



## SHIVAJI UNIVERSITY KOLHAPUR

**Circular No.105 Summer Session Online March/April 2021 to be held in August/ September 2021 Revised Final Programme of M.Sc. (Course Code 205), M.Sc.Tech. (Mathematic) Part-I Sem-II, III, IV, & V (Course Code 252) Examination April-2021**

**INSTRUCTIONS:** Common instruction as per Circular No. SU/Appointment/RVC//612 dated 14-07-2021, and also available in University website [www.unishivaji.ac.in](http://www.unishivaji.ac.in).

1. The Online examination schedule will be conducted in following order

### M.Sc. Physics

| <b>Branch Code- PHYSICS ( C.B.C.S.) From Oct--2019</b> |                   |                          |                         |  |
|--|-------------------|--------------------------|-------------------------|--|
| <b>Part I :- Sem.-I</b>                                |                   |                          |                         |  |
| <b>PAPER NO.</b>                                       | <b>PAPER CODE</b> | <b>PAPER NAME</b>        | <b>DAY &amp; DATE</b>   | <b>Session-II</b>  |
| I  | 74934             | Mathematical Physics     | 29-09-2021<br>Wednesday | <b>From<br/>12.30 p.m.<br/><br/>to<br/><br/>01.30 p.m.</b> |
| II   | 74935             | Classical Mechanics      | 30-09-2021<br>Thursday  |  |
| III  | 74936             | Quantum Mechanics-I      | 01-10-2021<br>Friday    |  |
| IV   | 74937             | Condensed Matter Physics | 04-10-2021<br>Monday    |  |

| <b>Branch Code - Physics ( C.B.C.S.) From April-2020</b> |                   |                            |                         |   |
|--|-------------------|----------------------------|-------------------------|---|
| <b>Part I :- Sem.-II</b>                                 |                   |                            |                         |   |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b> | <b>PAPER NAME</b>          | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>   |
| V  | 79543             | Quantum Mechanics-II       | 29-09-2021<br>Wednesday | <b>From<br/>04.30 p.m.<br/><br/>to<br/><br/>05.30 p.m</b> |
| VI   | 79544             | Statistical Mechanics      | 30-09-2021<br>Thursday  |   |
| VII  | 79545             | Electrodynamics            | 01-10-2021<br>Friday    |   |
| VIII   | 79546             | Atomic & Molecular Physics | 04-10-2021<br>Monday    |   |

**M.Sc. Physics [ C.B.C.S. ]Old**

| <b>Branch Code - Physics ( C.B.C.S.) Old</b> |                   |  | <b>From Oct-2019</b>    |  |
|--|-------------------|--|-------------------------|--|
| <b>Part II :- Sem.-III</b>                   |                   |  |                         |  |
| <b>PAPER NO.</b>                             | <b>PAPER CODE</b> | <b>PAPER NAME</b>  | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                                |
| <b>IX</b>                                    | 74677             | Nuclear and Particle Physics   | 17-08-2021<br>Tuesday   | <b>From<br/>12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
| <b>Choose Any One Of The Following Paper</b> |                   |  |                         | <b>From 12.30<br/>p.m.<br/>to<br/>01.30 p.m.</b> |
|  | 74650             | Data Analysis and Statistical Software                                       | 18-08-2021<br>Wednesday |  |
|  | 74651             | Numerical Computing Using MATLAB   |                         |  |
|  | 74652             | Computational Programming using Mathematica                                  |                         |  |
|  | 74653             | Numerical Methods and Programming  |                         |  |
|  | 74654             | MATLAB Programming and Applications  |                         |  |
|  | 74655             | Electronic Devices   |                         |  |
| <b>Choose Any One Of The Following Paper</b> |                   |  |                         | <b>From<br/>12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
|  | 74656             | Energy Science-I ( The New Energy Technology)                                | 20-08-2021<br>Friday    |  |
|  | 74657             | Material Science-I (Imperfection in Crystals)                                |                         |  |
|  | 74658             | Space Science-I (Stellar Evolution :Birth, Evolution and Death of the Stars) |                         |  |
|  | 74659             | Solid State Physics-I (Thin Solid Films: Deposition and Properties)          |                         |  |
|  | 74660             | Theoretical Physics- I (Fundamentals of Plasma Physics)                      |                         |  |
|  | 75052             | Modern Optics-I (Laser Physics)  |                         |  |
| <b>Choose Any One Of The Following Paper</b> |                   |  |                         | <b>From<br/>12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
|  | 74661             | Energy Science-II ( Solar Thermal Devices)                                   | 21-08-2021<br>Saturday  |  |
|  | 74662             | Material Science-II (Properties Of Materials)                                |                         |  |
|  | 74663             | Space Science-II (Astrophysics of the Sun )                                  |                         |  |
|  | 74664             | Solid State Physics-II (Semiconductor Physics)                               |                         |  |
|  | 74665             | Theoretical Physics- II (Introduction to General Relativity)                 |                         |  |
|  | 75073             | Modern Optics-II (Nonlinear Optics & Fiber Optics)                           |                         |  |

**M.Sc. Physics [ C.B.C.S. ]New**

| <b>Branch Code - Physics ( C.B.C.S.) From Oct-2020</b> |                   |   |                         |  |
|--|-------------------|---|-------------------------|--|
| <b>Part II :- Sem.-III</b>                             |                   |   |                         |  |
| <b>PAPER NO.</b>                                       | <b>PAPER CODE</b> | <b>PAPER NAME</b>   | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                                |
|  | 80820             | Nuclear and Particle Physics                                      | 17-08-2021<br>Tuesday   | <b>From<br/>12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
| <b>Choose Any One Of The Following Paper</b>           |                   |   |                         | <b>From<br/>12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
|  | 81116             | Data Analysis and Statistical Software(DASF)                      | 18-08-2021<br>Wednesday |  |
|  | 81117             | Numerical Computing Using MATLAB(NCU)                             |                         |  |
|  | 81118             | Computational Programming using Mathematica (CP)                  |                         |  |
|  | 81236             | Thin Film Deposition Technology(TFDT)                             |                         |  |
| <b>Choose Any One Of The Following Paper</b>           |                   |   |                         | <b>From<br/>12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
|  | 81092             | The New Energy Technologies(TNET)                                 | 20-08-2021<br>Friday    |  |
|  | 81093             | Imperfection in Crystals(IIC)                                     |                         |  |
|  | 81096             | Thin Solid Films : Deposition And Properties(TSFDAP)              |                         |  |
|  | 81097             | Fundamentals of Plasma Physics (FOPP)                             |                         |  |
|  | 81094             | Laser Physics(LP)   |                         |  |
|  | 81095             | Stellar Evolution : Birth Evolution and Death of the stars(SEBDS) |                         |  |
| <b>Choose Any One Of The Following Paper</b>           |                   |   |                         | <b>From<br/>12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
|  | 81098             | Solar Thermal Devices (STD)                                       | 21-08-2021<br>Saturday  |  |
|  | 81099             | Properties Of Materials (POM)                                     |                         |  |
|  | 81101             | Astrophysics of the Sun (AOTS)                                    |                         |  |
|  | 81102             | Semi Conductor Physics(SP)  |                         |  |
|  | 81103             | Introduction to General Relativity-I                              |                         |  |
|  | 81100             | Nonlinear Optics and Fiber ptics(CTHND2)                          |                         |  |

**M.Sc. Physics [ C.B.C.S.]Old**

| <b>Branch Code - PHYSICS ( C.B.C.S.)</b>       |                   | <b>From-(March-2020)</b>  |                         |                                 |
|--|-------------------|---|-------------------------|---------------------------------|
|  |                   | <b>Part II :- Semester IV</b>   |                         |                                 |
| <b>PAPER NO.</b>                               | <b>PAPER CODE</b> | <b>PAPER NAME</b>   | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>               |
| X  | 79340             | Experimental Techniques   | 17-08-2021<br>Tuesday   | 04.30. p.m.<br>To<br>05.30 p.m. |
| <b>Choose Any One of The Following Subject</b> |                   |   |                         | 04.30. p.m.<br>To<br>05.30 p.m. |
|  | 68287             | Modern Analytical Techniques  | 18-08-2021<br>Wednesday |                                 |
|  | 79343             | Electronic Devices  |                         |                                 |
|  | 79341             | Numerical Methods And Programming                                     |                         |                                 |
|  | 79342             | MATI AB Programming and Applications                                  |                         |                                 |
|  | 79515             | Media And Society   |                         |                                 |
| <b>Choose Any One of The Following Subject</b> |                   |   |                         | 04.30. p.m.<br>To<br>05.30 p.m. |
|  | 79344             | Renewable Energy Resources  | 20-08-2021<br>Friday    |                                 |
|  | 79346             | Special Materials   |                         |                                 |
|  | 79348             | Molecular Spectroscopy  |                         |                                 |
|  | 79350             | Magnetospheric Plasma Dynamics  |                         |                                 |
|  | 79352             | Physical Properties of Solids   |                         |                                 |
|  | 79354             | Interaction of Electromagnetic waves with<br>Electron Beams & Plasmas |                         |                                 |
| <b>Choose Any One of The Following Subject</b> |                   |   |                         | 04.30. p.m.<br>To<br>05.30 p.m. |
|  | 79345             | Energy Conversion Devices   | 21-08-2021<br>Saturday  |                                 |
|  | 79347             | Nanostructured Materials  |                         |                                 |
|  | 79349             | Holography and Its Applications                                       |                         |                                 |
|  | 79351             | Ionospheric and Space Weather   |                         |                                 |
|  | 79353             | Energy Conversion and Storage Devices                                 |                         |                                 |
|  | 79355             | Introduction to Quantum Field Theory                                  |                         |                                 |

