

**PES's Modern College of Arts, Science and Commerce,
Ganeshkhind, Pune 16
MSc (Statistics) syllabus structure**

Class: M. Sc. (Statistics Part 1)

Sem.	Paper	Paper	Paper title	No. of credits	Marks		
					CIA	ESE	Total
I	Major DSC (Vertical 1) 25STA23101	I	Continuous probability and Statistical Techniques I	4	40	60	100
	Major DSC (Vertical 1) 25STA23102	II	Practical III (based on Theory paper) (Manual and using MS-Excel)	2	20	30	50
	Major IKS (Vertical 1) 25STA23103	III	Indian Statistical knowledge system	2	20	30	50
	Major VSEC (Vertical 4) 25STA23404	IV	Introduction to C language	2	20	30	50
	Minor (Vertical 2) 25STA23205	I	Continuous probability and Statistical Techniques I	2	20	30	50
	Minor (Vertical 2) 25-STA-23206	II	Practical III (based on Theory paper) (Manual and using MS-Excel)	2	20	30	50
II	Major DSC (Vertical 1) 25STA24101	I	Continuous Probability distributions and Statistical Techniques II	4	40	60	100
	Major DSC (Vertical 1) 25STA24102	II	Practical IV (based on Theory paper) (Manual and using MS-Excel)	2	20	30	50
	Major VSEC (Vertical 4) 25STA24403	III	Introduction to Python	2	20	30	50
	Minor (Vertical 2) 25STA24204	I	Continuous Probability distributions and Statistical Techniques II	2	20	30	50
	Minor (Vertical 2) 25STA24205	II	Practical IV (based on Theory paper) (Manual and using MS-Excel)	2	20	30	50

Class: M. Sc. (Statistics Part 2)

Sem.	Paper	T/P	O/C/ E	Paper title	No. of credits	Marks		
						CIA	ESE	Total
III	STA63101	T	C	Statistical Inference	2	20	30	50
	STA63102	T	C	Probability Distributions	4	40	60	100
	STA63103	T	C	Regression Analysis	4	40	60	100
	STA63104	P	C	Practical Paper-III	4	40	60	100
	STA63205	T	E	Probability Theory	2	20	30	50
	STA63206	P	E	Introduction to SAS	2	20	30	50
	STA63207	T	E	Statistical Quality Control	2	20	30	50
	STA63208	P	E	Introduction to advanced R	2	20	30	50
	STA63609	P	C	Research Project I	4	40	60	100
Total								550
IV	STA64101	T	C	Analysis of Clinical Trials	4	40	60	100
	STA64102:	T	C	Survival Analysis	2	20	30	50
	STA64103	T	C	Design of Experiment	2	20	30	50
	STA64104	P	C	Practical Paper-IV	4	40	60	100
	STA64205	T	E	Asymptotic Inference	2	20	30	50
	STA64206	P	E	Introduction to SQL	2	20	30	50
	STA64207	T	E	Advanced Operation Research	2	20	30	50
	STA64208	P	E	Practical based on Advanced Operation Research and Computer intensive statistical methods	2	20	30	50
	STA64609	P	C	Research Project II	6	60	90	150
Total								550

