

# Vivekanand College, Kolhapur (Empowered Autonomous)

## Department of Statistics

### Departmental Teaching and Evaluation Scheme

Two - Years PG Programme

Department/Subject Specific Core or Major (DSC)

(as per NEP-2020 Guidelines)

### Statistics

### M. Sc. I: Semester-I & II

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
<b>Semester-I</b>										
1	DSC-I	DSC17STA11	Distribution Theory	4	-	80	20	-	100	4
2	DSC-II	DSC17STA12	Estimation Theory	4	-	80	20	-	100	4
3	DSC-III	DSC17STA13	Statistical Computing	2	-	40	10	-	50	2
4	DSE-I	DSE17STA11	Mathematical Statistics	4	-	80	20	-	100	4
		DSE17STA12	Real Analysis							
		DSE17STA13	Linear Algebra							
5	RMD	RMD17STA11	Research Methodology	4		80	20	-	100	4
6	DSC-PR-I	DSC17STA19	Statistics Practical I		12	-	-	100	100	4
<b>Semester –I Total</b>				<b>18</b>	<b>12</b>	<b>360</b>	<b>90</b>	<b>100</b>	<b>550</b>	<b>22</b>
<b>Semester-II</b>										
1	DSC-IV	DSC17STA21	Linear model and Regression Analysis	4	-	80	20	-	100	4
2	DSC-V	DSC17STA22	Theory of Testing of Hypothesis	4	-	80	20	-	100	4
3	DSC-VI	DSC17STA23	Multivariate Analysis	2	-	40	10	-	50	2
4	DSE-II	DSE17STA21	Probability Theory	4	-	80	20	-	100	4
		DSE17STA22	Reliability theory							
5	FPR	FPR17STA21	Field Project	-	4	-	-	100	100	4
	OJT	OJT17STA21	On Job Training							
6	DSC-PR-II	DSC17STA29	Statistics Practical II	-	12	-	-	100	100	4
<b>Semester –II Total</b>				<b>14</b>	<b>16</b>	<b>280</b>	<b>70</b>	<b>200</b>	<b>550</b>	<b>22</b>
<b>Total (Sem. I &amp; II)</b>				<b>32</b>	<b>28</b>	<b>640</b>	<b>160</b>	<b>300</b>	<b>1100</b>	<b>44</b>

**Department of Statistics**  
**Departmental Teaching and Evaluation Scheme**  
**Statistics**  
**M. Sc. II: Semester-III & IV**

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
<b>Semester-III</b>										
1	DSC-VII	DSC17STA31	Stochastic Processes	4	-	80	20	-	100	4
2	DSC-VIII	DSC17STA32	Statistical Learning and Data Mining	4	-	80	20	-	100	4
3	DSC-IX	DSC17STA33	Python Programming	2	-	40	10	-	50	2
4	DSE-III	DSE17STA31	Econometrics	4	-	80	20	-	100	4
		DSE17STA32	Generalized Linear Models							
5	RPR-I	RPR17STA31	Research Project	-	4	-	-	100	100	4
6	DSC-PR-III	DSC17STA39	Statistics Practical III	-	12	-	-	100	100	4
<b>Semester –III Total</b>				<b>14</b>	<b>16</b>	<b>280</b>	<b>70</b>	<b>200</b>	<b>550</b>	<b>22</b>
<b>Semester-IV</b>										
1	DSC-X	DSC17STA41	Time Series Analysis	4	-	80	20	-	100	4
2	DSC-XI	DSC17STA42	Design and Analysis of Experiments	4	-	80	20	-	100	4
3	DSE-IV	DSE17STA41	Optimization Techniques	4	-	80	20	-	100	4
		DSE17STA42	Statistical Quality Control							
		DSE17STA43	Survival Analysis							
4	RPR-II	RPR17STA41	Research Project		6	-	-	150	150	6
5	DSC-PR-IV	DSC17STA49	Statistics Practical IV		12	-	-	100	100	4
<b>Semester –IV Total</b>				<b>12</b>	<b>18</b>	<b>240</b>	<b>60</b>	<b>250</b>	<b>550</b>	<b>22</b>
<b>Total (Sem III&amp; IV)</b>				<b>26</b>	<b>34</b>	<b>520</b>	<b>130</b>	<b>450</b>	<b>1100</b>	<b>44</b>

Abbreviations: TH-Theory, PR-Practical, PRO- Project, ESE- End Semester Examination, CIE-Continuous Internal Examination

Note:

1. Passing percentage will be 40%
2. Separate passing for each Head - ESE, CIE and Practicals.