**M.Sc. Physics [ C.B.C.S.] New**

| <b>Branch Code - PHYSICS ( C.B.C.S.)</b>       |                   |  | <b>From-(March-2021)</b> |                                 |
|--|-------------------|--|--------------------------|---------------------------------|
| <b>Part II :- Semester IV</b>                  |                   |  |                          |                                 |
| <b>PAPER NO.</b>                               | <b>PAPER CODE</b> | <b>PAPER NAME</b>  | <b>DAY &amp; DATE</b>    | <b>Session-IV</b>               |
| X  | 83111             | Experimental Techniques  | 17-08-2021<br>Tuesday    | 04.30. p.m.<br>To<br>05.30 p.m. |
| <b>Choose Any One of The Following Subject</b> |                   |  |                          |                                 |
|  | 83221             | Numerical Methods And Programming                                  | 18-08-2021<br>Wednesday  | 04.30. p.m.<br>To<br>05.30 p.m. |
|  | 83222             | MATI AB Programming and Applications                               |                          |                                 |
|  | 83223             | Energy Conversion and Storage Devices                              |                          |                                 |
|  | 83224             | MATI AB Programming and Applications                               |                          |                                 |
| <b>Choose Any One of The Following Subject</b> |                   |  |                          |                                 |
|  | 83080             | Renewable Energy Resources   | 20-08-2021<br>Friday     | 04.30. p.m.<br>To<br>05.30 p.m. |
|  | 83081             | Special Materials  |                          |                                 |
|  | 83082             | Molecular Spectroscopy   |                          |                                 |
|  | 83083             | Magnetospheric Plasma Dynamics                                     |                          |                                 |
|  | 83084             | Physical Properties of Solids                                      |                          |                                 |
|  | 83085             | Interaction of Electromagnetic waves with Electron Beams & Plasmas |                          |                                 |
| <b>Choose Any One of The Following Subject</b> |                   |  |                          |                                 |
|  | 83086             | Energy Conversion Devices  | 21-08-2021<br>Saturday   | 04.30. p.m.<br>To<br>05.30 p.m. |
|  | 83087             | Nanostructured Materials   |                          |                                 |
|  | 83088             | Holography and Its Applications                                    |                          |                                 |
|  | 83089             | Ionospheric and Space Weather                                      |                          |                                 |
|  | 83090             | Semiconductor Devices  |                          |                                 |
|  | 83091             | Introduction to Quantum Field Theory                               |                          |                                 |

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

| <b>Branch Code- Statistics ( C.B.C.S.)</b> |                   |                       | <b>From Oct--2019</b>   |  |
|--|-------------------|-----------------------|-------------------------|--|
| <b>Part I :- Sem.-I</b>                    |                   |                       |                         |  |
| <b>PAPER NO.</b>                           | <b>PAPER CODE</b> | <b>PAPER NAME</b>     | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                                |
| I  | 74907             | Real Analysis         | 29-09-2021<br>Wednesday | <b>From<br/>12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
| II   | 74908             | Linear Algebra        | 30-09-2021<br>Thursday  |  |
| III  | 74909             | Distribution Theory   | 01-10-2021<br>Friday    |  |
| IV   | 74910             | Estimation Theory     | 04-10-2021<br>Monday    |  |
| V  | 74911             | Statistical Computing | 05-10-2021<br>Tuesday   |  |

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

| <b>Branch Code – STATISTICS( C.B.C.S.) From April-2020</b> |                   |   |                         |                                 |
|--|-------------------|---|-------------------------|---------------------------------|
| <b>Part I :- Sem.-II</b>                                   |                   |   |                         |                                 |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b> | <b>PAPER NAME</b>                       | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>               |
| VI   | 74913             | Probability Theory                      | 29-09-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m. |
| VII  | 74914             | Theory of Testing of Hypothesis         | 30-09-2021<br>Thursday  |                                 |
| VIII   | 74915             | Regression Analysis                     | 01-10-2021<br>Friday    |                                 |
| IX   | 74916             | Design and Analysis of Experiments      | 04-10-2021<br>Monday    |                                 |
| X  | 74917             | Sampling Theory and Official Statistics | 05-10-2021<br>Tuesday   |                                 |

**M.Sc. Statistics [ C.B.C.S. ]Old**

| <b>Branch Code - STATISTICS ( C.B.C.S.) Old From Oct-2017</b>           |                   |   |                         |                                 |
|---|-------------------|---|-------------------------|---------------------------------|
| <b>Part II :- Sem.-III</b>  |                   |   |                         |                                 |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>                               | <b>DAY &amp; DATE</b>   | <b>Session-II</b>               |
|   | 69604             | Asymptotic Inference                            | Tuesday<br>17-08-2021   | 12.30. p.m.<br>To<br>01.30 p.m. |
|   | 69605             | Elementary Stochastic Processes                 | Wednesday<br>18-08-2021 |                                 |
|   | 69606             | Planning and Analysis of Industrial Experiments | Tuesday<br>24-08-2021   |                                 |
| <b>Paper No. XIV &amp; XV :- Choose Any Two of the Following Papers</b> |                   |   |                         |                                 |
|   | 69609             | Reliability Theory                              | Wednesday<br>25-08-2021 | 12.30. p.m.<br>To<br>01.30 p.m. |
|   | 69614             | Statistical Methods in Clinical Trials          |                         |                                 |
|   | 69610             | Regression Analysis                             | Friday<br>01-10-2021    | 04.30. p.m.<br>To<br>05.30 p.m. |

**M.Sc. Statistics [ C.B.C.S. ]New**

| <b>Branch Code - STATISTICS ( C.B.C.S.) From Oct-2020</b> |                   |                          |                         |                                 |
|---|-------------------|--------------------------|-------------------------|---------------------------------|
| <b>Part II :- Sem.-III</b>                                |                   |                          |                         |                                 |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>        | <b>DAY &amp; DATE</b>   | <b>Session-II</b>               |
| XI  | 80980             | Asymptotic Inference     | Tuesday<br>17-08-2021   | 12.30. p.m.<br>To<br>01.30 p.m. |
| <b>Choose Any One of the Following</b>                    |                   |                          |                         | 12.30. p.m.<br>To<br>01.30 p.m. |
| XII   | 80983             | Stochastic Processes     | Wednesday<br>18-08-2021 |                                 |
|   | 80984             | Functional Data Analysis |                         |                                 |
| <b>Choose Any One of the Following</b>                    |                   |                          |                         | 12.30. p.m.<br>To<br>01.30 p.m. |
| XIII  | 80985             | Data Mining              | Friday<br>20-08-2021    |                                 |
|   | 80986             | Artificial Intelligence  |                         |                                 |
| <b>Choose Any One of the Following</b>                    |                   |                          |                         | 12.30. p.m.<br>To<br>01.30 p.m. |
| XIV   | 80987             | Time Series Analysis     | Saturday<br>21-08-2021  |                                 |
|   | 80988             | Statistical Ecology      |                         |                                 |
| <b>Choose Any One of the Following</b>                    |                   |                          |                         | 12.30. p.m.<br>To<br>01.30 p.m. |
| XV  | 80981             | Multivariate Analysis    | Monday<br>23-08-2021    |                                 |
|   | 80982             | Bayesian Inference       |                         |                                 |
|   | 81347             | Regression Analysis      | Friday<br>01-10-2021    | 04.30. p.m.<br>To<br>05.30 p.m. |

**M.Sc. Statistics [ C.B.C.S. ]old**

| <b>Branch Code - STATISTICS ( C.B.C.S.)</b>                               |                   |                             | <b>From April-2018</b>  |                                  |
|---|-------------------|-----------------------------|-------------------------|----------------------------------|
| <b>Part II :- Sem.-IV</b>   |                   |                             |                         |                                  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>           | <b>DAY &amp; DATE</b>   | <b>Session-IV &amp; II</b>       |
| XVI   | 71107             | Optimization Techniques(OT) | 21-08-2021<br>Saturday  | 04.30. p.m.<br>To<br>05.30 p.m.. |
| <b>Paper No. XVII &amp; XX :- Choose Any Four of the Following Papers</b> |                   |                             |                         |                                  |
|   | 71109             | Generalized Linear Models   | 17-08-2021<br>Tuesday   | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 71111             | Data Mining (DM)            | 20-08-2021<br>Friday    | 12.30. p.m.<br>To<br>01.30 p.m.  |
|   | 71110             | Survival Analysis(SA)       | 18-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 71113             | Time Series Analysis (TSA)  | 21-08-2021<br>Saturday  | 12.30. p.m.<br>To<br>01.30 p.m.  |
|   | 71112             | Statistical Quality Control | 23-08-2021<br>Monday    | 04.30. p.m.<br>To<br>05.30 p.m.. |

**M.Sc. Statistics [ C.B.C.S. ]New**

| <b>Branch Code - STATISTICS ( C.B.C.S.)</b> |                   |                             | <b>From April-2021</b>  |                                  |
|---|-------------------|-----------------------------|-------------------------|----------------------------------|
| <b>Part II :- Sem.-IV</b>                   |                   |                             |                         |                                  |
| <b>PAPER NO.</b>                            | <b>PAPER CODE</b> | <b>PAPER NAME</b>           | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>                |
| <b>XVI</b>                                  | 83040             | Generalized Linear Models   | 17-08-2021<br>Tuesday   | 04.30. p.m.<br>To<br>05.30 p.m.. |
| <b>Choose Any One of the Following</b>      |                   |                             |                         |                                  |
| <b>XVII</b>                                 | 83041             | Survival Analysis           | 18-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 83042             | Actuarial statistics        |                         |                                  |
| <b>Choose Any One of the Following</b>      |                   |                             |                         |                                  |
|   | 83043             | Biostatistics               | 20-08-2021<br>Friday    | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 83044             | Econometrics                |                         |                                  |
| <b>Choose Any One of the Following</b>      |                   |                             |                         |                                  |
|   | 83039             | Optimization techniques     | 21-08-2021<br>Saturday  | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 83175             | Circular Data analysis      |                         |                                  |
| <b>Choose Any One of the Following</b>      |                   |                             |                         |                                  |
|   | 83045             | Spatial data analysis       | 23-08-2021<br>Monday    | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 83046             | Statistical quality control |                         |                                  |

**M.Sc. Applied Statistics & Informatics**

| <b>Branch Code- Applied Statistics &amp; Informatics ( C.B.C.S.)</b> |                   |                                      | <b>From Oct--2019</b>   |  |
|--|-------------------|--------------------------------------|-------------------------|--|
| <b>Part I :- Sem.-I</b>  |                   |                                      |                         |  |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b> | <b>PAPER NAME</b>                    | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                                |
| I  | 74974             | Fundamentals Of Computer Programming | 29-09-2021<br>Wednesday | <b>From<br/>12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
| II   | 74975             | Linear Algebra                       | 30-09-2021<br>Thursday  |  |
| III  | 74976             | Distribution Theory                  | 01-10-2021<br>Friday    |  |
| IV   | 74977             | Estimation Theory                    | 04-10-2021<br>Monday    |  |
| V  | 74978             | Statistical Computing                | 05-10-2021<br>Tuesday   |  |



