| <b>Paper No</b>                     | <b>Paper Code</b> | <b>Paper Name</b>                     | <b>Day and Date</b>  | <b>Paper Time</b>                     |
| XIII                                | 81626             | Engineering Geology and Geotechniques | Monday 12-06-2023    | <b>From 10.30am<br/>to<br/>1.30pm</b> |
| XIV                                 | 81627             | Natural Resource Management           | Tuesday 13-06-2023   |                                       |
| XV                                  | 81628             | Environmental Geology                 | Wednesday 14-06-2023 |                                       |

**Note:- In Case of any Query found in respective Question Paper ,Student shall communicate thesame 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**

**s/d**

**Vidyanagar,  
Kolhapur-416004  
Date :-12-05-2023**

**Dr. Ajitsinh N Jadhav  
Director  
Board of Examinations And Evaluation**

