

**ANNEXURE M. Sc. STATISTICS**

**Equivalence of Syllabus / papers between CBS & CBCS syllabus for desirous students (CBS Pattern students (introduced in the Year 2012-2013) in CBCS Pattern ( introduced in the year 2015-16 at M.Sc Semester I and II and in the year 2016-17, at M.Sc. Semester –III and Semester IV**

| <b>If the candidate has failed in any of the papers mentioned below (As described in Point no. 22 'b', 'c', 'd', and 'e')</b> |                 |              |                                   |                    |                | <b>Then, the candidate shall appear and clear the paper shown in the respective row as equivalent paper</b> |            |                 |                       |                                   |                    |                |
|---|-----------------|--------------|-----------------------------------|--------------------|----------------|---|------------|-----------------|-----------------------|-----------------------------------|--------------------|----------------|
| <b>M.Sc. Statistics.. CBS Pattern : Semester -I</b>   |                 |              |                                   |                    |                | <b>M.Sc. Statistics Choice Based Credit System ( CBCS)</b>  |            |                 |                       |                                   |                    |                |
| <b>S. No.</b>   | <b>Code No.</b> | <b>Paper</b> | <b>Name of Paper</b>              | <b>Total Marks</b> | <b>Credits</b> | <b>Equivalence To</b>   | <b>Sem</b> | <b>Code No.</b> | <b>Paper</b>          | <b>Name of Paper</b>              | <b>Total Marks</b> | <b>Credits</b> |
| 01  | MST 101         | Paper I      | Elements of Mathematical Analysis | 100                | 4              |   | I          | 1T1             | Paper I               | Elements of Mathematical Analysis | 80+ 20             | 4              |
| 02  | MST 102         | Paper II     | Distribution Theory               | 100                | 4              |   | I          | 1T2             | Paper II              | Distribution Theory               | 80+20              | 4              |
| 03  | MST 103         | Paper III    | Estimation Theory                 | 100                | 4              |   | I          | 1T3             | Paper III             | Estimation Theory                 | 80+20              | 4              |
| 04  | MST 104         | Paper IV     | Sampling Theory                   | 100                | 4              |   | I          | 1T4             | Paper IV              | Sampling Theory                   | 80+20              | 4              |
| 05  | Practical - I   | Practical-I  | Practical - I                     | 80+ 20             | 4              |   | I          | 1P1             | Practical I           | Practical - I                     | 100                | 4              |
| 06  | Practical - II  | Practical-II | Practical - II                    | 80+20              | 4              |   | I          | 1P2             | Practical II          | Practical - II                    | 100                | 4              |
| 07  | Seminar         | Seminar-I    |                                   | 25                 | 1              |   | I          | 1S1             | Seminar               | Seminar-I                         | 25                 | 1              |
| <b>M.Sc. Statistics CBS Pattern : Semester -II</b>  |                 |              |                                   |                    |                | <b>M.Sc. Statistics Choice Based Credit System ( CBCS)</b>  |            |                 |                       |                                   |                    |                |
| <b>S. No.</b>   | <b>Code No.</b> | <b>Paper</b> | <b>Name of Paper</b>              | <b>Total Marks</b> | <b>Credits</b> | <b>Equivalence To</b>   | <b>Sem</b> | <b>Code No.</b> | <b>Paper</b>          | <b>Name of Paper</b>              | <b>Total Marks</b> | <b>Credits</b> |
| 01  | MST 201         | Paper I      | Probability Theory                | 100                | 4              |   | II         | 2T1             | Paper I               | Probability Theory                | 80+20              | 4              |
| 02  | MST 202         | Paper II     | Elementary Stochastic Processes   | 100                | 4              |   | II         | 2T2             | Paper II              | Elementary Stochastic Processes   | 80+20              | 4              |
| 03  | MST 203         | Paper III    | Testing of Hypothesis             | 100                | 4              | II  | 2T3        | Paper III       | Testing of Hypothesis | 80+20                             | 4                  |                |