**M.Sc. Applied Statistics & Informatics [ C.B.C.S. ]New**

| <b>Branch Code - APPLIED STATISTICS &amp; INFORMATICS ( C.B.C.S.) New From April-2020</b> |                   |   |                         |                                  |
|---|-------------------|---|-------------------------|----------------------------------|
| <b>Part I :- Sem.-II</b>  |                   |   |                         |                                  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>                       | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>                |
| V   | 79516             | Advanced Data Structure with C++        | 29-09-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m.. |
| VI  | 79517             | Theory of Testing of Hypothesis         | 30-09-2021<br>Thursday  |                                  |
| VII   | 79518             | Regression Analysis                     | 01-10-2021<br>Friday    |                                  |
| VIII  | 79519             | Design and Analysis of Experiments      | 04-10-2021<br>Monday    |                                  |
| IX  | 79520             | Sampling Theory and Official Statistics | 05-10-2021<br>Tuesday   |                                  |

**M.Sc. Applied Statistics & Informatics [ C.B.C.S. ]Old**

| <b>Branch Code - APPLIED STATISTICS &amp; INFORMATICS ( C.B.C.S.)Old From Oct-2019</b> |                   |   |                         |                                 |
|--|-------------------|---|-------------------------|---------------------------------|
| <b>Part II :- Sem.-III</b>   |                   |   |                         |                                 |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b> | <b>PAPER NAME</b>                               | <b>DAY &amp; DATE</b>   | <b>Session-II &amp; IV</b>      |
| X  | 74593             | Data Base Management System                     | 17-08-2021<br>Tuesday   | 12.30. p.m.<br>To<br>01.30 p.m. |
| XI   | 74594             | Elementary Stochastic Processes                 | 18-08-2021<br>Wednesday |                                 |
| XII  | 74595             | Planning And Analysis Of Industrial Experiments | Tuesday<br>24-08-2021   |                                 |
| XIII   | 74596             | Design And Analysis Of Sample Surveys           | 24-08-2021<br>Tuesday   |                                 |
| <b>Choose Any One of the Following Papers</b>  |                   |   |                         | 12.30. p.m.<br>To<br>01.30 p.m. |
| XIV  | 74598             | Reliability Theory                              | 25-08-2021<br>Wednesday |                                 |
|  | 74599             | Regression Analysis                             | Friday<br>01-10-2021    |                                 |

**M.Sc. Applied Statistics & Informatics [ C.B.C.S. ]New**

| <b>Branch Code - APPLIED STATISTICS&amp; INFORMATICS ( C.B.C.S.) NewFrom Oct-2020</b> |                   |                             |                       |                                 |
|---|-------------------|-----------------------------|-----------------------|---------------------------------|
| <b>Part II :- Sem.-III</b>  |                   |                             |                       |                                 |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>           | <b>DAY &amp; DATE</b> | <b>Session-II &amp; IV</b>      |
| <b>X</b>  | 80591             | Data Base Management System | 17-08-2021<br>Tuesday | 12.30. p.m.<br>To<br>01.30 p.m  |
| <b>Choose Any One of the Following</b>  |                   |                             |                       |                                 |
| XI  | 80594             | Stochastic Processes        | 18-08-2021            |                                 |
|   | 80595             | Functional Data Analysis    | Wednesday             |                                 |
| <b>Choose Any One of the Following</b>  |                   |                             |                       | 12.30. p.m.<br>To<br>01.30 p.m  |
| XII   | 80596             | Data Mining                 | 20-08-2021            |                                 |
|   | 80597             | Artificial Intelligence     | Friday                |                                 |
| <b>Choose Any One of the Following</b>  |                   |                             |                       | 12.30. p.m.<br>To<br>01.30 p.m  |
| XIII  | 80598             | Time Series Analysis        | 21-08-2021            |                                 |
|   | 80599             | Statistical Ecology         | Saturday              |                                 |
| <b>Choose Any One of the Following</b>  |                   |                             |                       |                                 |
| XIV   | 80592             | Multivariate Analysis       | 23-08-2021<br>Monday  | 12.30. p.m.<br>To<br>01.30 p.m  |
|   |                   | 80593                       |                       |                                 |
|   | 81347             | Regression Analysis         | 01-10-2021<br>Friday  | 04.30. p.m.<br>To<br>05.30 p.m. |

**M.Sc. APPLIED STATISTICS & INFORMATICS ( C.B.C.S.) Old**

| <b>Branch Code - APPLIED STATISTICS &amp; INFORMATICS ( C.B.C.S.) From April-2020</b> |                   |                             |                         |                                  |
|---|-------------------|-----------------------------|-------------------------|----------------------------------|
| <b>Part II :- Sem.-IV</b>   |                   |                             |                         |                                  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>           | <b>DAY &amp; DATE</b>   | <b>Session-II &amp; IV</b>       |
| <b>XV</b>   | 79378             | Optimization Techniques     | 21-08-2021<br>Saturday  | 04.30. p.m.<br>To<br>05.30 p.m.. |
| <b>XVI</b>  | 79379             | Python for Data Science     | 24-08-2021<br>Tuesday   |                                  |
| <b>Choose Any Three of the Following Papers (Paper No-XVII to XX)</b>                 |                   |                             |                         |                                  |
|   | 79381             | Generalized Linear Models   | 17-08-2021<br>Tuesday   | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 79387             | Data Mining                 | 20-08-2021<br>Friday    | 12.30. p.m.<br>To<br>01.30 p.m   |
|   | 79382             | Survival Analysis           | 18-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 79384             | Time Series Analysis        | 21-08-2021<br>Saturday  | 12.30. p.m.<br>To<br>01.30 p.m   |
|   | 79383             | Statistical Quality Control | 23-08-2021<br>Monday    | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 79385             | Statistical Ecology         | 25-08-2021<br>Wednesday | 12.30. p.m.<br>To<br>01.30 p.m   |
|   | 79386             | Econometrics                | 20-08-2021<br>Friday    | 04.30. p.m.<br>To<br>05.30 p.m.. |

**M.Sc. APPLIED STATISTICS & INFORMATICS [ C.B.C.S. ] New**

| <b>Branch Code - APPLIED STATISTICS &amp; INFORMATICS ( C.B.C.S.)</b> |                   |                             |                         |                                  |
|---|-------------------|-----------------------------|-------------------------|----------------------------------|
| <b>From April-2021</b>  |                   |                             |                         |                                  |
| <b>Part II :- Sem.-IV</b>   |                   |                             |                         |                                  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>           | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>                |
| <b>XVI</b>  | 82941             | Generalized Linear Models   | 17-08-2021<br>Tuesday   | 04.30. p.m.<br>To<br>05.30 p.m.. |
| <b>Choose Any One of the Following</b>                                |                   |                             |                         |                                  |
| <b>XVII</b>   | 82942             | Survival Analysis           | 18-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 83042             | Actuarial statistics        |                         |                                  |
| <b>Choose Any One of the Following</b>                                |                   |                             |                         |                                  |
| <b>XVIII</b>  | 83238             | Biostatistics               | 20-08-2021<br>Friday    | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 82946             | Econometrics                |                         |                                  |
| <b>Choose Any One of the Following</b>                                |                   |                             |                         |                                  |
| <b>XIX</b>  | 82939             | Python for Data Science     | Tuesday<br>24-08-2021   | 04.30. p.m.<br>To<br>05.30 p.m.. |
| <b>Choose Any One of the Following</b>                                |                   |                             |                         |                                  |
| <b>XX</b>   | 83045             | Spatial data analysis       | 23-08-2021<br>Monday    | 04.30. p.m.<br>To<br>05.30 p.m.. |
|   | 82943             | Statistical quality control |                         |                                  |

**M.Sc. Environmental Science**

| <b>Branch Code- Environmental Science ( C.B.C.S.)</b> |                   |  | <b>From Oct-2019</b>    |  |
|---|-------------------|--|-------------------------|--|
| <b>Part I :- Sem.-I</b>                               |                   |  |                         |  |
| <b>PAPER NO.</b>                                      | <b>PAPER CODE</b> | <b>PAPER NAME</b>                                | <b>DAY &amp; DATE</b>   | <b>Session-II</b>  |
| I   | 74901             | Introduction To Environmental Science            | 29-09-2021<br>Wednesday | <b>From<br/>12.30 p.m.<br/><br/>to<br/><br/>01.30 p.m.</b> |
| II  | 74902             | Environmental Chemistry                          | 30-09-2021<br>Thursday  |  |
| III   | 74903             | Environmental Biology                            | 01-10-2021<br>Friday    |  |
| IV  | 74904             | Information Technology In Environmental Sciences | 04-10-2021<br>Monday    |  |

**M.Sc. Environmental Science ( C.B.C.S. )New**

| Branch Code- ENVIRONMENTAL SCIENCE (C.B.C.S.) |            |   | March- 2020             |                                  |
|---|------------|---|-------------------------|----------------------------------|
| <b>Part I :- Sem.-II</b>                      |            |   |                         |                                  |
| PAPER NO.                                     | PAPER CODE | PAPER NAME                                  | DAY & DATE              | Session-IV                       |
| V   | 79477      | Environmental Engineering                   | 29-09-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m.. |
| VI  | 79478      | Environmental Pollution and control         | 30-09-2021<br>Thursday  |                                  |
| VII   | 79479      | Environmental Geosciences and Climatology   | 01-10-2021<br>Friday    |                                  |
| VIII  | 79480      | Energy studies                              | 04-10-2021<br>Monday    |                                  |
| IX  | 79481      | Environmental Monitoring and Energy Studies | 05-10-2021<br>Tuesday   |                                  |

**M.Sc. Environmental Science ( C.B.C.S. )Old**

| Branch Code- ENVIRONMENTAL SCIENCE (C.B.C.S.) |            |  | from Oct 2014           |  |
|---|------------|--|-------------------------|--|
| <b>Part II :- Sem.-III</b>                    |            |  |                         |  |
| PAPER NO.                                     | PAPER CODE | PAPER NAME   | DAY & DATE              | Session-II                                   |
| X   | 64165      | Natural Resources and their Management             | 25-08-2021<br>Wednesday | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
| XI  | 64166      | Environmental Statistics and Computer Applications | 26-08-2021<br>Thursday  |  |
| XII   | 64167      | Environmental Policy and legislation               | 27-08-2021<br>Friday    |  |
| XIII  | 64168      | Environmental Toxicology and Public Health         | 28-08-2021<br>Saturday  |  |
| XIV   | 64169      | Vermicomposting                                    | 30-08-2021<br>Monday    |  |

