

## Course Credit Scheme

### M.A./M.Sc. Statistics [MST]

Semester	Core Courses			Elective Course			Open Elective Course			Total Credits
	No. of papers	Credits (L+T/P)	Total Credits	No. of papers	Credits (L+T/P)	Total Credits	No. of papers	Credits (L+T/P)	Total Credits	
I	5	16+0+4	<b>20</b>							<b>20</b>
II	5	16+0+4	<b>20</b>							<b>20</b>
III	4	12+0+4	<b>16</b>	1	3+0+1	<b>4</b>				<b>20</b>
IV	3	8+0+4	<b>12</b>	2	6+0+2	<b>8</b>				<b>20</b>
Total Credits for the Course			<b>68</b>			<b>12</b>				<b>80</b>

Programme Structures: M.A/M.Sc. Statistics: **Details of Semester -I**

<b>Semester –I</b>					
<b>Number of Core courses:5</b>					
Course code	Course Title	Credits in each core course			
		Theory	Practical	Tutorial	Credits
MSTC 101	Analysis	4	0	0	4
MSTC 102	Probability Theory	4	0	0	4
MSTC 103	Statistical Methodology	4	0	0	4
MSTC 104	Survey Sampling	4	0	0	4
MSTC 105	Practical –I	0	4		4
<b>Total credits in each course</b>					<b>20</b>
<b>Number of elective courses: 0</b>					
Credits in each course		Theory	Practical	Tutorial	Credits
Total credits in elective courses					0
<b>Number of open electives: 0</b>					
Total credits in open elective courses					0
<b>Total credits in Semester –I</b>					<b>20</b>

## Semester –II

**Number of Core Courses: 5**

Course code	Course Title	Credits in each core course			
		Theory	Practical	Tutorial	Credits
MSTC 201	Linear Algebra	4	0	0	4
MSTC 202	Stochastic Processes	4	0	0	4
MSTC 203	Statistical Inference-I	4	0	0	4
MSTC 204	Design of Experiments	4	0	0	4
MSTC 205	Practical –II	0	4	0	4
<b>Total credits in each course</b>					<b>20</b>

**Number of elective courses: 0**

Credits in each course	Theory	Practical	Tutorial	Credits
Total credits in elective courses				0

**Number of open electives: 0**

Total credits in open elective courses				0
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**Total credits in Semester –II**

				<b>20</b>
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## Semester –III

**Number of Core Courses: 4**

Course code	Course Title	Credits in each core course			
		Theory	Practical	Tutorial	Credits
MSTC 301	Statistical Inference-II	4	0	0	4
MSTC 302	Multivariate Analysis	4	0	0	4
MSTC 303	Generalized Linear Model	4	0	0	4
MSTC 305	Practical -III	0	4		4
<b>Total credits in each course</b>					<b>16</b>

**Number of elective courses: 1**

	Theory	Practical	Tutorial	Credits	
Elective Course 1	3	1	0	4	
<b>Total credits in elective courses</b>					<b>4</b>

**Number of open electives : 0**

Total credits in open elective courses				0
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**Total credits in Semester -III**

				<b>20</b>
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### Semester –IV

**Number of Core Courses: 2**

Course code	Course Title	Credits in each core course			
		Theory	Practical	Tutorial	Credits
MSTC 401	Econometrics and Time Series Analysis	4	0	0	4
MSTC 402	Demography, Statistical Quality Control and Reliability	4	0	0	4
MSTC 405	Practical -IV	0	4	0	4
<b>Total credits in each core course</b>					<b>12</b>

**Number of elective courses: 2**

	Theory	Practical	Tutorial	Credits
<b>Elective 2</b>	3	1	0	4
<b>Elective 3</b>	3	1	0	4
<b>Total credits in elective courses</b>				<b>8</b>

**Number of open electives : 0**

Total credits in open elective courses				0
<b>Total credits in Semester –IV</b>				<b>20</b>

### List of Elective for Semester-III

**Elective Course 1: One optional paper out of the following: 3+0+1=4**

Course Code	Course Title	L-T-P
MSTC 304 (i)	Bio-statistics	3-0-1
MSTC 304 (ii)	Operational Research	3-0-1
MSTC 304 (iii)	Non- Parametric Inference	3-0-1
MSTC 304 (iv)	Financial Statistics	3-0-1
MSTC 304 (v)	An elective from outside the Department	3-0-1

**List of Elective for Semester-IV****Elective Course II:** MSTC 403: Two optional papers out of the following**Elective Course III:** MSTC 404:

<b>Course Code</b>	<b>Course Title</b>	<b>L-T-P</b>
MSTC 403 - 404 (i)	Applied stochastic Processes	3-0-1
MSTC 403 - 404 (ii)	Order statistics	3-0-1
MSTC 403 - 404 (iii)	Bayesian inference	3-0-1
MSTC 403 - 404 (iv)	Advanced survey sampling theory	3-0-1
MSTC 403 - 404 (v)	Advanced theory of experimental Designs	3-0-1
MSTC 403 - 404 (vi)	Advanced statistical computing and data mining	3-0-1
MSTC 403 - 404 (vii)	An elective from outside the Department	3-0-1