|   |                 |              |  |                    |                |   |            |                 |  |  |                    |                |
|---|-----------------|--------------|--|--------------------|----------------|---|------------|-----------------|--|--|--------------------|----------------|
| 04  | MST 204         | Paper IV     | Linear Models and Designs of Experiments   | 100                | 4              | II  | 2T4        | Paper IV        | Linear Models and Designs of Experiments | 80+20                                      | 4                  |                |
| 05  | Practical I     | Practical-I  | Practical - I                              | 80+20              | 4              | II  | 2P1        | Practical I     | Practical - I                            | 100  | 4                  |                |
| 06  | Practical II    | Practical-II | Practical - II                             | 80+20              | 4              | II  | 2P2        | Practical II    | Practical - II                           | 100  | 4                  |                |
| 07  | Seminar         | Seminar      | -----                                      | 25                 | 1              | II  | 2S1        | Seminar         | Seminar-II                               | 25   | 1                  |                |
| <b>M.Sc. Statistics CBS Pattern : Semester -III</b> |                 |              |  |                    |                | <b>M.Sc. Statistics Choice Based Credit System (CBCS)</b> |            |                 |  |  |                    |                |
| <b>S. No.</b>                                       | <b>Code No.</b> | <b>Paper</b> | <b>Name of Paper</b>                       | <b>Total Marks</b> | <b>Credits</b> | <b>Equivalence To</b>                                     | <b>Sem</b> | <b>Code No.</b> | <b>Paper</b>                             | <b>Name of Paper</b>                       | <b>Total Marks</b> | <b>Credits</b> |
| 01  | MST 301         | Paper I      | Decision Theory and Non parametric Methods | 100                | 4              |   | III        | 3T1             | Paper I                                  | Decision Theory and Non parametric Methods | 80+20              | 4              |
| 02  | MST 302         | Paper II     | Linear and Nonlinear Modeling              | 100                | 4              |   | III        | 3T2             | Paper II                                 | Linear and Nonlinear Modeling              | 80+20              | 4              |
| 03  | MST 303         | Paper III    | Mathematical Programming                   | 100                | 4              |   | III        | 3T3-A           | Paper III                                | Mathematical Programming                   | 80+20              | 4              |
| 04  | MST 304         | Paper IV     | Industrial Process and Quality Control     | 100                | 4              |   | III        | 3T4-A           | Paper IV                                 | Industrial Process and Quality Control     | 80+20              | 4              |
| 05  | Practical I     | Practical I  | Practical - I                              | 80+20              | 4              |   | III        | 3P1             | Practical I                              | Practical - I                              | 100                | 4              |
| 06  | Practical II    | Practical II | Practical - II                             | 80+20              | 4              |   | III        | 3P2             | Practical II                             | Practical - II                             | 100                | 4              |
| 07  | Seminar         | Seminar-III  | Seminar                                    | 25                 | 1              |   | III        | 3S1             | Seminar                                  | Seminar-III                                | 25                 | 1              |
| <b>M.Sc. Statistics CBS Pattern : Semester -IV</b>  |                 |              |  |                    |                | <b>M.Sc. Statistics Choice Based Credit System (CBCS)</b> |            |                 |  |  |                    |                |
| <b>S. No.</b>                                       | <b>Code No.</b> | <b>Paper</b> | <b>Name of Paper</b>                       | <b>Total Marks</b> | <b>Credits</b> | <b>Equivalence To</b>                                     | <b>Sem</b> | <b>Code No.</b> | <b>Paper</b>                             | <b>Name of Paper</b>                       | <b>Total Marks</b> | <b>Credits</b> |
| 01  | MST 401         | Paper I      | Multivariate Analysis                      | 100                | 4              |   | IV         | 4T1             | Paper I                                  | Multivariate Analysis                      | 80+20              | 4              |
| 02  | MST 402         | Paper II     | Computational Statistics                   | 100                | 4              |   | IV         | 4T2             | Paper II                                 | Computational Statistics                   | 80+20              | 4              |

|    |              |             |                       |         |   |
|----|--------------|-------------|-----------------------|---------|---|
| 03 | MST 403      | Paper III   | Operations Research   | 100     | 4 |
| 04 | MST 404      | Paper IV    | Industrial Statistics | 100     | 4 |
| 05 | Practical I  | Practical I | Practical - I         | 80 + 20 | 4 |
| 06 | Practical II | Project     | Project               | 80+20   | 4 |
| 07 | Seminar      | Seminar     | Seminar               | 25      | 1 |

|    |            |             |                       |       |   |
|----|------------|-------------|-----------------------|-------|---|
| IV | 4T3 -A     | Paper III   | Operations Research   | 80+20 | 4 |
| IV | 4T4- A     | Paper IV    | Industrial Statistics | 80+20 | 4 |
| IV | 4P1        | Practical I | Practical - I         | 100   | 4 |
| IV | 4PROJ<br>2 | Project     | Project               | 100   | 4 |
| IV | 4S1        | Seminar     | Seminar IV            | 25    | 1 |