**M.Sc. Environmental Science ( C.B.C.S. ) New**

| Branch Code- ENVIRONMENTAL SCIENCE (C.B.C.S.) |            |  | from Oct 2020           |  |
|---|------------|--|-------------------------|--|
| <b>Part II :- Sem.-III</b>                    |            |  |                         |  |
| PAPER NO.                                     | PAPER CODE | PAPER NAME   | DAY & DATE              | Session-II                                   |
| X   | 80582      | Natural Resources and their Conservation           | 25-08-2021<br>Wednesday | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m.</b> |
| XI  | 80583      | Environmental Statistics and Computer Applications | 26-08-2021<br>Thursday  |  |
| XII   | 80584      | Environmental Policy and Legislation               | 27-08-2021<br>Friday    |  |
| XIII  | 80585      | Environmental Toxicology and Public Health         | 28-08-2021<br>Saturday  |  |

**M.Sc. Environmental Science ( C.B.C.S. ) Old**

| Branch Code- ENVIRONMENTAL SCIENCE (C.B.C.S.) |            |   | From April-2015         |                                  |
|---|------------|---|-------------------------|----------------------------------|
| Part II :- Sem.-IV                            |            |   |                         |                                  |
| PAPER NO.                                     | PAPER CODE | PAPER NAME                                    | DAY & DATE              | Session-IV                       |
| XIII  | 65019      | Socio- Economic Aspects of Environment        | 25-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m.. |
| XIV   | 65020      | Environmental Hazards and Disaster Management | 26-08-2021<br>Thursday  |                                  |
| XV  | 65021      | Environmental Planning and Management         | 27-08-2021<br>Friday    |                                  |
| XVI   | 65022      | Environmental Biotechnology                   | 28-08-2021<br>Saturday  |                                  |

**M.Sc. Environmental Science ( C.B.C.S. ) New**

| Branch Code- ENVIRONMENTAL SCIENCE (C.B.C.S.) |            |   | From April-2021         |                                  |
|---|------------|---|-------------------------|----------------------------------|
| Part II :- Sem.-IV                            |            |   |                         |                                  |
| PAPER NO.                                     | PAPER CODE | PAPER NAME                                    | DAY & DATE              | Session-IV                       |
| XIII  | 83050      | Socio- Economic Aspects of Environment        | 25-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m.. |
| XIV   | 83051      | Environmental Hazards and Disaster Management | 26-08-2021<br>Thursday  |                                  |
| XV  | 83052      | Environmental Planning and Management         | 27-08-2021<br>Friday    |                                  |
| XVI   | 83053      | Environmental Biotechnology                   | 28-08-2021<br>Saturday  |                                  |
| XVII  | 83056      | Vermicomposting                               | 30-08-2021<br>Monday    |                                  |

**M.Sc. Food Science & Technology**

| Branch Code- Food Science& Technology ( C.B.C.S.) |            |  | From Oct-2019           |  |
|---|------------|--|-------------------------|--|
| Part I :- Sem.-I                                  |            |  |                         |  |
| PAPER NO.   | PAPER CODE | PAPER NAME                                   | DAY & DATE              | Session-II                                       |
| I   | 74919      | Principles Of Food Processing & Preservation | 29-09-2021<br>Wednesday | <b>From 12.30<br/>p.m.<br/>to<br/>01.30 p.m.</b> |
| II  | 74920      | Food Microbiology                            | 30-09-2021<br>Thursday  |  |
| III   | 74921      | Food Chemistry                               | 01-10-2021<br>Friday    |  |
| IV  | 74922      | Biochemistry And Nutrition                   | 04-10-2021<br>Monday    |  |

**M.Sc. Food Science & Technology [ C.B.C.S.]**

| <b>Branch Code- FOOD SCIENCE &amp; TECHNOLOGY ( C.B.C.S.) From April-2020</b> |                   |                                |                         |                                  |
|---|-------------------|--------------------------------|-------------------------|----------------------------------|
| Part I :- Sem.-II   |                   |                                |                         |                                  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>              | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>                |
| V   | 79374             | Fruit and Vegetable Technology | 29-09-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m.. |
| VI  | 79372             | Principles of Food Engineering | 30-09-2021<br>Thursday  |                                  |
| VII   | 79373             | Cereal and Legume Technology   | 01-10-2021<br>Friday    |                                  |
| VIII  | 79375             | Fermentation Technology        | 04-10-2021<br>Monday    |                                  |

**M.Sc. Food Science & Technology [ C.B.C.S.] Old**

| <b>Branch Code- FOOD SCIENCE &amp; TECHNOLOGY ( C.B.C.S.) From Oct-2014</b> |                   |   |                         |  |
|---|-------------------|---|-------------------------|--|
| Part II :- Sem.-III   |                   |   |                         |  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>                           | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                                |
| IX  | 64191             | Technology of Meat, Fish & Poultry Products | 25-08-2021<br>Wednesday | <b>From 12.30<br/>p.m.<br/>to<br/>01.30 p.m.</b> |
| X   | 64192             | Technology of Milk & Milk Products          | 26-08-2021<br>Thursday  |  |
| XI  | 64193             | Food Quality & Safety Management            | 27-08-2021<br>Friday    |  |
| XII   | 64194             | Food Additives, Contaminants & Toxicology   | 28-08-2021<br>Saturday  |  |

**M.Sc. Food Science & Technology [ C.B.C.S.] New**

| <b>Branch Code- FOOD SCIENCE &amp; TECHNOLOGY ( C.B.C.S.) From Oct-2020</b> |                   |   |                         |  |
|---|-------------------|---|-------------------------|--|
| Part II :- Sem.-III   |                   |   |                         |  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>                             | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                                |
|   | 80990             | Technology of Meat, Fish and Poultry Products | 25-08-2021<br>Wednesday | <b>From 12.30<br/>p.m.<br/>to<br/>01.30 p.m.</b> |
|   | 80991             | Technology of Milk and Milk Products          | 26-08-2021<br>Thursday  |  |
|   | 80993             | Food Quality and Safety Management            | 27-08-2021<br>Friday    |  |
|   | 80992             | Food Additives, Contaminants and Toxicology   | 28-08-2021<br>Saturday  |  |

**M.Sc. Food Science & Technology [ C.B.C.S.] Old**

| <b>Branch Code- FOOD SCIENCE &amp; TECHNOLOGY ( C.B.C.S.) From April-2015</b> |                   |   |                         |                                |
|---|-------------------|---|-------------------------|--------------------------------|
| Part II :- Sem.-IV  |                   |   |                         |                                |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>                           | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>              |
| XIII  | 65134             | Food Packaging                              | 30-08-2021<br>Monday    | 04.30. p.m.<br>To<br>05.30 p.m |
| XIV   | 65135             | Technology of Oilseeds & Fats               | 31-08-2021<br>Tuesday   |                                |
| XV  | 65136             | Food Biotechnology                          | 01-09-2021<br>Wednesday |                                |
| XVI   | 65137             | Post-Harvest Technology of Plantation Crops | 02-09-2021<br>Thursday  |                                |

### M.Sc. Food Science & Technology [ C.B.C.S.] New

| Branch Code- FOOD SCIENCE & TECHNOLOGY ( C.B.C.S.) From April-2021 |            |   |                         |                                |
|--|------------|---|-------------------------|--------------------------------|
|  |            | Part II :- Sem.-IV                          |                         |                                |
| PAPER NO.  | PAPER CODE | PAPER NAME                                  | DAY & DATE              | Session-IV                     |
| XIII   | 82952      | Food Packaging                              | 30-08-2021<br>Monday    | 04.30. p.m.<br>To<br>05.30 p.m |
| XIV  | 82949      | Technology of Oilseeds & Fats               | 31-08-2021<br>Tuesday   |                                |
| XV   | 82950      | Food Biotechnology                          | 01-09-2021<br>Wednesday |                                |
| XVI  | 82951      | Post-Harvest Technology of Plantation Crops | 02-09-2021<br>Thursday  |                                |

### M.Sc Alcohol Technology

#### M.Sc. Alcohol Technology [ C.B.C.S.] Old

| Branch Code- Alcohol Technology ( C.B.C.S.) From May--2017 |            |                        |                         |   |
|--|------------|------------------------|-------------------------|---|
|  |            | Part I :- Sem.-I       |                         |   |
| PAPER NO.  | PAPER CODE | PAPER NAME             | DAY & DATE              | Session-II                                    |
| I  | 68596      | Organic Chemistry      | 28-09-2021<br>Tuesday   | From 12.30<br>p.m.<br><br>to<br><br>01.30 p.m |
| II   | 68597      | Basic of Fermentation  | 29-09-2021<br>Wednesday |   |
| III  | 68598      | Alcohol Technology - I | 30-09-2021<br>Thursday  |   |
| IV   | 68599      | Microbiology – I       | 01-10-2021<br>Friday    |   |

#### M.Sc. Alcohol Technology [ C.B.C.S.] New

| Branch Code- Alcohol Technology ( C.B.C.S.) From Oct-2020 |            |                        |                         |   |
|---|------------|------------------------|-------------------------|---|
|   |            | Part I :- Sem.-I       |                         |   |
| PAPER NO.   | PAPER CODE | PAPER NAME             | DAY & DATE              | Session-II                                    |
| I   | 81082      | Alcohol Technology - I | 30-09-2021<br>Thursday  | From 12.30<br>p.m.<br><br>to<br><br>01.30 p.m |
| II  | 81083      | Microbiology           | 01-10-2021<br>Friday    |   |
| III   | 81084      | Bio-Chemistry          | 28-09-2021<br>Tuesday   |   |
| IV  | 81085      | Applied Chemistry      | 29-09-2021<br>Wednesday |   |

**M.Sc. Alcohol Technology [ C.B.C.S.] OLD**

| Branch Code - Alcohol Technology ( C.B.C.S. ) |            |                         | <u>(From Oct-2017)</u>  |                                |
|---|------------|-------------------------|-------------------------|--------------------------------|
| Part I - Sem II                               |            |                         |                         |                                |
| PAPER NO.                                     | PAPER CODE | PAPER NAME              | DAY & DATE              | Session-IV                     |
| V   | 68602      | Bio-Chemistry           | 28-09-2021<br>Tuesday   | 04.30. p.m.<br>To<br>05.30 p.m |
| VI  | 68603      | Fermentation Technology | 29-09-2021<br>Wednesday |                                |
| VII   | 68604      | Alcohol Technology      | 30-09-2021<br>Thursday  |                                |
| VIII  | 68605      | Microbiology            | 01-10-2021<br>Friday    |                                |

**M.Sc. Alcohol Technology [ C.B.C.S.] New**

| Branch Code - Alcohol Technology ( C.B.C.S. ) |            |                                 | <u>(From April-2021)</u> |                                |
|---|------------|---------------------------------|--------------------------|--------------------------------|
| Part I - Sem II                               |            |                                 |                          |                                |
| PAPER NO.                                     | PAPER CODE | PAPER NAME                      | DAY & DATE               | Session-IV                     |
| V   | 82915      | Industrial Fermentation         | 28-09-2021<br>Tuesday    | 04.30. p.m.<br>To<br>05.30 p.m |
| VI  | 82916      | Alcohol Technology-II           | 29-09-2021<br>Wednesday  |                                |
| VII   | 82914      | Applied Microbiology            | 30-09-2021<br>Thursday   |                                |
| VIII  | 82917      | Applied Process Instrumentation | 01-10-2021<br>Friday     |                                |

**M.Sc. Alcohol Technology ( C.B.C.S. )**

| Branch Code - Alcohol Technology ( C.B.C.S. ) |   |  | <u>(From March-2018)</u> |                                       |
|---|---|--|--------------------------|---------------------------------------|
| Part II - Sem III                             |   |  |                          |                                       |
| PAPER NO.                                     | PAPER CODE  | PAPER NAME   | DAY & DATE               | Session-II                            |
| I   | 68636   | Alcohol Technology-III                                 | 11-08-2021<br>Wednesday  | From 12.30<br>p.m.<br>to<br>01.30 p.m |
| II  | 68637   | Microbiology III                                       | 12-08-2021<br>Thursday   |                                       |
| III   | 68638   | Fermentation Technology-III                            | 13-08-2021<br>Friday     |                                       |
| Paper No. IV                                  | <b>Paper No. IV :- Choose Any One of the Following Papers</b> |  |                          | From 12.30<br>p.m.<br>to<br>01.30 p.m |
|   | 68639   | Industrial waste treatments & Environmental management | 14-08-2021<br>Saturday   |                                       |
|   | 68640   | Sugar Technology (ST)                                  |                          |                                       |
|   | 68641   | Instrumentation & Automation in Distillery.            |                          |                                       |



**M.Sc Alcohol Technology ( C.B.C.S. )**

| <b>Branch Code - Alcohol Technology ( C.B.C.S. )</b> |   |   | <b>(From Oct-2018)</b>  |                                |
|--|---|---|-------------------------|--------------------------------|
| <b>Part II - Sem IV</b>                              |   |   |                         |                                |
| <b>PAPER NO.</b>                                     | <b>PAPER CODE</b>   | <b>PAPER NAME</b>   | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>              |
| I  | 68644   | Alcohol & Beverages production from grain and other sources | 11-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m |
| II   | 68645   | Production of ENA, ETHNOL & IMFL                            | 12-08-2021<br>Thursday  |                                |
| III  | 68646   | Chemical Engineering  | 13-08-2021<br>Friday    |                                |
| <b>Paper No.IV</b>                                   | <b>Paper No. IV :- Choose Any One of the Following Papers</b> |   |                         | 04.30. p.m.<br>To<br>05.30 p.m |
|  | 68647   | General Engineering   | 14-08-2021<br>Saturday  |                                |
|  | 68648   | Pollution Prevention & Control                              |                         |                                |
|  | 68649   | Business management & marketing                             |                         |                                |

**M.Sc. Sugar Technology**  
**M.Sc. Sugar Technology [ C.B.C.S.] Old**

| <b>Branch Code- Sugar Technology ( C.B.C.S.)</b> |                   |                                | <b>From May--2017</b>   |   |
|--|-------------------|--------------------------------|-------------------------|---|
| <b>Part I :- Sem.-I</b>                          |                   |                                |                         |   |
| <b>PAPER NO.</b>                                 | <b>PAPER CODE</b> | <b>PAPER NAME</b>              | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                           |
| I  | 68608             | Sugar Cane Agriculture         | 28-09-2021<br>Tuesday   | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
| II   | 68609             | Sugar Processing-Clarification | 29-09-2021<br>Wednesday |   |
| III  | 68610             | Sugar Engineering-Milling      | 30-09-2021<br>Thursday  |   |
| IV   | 68611             | Chemical Control               | 01-10-2021<br>Friday    |   |

**M.Sc. Sugar Technology [ C.B.C.S.] New**

| <b>Branch Code- Sugar Technology ( C.B.C.S.)</b> |                   |  | <b>From Oct--2020</b>   |   |
|--|-------------------|--|-------------------------|---|
| <b>Part I :- Sem.-I</b>                          |                   |  |                         |   |
| <b>PAPER NO.</b>                                 | <b>PAPER CODE</b> | <b>PAPER NAME</b>                            | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                           |
| I  | 81087             | Sugar Cane Agriculture                       | 28-09-2021<br>Tuesday   | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
| II   | 81088             | Sugar Processing-Clarification & Evaporation | 29-09-2021<br>Wednesday |   |
| III  | 81089             | Sugar Engineering-Milling                    | 30-09-2021<br>Thursday  |   |
| IV   | 81090             | Chemical Control                             | 01-10-2021<br>Friday    |   |

**M.Sc. Sugar Technology ( C.B.C.S. )Old**

| <b>Branch Code - Sugar Technology ( C.B.C.S. )</b> |                   |   | <b>(From Oct-2017)</b>  |                                |
|--|-------------------|---|-------------------------|--------------------------------|
| Part I - Sem II                                    |                   |   |                         |                                |
| <b>PAPER NO.</b>                                   | <b>PAPER CODE</b> | <b>PAPER NAME</b>                                 | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>              |
| V  | 68614             | Sugar Chemistry(SUCHEM)                           | 28-09-2021<br>Tuesday   | 04.30. p.m.<br>To<br>05.30 p.m |
| VI   | 68615             | Sugar Processing-Evaporation(SPEVA)               | 29-09-2021<br>Wednesday |                                |
| VII  | 68616             | Sugar Engineering-Steam & Power Generation(SEEPG) | 30-09-2021<br>Thursday  |                                |
| VIII   | 68617             | Equipment Design and Drawing(EDD)                 | 01-10-2021<br>Friday    |                                |

**M.Sc. Sugar Technology ( C.B.C.S. ) New**

| <b>Branch Code - Sugar Technology ( C.B.C.S. )</b> |                   |   | <b>(From April-2021)</b> |                                |
|--|-------------------|---|--------------------------|--------------------------------|
| Part I - Sem II                                    |                   |   |                          |                                |
| <b>PAPER NO.</b>                                   | <b>PAPER CODE</b> | <b>PAPER NAME</b>                                 | <b>DAY &amp; DATE</b>    | <b>Session-II</b>              |
| V  | 82907             | Sugar Chemistry(SUCHEM)                           | 28-09-2021<br>Tuesday    | 04.30. p.m.<br>To<br>05.30 p.m |
| VI   | 82908             | Sugar Processing-Crystalization & Finishing       | 29-09-2021<br>Wednesday  |                                |
| VII  | 82909             | Sugar Engineering-Steam & Power Generation(SEEPG) | 30-09-2021<br>Thursday   |                                |
| VIII   | 82910             | Equipment Design and Drawing(EDD)                 | 01-10-2021<br>Friday     |                                |

**M.Sc. Sugar Technology ( C.B.C.S. )**

| <b>Branch Code - Sugar Technology ( C.B.C.S. )</b> |   |  | <b>(From March-2018)</b> |   |
|--|---|--|--------------------------|---|
| Part II - Sem III                                  |   |  |                          |   |
| <b>PAPER NO.</b>                                   | <b>PAPER CODE</b>   | <b>PAPER NAME</b>                                    | <b>DAY &amp; DATE</b>    | <b>Session-II</b>                           |
| I  | 68620   | Equipments Capacity Calculation(ECC)                 | 11-08-2021<br>Wednesday  | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
| II   | 68621   | Sugar Processing-Crystallzation(SPC)                 | 12-08-2021<br>Thursday   |   |
| III  | 68622   | Chemical Engineering-Heat & Momentum Transfer(CEHMT) | 13-08-2021<br>Friday     |   |
| <b>Paper No.IV</b>                                 | <b>Paper No. IV :- Choose Any One of the Following Papers</b> |  |                          | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
|  | 68623   | Alcohol Technology(ALCOTECH)                         | 14-08-2021<br>Saturday   |   |
|  | 68624   | Bio-Chemical Engineering(BCE)                        |                          |   |
|  | 68625   | Electronics and Instrumentation Engineering(EIE)     |                          |   |

## M.Sc. Sugar Technology ( C.B.C.S. )

| <b>Branch Code - Sugar Technology ( C.B.C.S. ) (From Oct-2018)</b> |  |                                     |                         |                                |
|--|--|-------------------------------------|-------------------------|--------------------------------|
|  |  | Part II - Sem IV                    |                         |                                |
| PAPER NO.  | PAPER CODE   | PAPER NAME                          | DAY & DATE              | Session-II                     |
| I  | 68628  | Sugar Processing-Finishing          | 11-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m |
| II   | 68629  | Allid Sugar Manufacturing           | 12-08-2021<br>Thursday  |                                |
| III  | 68630  | Chemical Engineering-Unit Operation | 13-08-2021<br>Friday    |                                |
| <b>Paper No.IV</b>   | <b>Paper No.IV :- Choose Any One of the Following Papers</b> |                                     |                         | 04.30. p.m.<br>To<br>05.30 p.m |
|  | 68631  | Energy Conversion and Cogeneration  |                         |                                |
|  | 68632  | Pollution Prevention and Control    |                         |                                |
|  | 68633  | Water Management and Zero Discharge |                         |                                |
|  |  | 14-08-2021<br>Saturday              |                         |                                |

## M.Sc. Medical Information Management

### M.Sc. Medical Information Management [ C.B.C.S.]

| <b>Branch Code- Medical Information Management</b> |            |   |                         | <b>From Oct--2019</b>                                     |
|--|------------|---|-------------------------|---|
|  |            | Part I :- Sem.-I                          |                         |   |
| PAPER NO.  | PAPER CODE | PAPER NAME                                | DAY & DATE              | Session-II  |
| I  | 79007      | Information Technology in Health Sciences | 28-09-2021<br>Tuesday   | <b>From<br/>12.30 p.m.<br/><br/>to<br/><br/>01.30 p.m</b> |
| II   | 79008      | Introduction to Biological Sciencens      | 29-09-2021<br>Wednesday |   |
| III  | 79009      | Medical Informatics                       | 30-09-2021<br>Thursday  |   |
| IV   | 79010      | German Language –A1                       | 01-10-2021<br>Friday    |   |

| <b>Branch Code- Medical Information Management ( C.B.C.S.)</b> |            |                                      |                         | <b>From April-2020</b>         |
|--|------------|--------------------------------------|-------------------------|--------------------------------|
|  |            | Part I :- Sem.-II                    |                         |                                |
| PAPER NO.  | PAPER CODE | PAPER NAME                           | DAY & DATE              | Session-IV                     |
| V  | 80827      | Research Methods and Statistics      | 28-09-2021<br>Tuesday   | 04.30. p.m.<br>To<br>05.30 p.m |
| VI   | 80828      | Clinical Data and Quality Management | 29-09-2021<br>Wednesday |                                |
| VII  | 80829      | Clinical Quality Management          | 30-09-2021<br>Thursday  |                                |
| VIII   | 80830      | Clinical Data Management             | 01-10-2021<br>Friday    |                                |

**M.Sc. Medical Information Management [ C.B.C.S.]**

| <b>Branch Code- Medical Information Management ( C.B.C.S.)</b> |                   |   | <b>From Oct--2020</b>   |  |
|--|-------------------|---|-------------------------|--|
|  |                   | Part II :- Sem.-III   |                         |  |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b> | <b>PAPER NAME</b>   | <b>DAY &amp; DATE</b>   | <b>Session-II</b>  |
| IX   | 81112             | Clinical Data Management-II   | 11-08-2021<br>Wednesday | <b>12.30 p.m.</b><br><br><b>to</b><br><br><b>01.30 p.m</b> |
| X  | 81113             | Clinical Quality Management-II  | 12-08-2021<br>Thursday  |  |
| XI   | 81114             | Project Management and Project Presentation                               | 13-08-2021<br>Friday    |  |
| XII  | 81115             | Module to deepen Knowledge Clinical Research Biostatistics, Epidemiology. | 14-08-2021<br>Saturday  |  |

**M.Sc. Medical Information Management [ C.B.C.S.]**

| <b>Branch Code- Medical Information Management ( C.B.C.S.)</b> |                   |  | <b>From April--2021</b> |                                |
|--|-------------------|--|-------------------------|--------------------------------|
|  |                   | Part II:- Sem.-IV  |                         |                                |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b> | <b>PAPER NAME</b>  | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>              |
| XIII   | 82956             | Research problem identification and review of literature | 11-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m |
| XIV  | 82957             | Synopsis submission, and presentation                    | 12-08-2021<br>Thursday  |                                |
| XV   | 82958             | Mid-term evaluation by presentation                      | 13-08-2021<br>Friday    |                                |
| XVI  | 82960             | Viva Voce  | 14-08-2021<br>Saturday  |                                |

**M.A./M.Sc. Geography [C.B.C.S.]**

| <b>Brnch Code- Geography ( C.B.C.S.)</b> |                   |  | <b>From Oct--2019</b>   |   |
|--|-------------------|--|-------------------------|---|
| <b>Part I :- Sem.-I</b>                  |                   |  |                         |   |
| <b>PAPER NO.</b>                         | <b>PAPER CODE</b> | <b>PAPER NAME</b>                                      | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                           |
| I  | 74960             | Fundamentals of Geomorphology                          | 29-09-2021<br>Wednesday | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
| II                                       | 74961             | Principles of Climatology                              | 30-09-2021<br>Thursday  |   |
| III                                      | 74962             | Economic Geography                                     | 01-10-2021<br>Friday    |   |
| IV                                       | 74963             | Geography of Population and Human Resource Development | 04-10-2021<br>Monday    |   |

**M.A./M.Sc. Geography [C.B.C.S.]**

| <b>Branch Code - GEOGRAPHY ( C.B.C.S.)</b> |                   |  | <b>(From April-2020)</b> |                                |
|--|-------------------|--|--------------------------|--------------------------------|
| <b>Part I - Sem II</b>                     |                   |  |                          |                                |
| <b>PAPER NO.</b>                           | <b>PAPER CODE</b> | <b>PAPER NAME</b>                      | <b>DAY &amp; DATE</b>    | <b>Session-IV</b>              |
| I  | 79307             | Applied Geomorphology                  | 29-09-2021<br>Wednesday  | 04.30. p.m.<br>To<br>05.30 p.m |
| II   | 79308             | Applied Climatology and Climate Change | 30-09-2021<br>Thursday   |                                |
| III  | 79309             | Social and Cultural Geography          | 01-10-2021<br>Friday     |                                |
| IV   | 79536             | Advanced Cartography and Surveying     | 04-10-2021<br>Monday     |                                |

**M.A./M.Sc. Geography [C.B.C.S.] Old**

| <b>Branch Code - GEOGRAPHY ( C.B.C.S.)</b>    |                   |   | <b>(From Oct-2019)</b>  |   |
|---|-------------------|---|-------------------------|---|
| <b>Part II - Sem III</b>                      |                   |   |                         |   |
| <b>PAPER NO.</b>                              | <b>PAPER CODE</b> | <b>PAPER NAME</b>   | <b>DAY &amp; DATE</b>   | <b>Session-III</b>                          |
|   | 74016             | Geohydrology and Oceanography                               | 11-08-2021<br>Wednesday | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
|   | 74017             | Fundamentals of Remote Sensing and Digital Image Processing | 12-08-2021<br>Thursday  |   |
|   | 74022             | Research Methodology in Geography                           | 13-08-2021<br>Friday    |   |
|   | 74023             | Photogrammetry, Remote Sensing and Digital Image Processing | 14-08-2021<br>Saturday  |   |
| <b>Choose Any One of the Following Papers</b> |                   |   |                         | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
| VII   | 74018             | Geography of Environment                                    | 17-08-2021<br>Tuesday   |   |
|   | 74019             | Biogeography  |                         |   |
| <b>Choose Any One of the Following Papers</b> |                   |   |                         | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
| VIII  | 74020             | Settlement Geography  | 18-08-2021<br>Wednesday |   |
|   | 74021             | Advance Cartography and Surveying                           |                         |   |

**M.A./M.Sc. Geography [C.B.C.S.]**

| <b>Branch Code - GEOGRAPHY ( C.B.C.S.)</b>    |                   |   |                         | <b>(From Oct-2020)</b>                                  |
|---|-------------------|---|-------------------------|---|
| <b>Part II - Sem III</b>                      |                   |   |                         |   |
| <b>PAPER NO.</b>                              | <b>PAPER CODE</b> | <b>PAPER NAME</b>   | <b>DAY &amp; DATE</b>   | <b>Session-III</b>                                      |
| V   | 81148             | Geohydrology and Oceanography                               | 11-08-2021<br>Wednesday | <b>From 12.30 p.m.</b><br><b>to</b><br><b>01.30 p.m</b> |
| VI  | 81149             | Fundamentals of Remote Sensing and Digital Image Processing | 12-08-2021<br>Thursday  |   |
| <b>Choose Any One of the Following Papers</b> |                   |   |                         | <b>From 12.30 p.m.</b><br><b>to</b><br><b>01.30 p.m</b> |
| VII   | 81150             | Geography of Environment                                    | 17-08-2021<br>Tuesday   |   |
|   | 81151             | Biogeography  |                         |   |
| <b>Choose Any One of the Following Papers</b> |                   |   |                         | <b>From 12.30 p.m.</b><br><b>to</b><br><b>01.30 p.m</b> |
| VIII  | 81152             | Settlement Geography  | 18-08-2021<br>Wednesday |   |
|   | 81153             | Geography of India  |                         |   |
|   | 81154             | Political Geography   |                         |   |

**M.A./M.Sc. Geography [C.B.C.S.] Old**

| <b>Branch Code - GEOGRAPHY ( C.B.C.S.)</b>    |                   |  |                         | <b>From April-2020</b>         |
|---|-------------------|--|-------------------------|--------------------------------|
| <b>Part II :- Sem.-IV</b>                     |                   |  |                         |                                |
| <b>PAPER NO.</b>                              | <b>PAPER CODE</b> | <b>PAPER NAME</b>  | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>              |
| IX  | 79489             | Development of Modern Geographical Thought                       | 11-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m |
| X   | 79490             | Regional Planning and Development                                | 12-08-2021<br>Thursday  |                                |
| <b>Choose Any One Of The Following Papers</b> |                   |  |                         | 04.30. p.m.<br>To<br>05.30 p.m |
| XI  | 79493             | Tourism Geography  | 13-08-2021<br>Friday    |                                |
|   | 79494             | Agricultural Geography   |                         |                                |
| <b>Choose Any One Of The Following Papers</b> |                   |  |                         | 04.30. p.m.<br>To<br>05.30 p.m |
| XII   | 79491             | Fundamentals of Geographical Information System and Introduction | 14-08-2021<br>Saturday  |                                |
|   | 79492             | Fundamental of Soil Geography                                    |                         |                                |

**M.A./M.Sc. Geography [C.B.C.S.] New**

| <b>Brnch Code- Geography ( C.B.C.S.)</b>      |                   |   | <b>From April--2021</b> |                                |
|---|-------------------|---|-------------------------|--------------------------------|
|   |                   | Part II :- Sem.-IV                          |                         |                                |
| <b>PAPER NO.</b>                              | <b>PAPER CODE</b> | <b>PAPER NAME</b>                           | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>              |
|   | 82982             | Development of Modern Geographical Thought  | 11-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m |
|   | 82983             | Regional Planning and Development           | 12-08-2021<br>Thursday  |                                |
| <b>Choose Any One Of The Following Papers</b> |                   |   |                         |                                |
|   | 82984             | Fundamentals and Application of GIS and GPS | 14-08-2021<br>Saturday  |                                |
|   | 82985             | Fundamental of Soil Geography               |                         |                                |
| <b>Choose Any One Of The Following Papers</b> |                   |   |                         |                                |
|   | 82986             | Agricultural Geography                      | 13-08-2021<br>Friday    |                                |
|   | 82987             | Tourism Geography                           |                         |                                |
|   | 82988             | Geography of Health and Nutrition           |                         |                                |
| <b>Choose Any One Of The Following Papers</b> |                   |   |                         |                                |
|   | 82990             | Introduction to GIS Software and GPS        | 17-08-2021<br>Tuesday   |                                |
|   | 82991             | Soil and Water Analysis                     |                         |                                |

## M.A/M.Sc. Mathematics

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

| Branch Code- Mathematics ( C.B.C.S.) |                 |                                 |                         | From Oct—  |
|--------------------------------------|-----------------|---------------------------------|-------------------------|--|
| <b>2019</b>                          |                 |                                 |                         |  |
| Part I :- Sem.-I                     |                 |                                 |                         |  |
| PAPER NO.                            | PAPER CODE      | PAPER NAME                      | DAY & DATE              | Session-II   |
| I                                    | 71415/<br>59828 | Advance Calculus                | 29-09-2021<br>Wednesday | <b>12.30 p.m.</b><br><br>to<br><br><b>01.30 p.m.</b> |
| II                                   | 71416/<br>61381 | Linear Algebra                  | 30-09-2021<br>Thursday  |  |
| III                                  | 71417/<br>61383 | Complex Analysis                | 01-10-2021<br>Friday    |  |
| IV                                   | 71418/<br>59831 | Classical Mechanics             | 04-10-2021<br>Monday    |  |
| V                                    | 71419/<br>59830 | Ordinary Differential Equations | 05-10-2021<br>Tuesday   |  |

### M.A/M.Sc. Mathematics ( C.B.C.S. ) New C.N. 217

| Branch Code - Mathematics ( C.B.C.S.) |                           |                                |                         | (From April-2020               |
|---------------------------------------|---------------------------|--------------------------------|-------------------------|--------------------------------|
| Part I - Sem II                       |                           |                                |                         |                                |
| PAPER NO.                             | PAPER CODE                | PAPER NAME                     | DAY & DATE              | Session-IV                     |
| VI                                    | 71421/<br>79315/<br>63303 | Functional Analysis            | 29-09-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m |
| VII                                   | 71422/<br>79316/<br>59827 | Algebra                        | 30-09-2021<br>Thursday  |                                |
| VIII                                  | 71423/<br>79317           | General Topology               | 01-10-2021<br>Friday    |                                |
| VIII                                  | 61382                     | Topology                       | 01-10-2021<br>Friday    |                                |
| IX                                    | 71424/<br>79318           | Numerical Analysis             | 04-10-2021<br>Monday    |                                |
| IX                                    | 69566                     | Numerical Analysis             | 04-10-2021<br>Monday    |                                |
| X                                     | 71425/<br>79319/<br>63319 | Partial Differential Equations | 05-10-2021<br>Tuesday   |                                |



**M.A/M.Sc. Mathematics ( C.B.C.S. ) Old**

| <b>Branch Code - Mathematics ( C.B.C.S.)</b>                |                   |                           | <b>(From April-2020)</b> |                                |
|---|-------------------|---------------------------|--------------------------|--------------------------------|
|   |                   | <b>Part II - Sem III</b>  |                          |                                |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>         | <b>DAY &amp; DATE</b>    | <b>Session-II</b>              |
| XI  | 59829/<br>73976   | Real Analysis             | 02-09-2021<br>Thursday   | 12.30. p.m.<br>To<br>01.30 p.m |
| XII   | 73977             | Field Theory              | 04-09-2021<br>Saturday   | 12.30. p.m.<br>To<br>01.30 p.m |
| <b>XIII, XIV &amp; XV Any Three of the following Papers</b> |                   |                           |                          | 12.30. p.m.<br>To<br>01.30 p.m |
|   | 63307/<br>73978   | Number Theory             | 13-08-2021<br>Friday     |                                |
|   | 63316/<br>73979   | Operations Research – I   | 14-08-2021<br>Saturday   |                                |
|   | 63314/<br>73980   | Fuzzy Mathematics –I      | 17-08-2021<br>Tuesday    |                                |
|   | 63305/<br>73981   | Fluid Dynamics            | 18-08-2021<br>Wednesday  |                                |
|   | 73982/<br>80967   | Fractional Calculus       | 20-08-2021<br>Friday     |                                |
|   | 73983             | General Relativity – I    | 21-08-2021<br>Saturday   |                                |
|   | 73984             | Lattice Theory – I        | 23-08-2021<br>Monday     |                                |
|   | 73985             | Approximation Theory      | 24-08-2021<br>Tuesday    |                                |
|   | 73986             | Dynamical Systems – I     | 25-08-2021<br>Wednesday  |                                |
|   | 73987             | Graph Theory-I            | 26-08-2021<br>Thursday   |                                |
|   | 61385/<br>73988   | Differential Geometry     | 27-08-2021<br>Friday     |                                |
|   | 63320/<br>73989   | Combinatorics             | 28-08-2021<br>Saturday   |                                |
|   | 73990             | Topological Vector Spaces | 30-08-2021<br>Monday     |                                |
|   | 73991             | Commutative Algebra - I   | 31-08-2021<br>Tuesday    |                                |
|   | 63312/<br>73992   | Space Dynamics- I         | 01-09-2021<br>Wednesday  |                                |
|   | 73993             | Theory of Computation     | 02-09-2021<br>Thursday   |                                |
|   | 73994             | Algebraic Topology        | 03-09-2021<br>Friday     |                                |

**M.A/M.Sc. Mathematics ( C.B.C.S. ) C.N. 218**

| <b>Branch Code - Mathematics ( C.B.C.S.)</b>                |                           |                                      | <b>(From Oct-2020)</b>  |                                |
|---|---------------------------|--------------------------------------|-------------------------|--------------------------------|
| <b>Part II - Sem III</b>                                    |                           |                                      |                         |                                |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b>         | <b>PAPER NAME</b>                    | <b>DAY &amp; DATE</b>   | <b>Session-II</b>              |
| XI  | 80960                     | Real Analysis                        | 02-09-2021<br>Thursday  | 12.30. p.m.<br>To<br>01.30 p.m |
| <b>Any one of the following</b>                             |                           |                                      |                         |                                |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b>         | <b>PAPER NAME</b>                    | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>              |
| XII   | 63304/<br>79322/<br>80961 | Advanced Discrete Mathematics        | 04-09-2021<br>Saturday  | 04.30. p.m.<br>To<br>05.30 p.m |
|   | 80962                     | Topological Vector Spaces            |                         |                                |
| <b>XIII, XIV &amp; XV Any Three of the following Papers</b> |                           |                                      |                         |                                |
|   | 80963/<br>63307           | Number Theory                        | 13-08-2021<br>Friday    | 12.30. p.m.<br>To<br>01.30 p.m |
|   | 80964/<br>63316           | Operations Research – I              | 14-08-2021<br>Saturday  |                                |
|   | 80965/<br>63314           | Fuzzy Mathematics –I                 | 17-08-2021<br>Tuesday   |                                |
|   | 80966                     | Fluid Dynamics                       | 18-08-2021<br>Wednesday |                                |
|   | 80967                     | Fractional Calculus                  | 20-08-2021<br>Friday    |                                |
|   | 80968                     | General Relativity – I               | 21-08-2021<br>Saturday  |                                |
|   | 80969                     | Lattice Theory – I                   | 23-08-2021<br>Monday    |                                |
|   | 80970                     | Approximation Theory                 | 24-08-2021<br>Tuesday   |                                |
|   | 80971                     | Dynamical Systems – I                | 25-08-2021<br>Wednesday |                                |
|   | 80972                     | Graph Theory-I                       | 26-08-2021<br>Thursday  |                                |
|   | 80973                     | Differential Geometry                | 27-08-2021<br>Friday    |                                |
|   | 80974                     | Combinatorics                        | 28-08-2021<br>Saturday  |                                |
|   | 80979                     | Probability and Stochastic Processes | 30-08-2021<br>Monday    |                                |
|   | 80975                     | Commutative Algebra - I              | 31-08-2021<br>Tuesday   |                                |
|   | 80976                     | Space Dynamics- I                    | 01-09-2021<br>Wednesday |                                |
|   | 80977                     | Theory of Computation                | 02-09-2021<br>Thursday  |                                |
|   | 80978                     | Algebraic Topology                   | 03-09-2021<br>Friday    |                                |

| <b>Branch Code - MATHEMATICS ( C.B.C.S.) Old<br/>(From April-2020)</b>     |                   |                                   |                         |                                |
|--|-------------------|-----------------------------------|-------------------------|--------------------------------|
| <b>Part II :- SEM-IV</b>   |                   |                                   |                         |                                |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b> | <b>PAPER NAME</b>                 | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>              |
| XVI  | 79322             | Advance Discrete Mathematics      | 04-09-2021<br>Saturday  | 04.30. p.m.<br>To<br>05.30 p.m |
| XVII   | 63336/<br>79321   | Integral Equation                 | 03-09-2021<br>Friday    |                                |
| <b>Paper No. – XVIII, XIX &amp; XX – Choose any Three of the following</b> |                   |                                   |                         | 04.30. p.m.<br>To<br>05.30 p.m |
|  | 79476             | Dynamics Equations on Time Scales | 13-08-2021<br>Friday    | 12.30 p.m.<br>To 01.30 p.m     |
|  | 63335/<br>79327   | Fractional Differential Equations | 20-08-2021<br>Friday    |                                |
|  | 63330/<br>79328   | General Relativity-II             | 17-08-2021<br>Tuesday   | 04.30. p.m.<br>To<br>05.30 p.m |
|  | 63324/<br>79329   | Lattice Theory-II                 | 18-08-2021<br>Wednesday |                                |
|  | 79325/<br>63328   | Fuzzy Mathematics-II              | 20-08-2021<br>Friday    |                                |
|  | 79332             | Graph Theory-II                   | 21-08-2021<br>Saturday  |                                |
|  | 63329/<br>79326   | Computational Fluid Dynamics      | 23-08-2021<br>Monday    |                                |
|  | 63323/<br>79324   | Operations Research –II           | 24-08-2021<br>Tuesday   |                                |
|  | 63334/<br>79323   | Algebraic Number Theory           | 25-08-2021<br>Wednesday |                                |
|  | 63327/<br>79330   | Wavelet Analysis                  | 26-08-2021<br>Thursday  |                                |
|  | 63331/<br>79331   | Dynamical Systems- II             | 27-08-2021<br>Friday    |                                |
|  | 63322/<br>79336   | Commutative Algebra-II            | 28-08-2021<br>Saturday  |                                |
|  | 79333             | Analysis on Manifolds             | 30-08-2021<br>Monday    |                                |
|  | 79475             | Automata Theory                   | 31-08-2021<br>Tuesday   |                                |
|  | 79337             | Space Dynamics-II                 | 01-09-2021<br>Wednesday |                                |
|  | 79335             | Theory of Distributions           | 02-09-2021<br>Thursday  |                                |
|  | 79334             | Measure and Integration           | 03-09-2021<br>Friday    |                                |

**M.Sc. Mathematics ( C.B.C.S. ) New**

| <b>Branch Code- Mathematics ( C.B.C.S.)</b>                                |                                    |                                   | <b>From April—2021</b>  |                                      |
|--|------------------------------------|-----------------------------------|-------------------------|--------------------------------------|
| Part II :- Sem.-IV   |                                    |                                   |                         |                                      |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b>                  | <b>PAPER NAME</b>                 | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                    |
|  | <b>69567/<br/>63326/<br/>83058</b> | Field Theory                      | 04-09-2021<br>Saturday  | 12.30. p.m.<br>To<br>01.30 p.m       |
| <b>Any one of the following</b>  |                                    |                                   |                         |                                      |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b>                  | <b>PAPER NAME</b>                 | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>                    |
|  | 83057                              | Integral Equations                | 03-09-2021<br>Friday    | 04.30. p.m.<br>To<br>05.30 p.m       |
| <b>Paper No. – XVIII, XIX &amp; XX – Choose any Three of the following</b> |                                    |                                   |                         |                                      |
|  | <b>83059</b>                       | Algebraic Number Theory           | 25-08-2021<br>Wednesday | 04.30. p.m.<br>To<br>05.30 p.m       |
|  | <b>83060</b>                       | Operations Research –II           | 24-08-2021<br>Tuesday   |                                      |
|  | <b>83061</b>                       | Fuzzy Mathematics-II              | 20-08-2021<br>Friday    | 04.30. p.m. to<br>05.30 p.m.         |
|  | <b>83062</b>                       | Computational Fluid Dynamics      | 23-08-2021<br>Monday    |                                      |
|  | <b>83063</b>                       | Fractional Differential Equations | 20-08-2021<br>Friday    | 12.30. p.m. to<br><b>01.30. p.m.</b> |
|  | <b>83066</b>                       | Wavelet Analysis                  | 26-08-2021<br>Thursday  | 04.30.p.m. to<br><b>05.30. p.m</b>   |
|  | <b>83072</b>                       | Commutative Algebra-II            | 28-08-2021<br>Saturday  |                                      |
|  | <b>83073</b>                       | Space Dynamics-II                 | 01-09-2021<br>Wednesday |                                      |
|  | <b>83074</b>                       | Dynamics Equation on Time Scales  | 13-08-2021<br>Friday    |                                      |

**M.Sc. Tech ( MATHEMATICS ) [ C.B.C.S. ]**

| <b>Branch Code- Tech. Mathematics ( C.B.C.S.)</b> |                   |                                    |                         |  |  |
|---|-------------------|------------------------------------|-------------------------|--|--|
| <b>From Oct--2018</b>                             |                   |                                    |                         |  |  |
|   |                   | <b>Part I :- Sem.-I</b>            |                         |  |  |
| <b>PAPER NO.</b>                                  | <b>PAPER CODE</b> | <b>PAPER NAME</b>                  | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                            |  |
| V   | 71453             | Advanced Calculus                  | Wednesday<br>29-09-2021 | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m.</b> |  |
| III   | 71454             | Linear Algebra                     | Thursday<br>30-09-2021  |  |  |
| I   | 71455             | Discrete Mathematical Structures-I | Friday<br>01-10-2021    |  |  |
| IV  | 71456             | Computer Architecture              | Monday<br>04-10-2021    |  |  |
| II  | 71457             | Programming in C                   | Tuesday<br>05-10-2021   |  |  |

**M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.) New**

| <b>Branch Code - M.Sc.TECH ( MATHEMATICS ) ( C.B.C.S.)</b> |                   |                                     |                         |  |  |
|--|-------------------|-------------------------------------|-------------------------|--|--|
| <b>(Revised From April-2019)</b>                           |                   |                                     |                         |  |  |
|  |                   | <b>Part I :- Sem.-II</b>            |                         |  |  |
| <b>PAPER NO.</b>   | <b>PAPER CODE</b> | <b>PAPER NAME</b>                   | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>                            |  |
| I  | 71460             | Functional Analysis                 | Wednesday<br>29-09-2021 | <b>From 04.30 p.m.<br/>to<br/>05.30 p.m.</b> |  |
| II   | 71461             | Algebra                             | Thursday<br>30-09-2021  |  |  |
| IV   | 71464             | Operating Systems                   | Friday<br>01-10-2021    |  |  |
| V  | 71463             | Data Structures Using-C             | Monday<br>04-10-2021    |  |  |
| III  | 71462             | Discrete Mathematical Structures-II | Tuesday<br>05-10-2021   |  |  |

**M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.)**

| <b>Branch Code - M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.)</b> |                   |                                      |                        |  |  |
|---|-------------------|--------------------------------------|------------------------|--|--|
| <b>(Revised From Oct-2019)</b>                              |                   |                                      |                        |  |  |
|   |                   | <b>Part II :- Sem.-III</b>           |                        |  |  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>                    | <b>DAY &amp; DATE</b>  | <b>Session-II</b>                            |  |
| I   | 74024             | Complex Analysis                     | 01-10-2021<br>Friday   | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m.</b> |  |
| II  | 74025             | ODE                                  | 05-10-2021<br>Tuesday  |  |  |
| IV  | 74026             | DAA-I                                | 04-09-2021<br>Saturday |  |  |
| V   | 74027             | Database System                      | 06-09-2021<br>Monday   |  |  |
| III   | 74028             | Object Oriented Programming with C++ | 07-09-2021<br>Tuesday  |  |  |

**M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.) Old**

| <b>Branch Code - M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.) From April-2016</b> |                   |                                       |                         |  |
|---|-------------------|---------------------------------------|-------------------------|--|
| <b>Part II :- Sem.-IV</b>   |                   |                                       |                         |  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>                     | <b>DAY &amp; DATE</b>   | <b>Session-IV</b>                            |
| I   | 67155             | Functional Analysis                   | Wednesday<br>29-09-2021 | <b>From 04.30 p.m.<br/>to<br/>05.30 p.m.</b> |
| IV  | 67157             | Design and Analysis of Algorithms-II  | 04-09-2021<br>Saturday  |  |
| V   | 67158             | Object Oriented Programming With Java | 08-09-2021<br>Wednesday |  |
| VI  | 67159             | Linux Operating System                | 07-09-2021<br>Tuesday   |  |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>                     | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                            |
| II  | 67156             | Differential Equations                | 05-10-2021<br>Tuesday   | 12.30. p.m.<br>To<br>01.30 p.m               |

**M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.) New**

| <b>Branch Code - M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.) From Oct-2020</b> |                   |                    |                         |   |
|---|-------------------|--------------------|-------------------------|---|
| <b>Part II :- Sem.-IV</b>   |                   |                    |                         |   |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>  | <b>DAY &amp; DATE</b>   | <b>Session-II</b>   |
| I   | 79483             | Real Analysis      | 02-09-2021<br>Thursday  | 12.30.p.m. to<br>01.30. p. m.                               |
| II  | 79884             | Operation Research | 03-09-2021<br>Friday    | <b>Session-IV<br/>From 04.30 p.m.<br/>to<br/>05.30 p.m.</b> |
| IV  | 79485             | DAA-II             | 04-09-2021<br>Saturday  |   |
| V   | 79486             | PHP With MySQL     | 06-09-2021<br>Monday    |   |
| VI  | 79487             | Java Programming   | 08-09-2021<br>Wednesday |   |

**M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.) Old**

| <b>Branch Code - M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.)</b> |                   |                      |                         | <b>From Oct-2016</b>                        |
|---|-------------------|----------------------|-------------------------|---|
|   |                   | Part III :- Sem.-V   |                         |   |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>    | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                           |
| I   | 67980             | Compiler Techniques  | 25-08-2021<br>Wednesday | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
| II  | 67981             | Software Engineering | 26-08-2021<br>Thursday  |   |
| III   | 67982             | Computer Networks    | 27-08-2021<br>Friday    |   |
| IV  | 67983             | Computer Graphics    | 28-08-2021<br>Saturday  |   |
| <b>Paper No. V- Choose any One of the following</b>         |                   |                      |                         |   |
|   | 67984             | Web Technology       | 30-08-2021<br>Monday    | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
|   | 67985             | PHP with MySQL       |                         |   |
|   | 67986             | Android Programming  |                         |   |
|   | 67987             | Advanced Java        |                         |   |

**M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.) New**

| <b>Branch Code - M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.)</b> |                   |                         |                         | <b>From Oct-2020</b>                        |
|---|-------------------|-------------------------|-------------------------|---|
|   |                   | Part III :- Sem.-V      |                         |   |
| <b>PAPER NO.</b>  | <b>PAPER CODE</b> | <b>PAPER NAME</b>       | <b>DAY &amp; DATE</b>   | <b>Session-II</b>                           |
| I   | 81119             | Advanced Web Technology | 25-08-2021<br>Wednesday | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
| II  | 81120             | Software Engineering    | 26-08-2021<br>Thursday  |   |
| III   | 81121             | Computer Networks       | 27-08-2021<br>Friday    |   |
| IV  | 81122             | Cyber Security          | 28-08-2021<br>Saturday  |   |
| <b>Paper No. V- Choose any One of the following</b>         |                   |                         |                         |   |
|   | 81123             | Compiler Techniques     | 30-08-2021<br>Monday    | <b>From 12.30 p.m.<br/>to<br/>01.30 p.m</b> |
|   | 81124             | Linux Operating System  |                         |   |
|   | 81125             | Android Programming     |                         |   |
|   | 81126             | Machine Learning        |                         |   |

Vidyanagar,  
Kolhapur – 416 004  
Date :- 09 August 2021

Shri. G.R. Palse  
I/c DIRECTOR  
**BOARD OF EXAMINATIONS AND EVALUATION**