PANJAB UNIVERSITY CHANDIGARH

Outlines of Text, Syllabi and Courses of Reading in the Subject of Statistics for M.Sc. (Statistics) I-IV semester for the session 2020-21 i.e., 1^{st} and 3^{rd} Semesters November/December 2021 and 2nd & 4^{th} Semesters April/May 2022 Examinations, respectively.

Course No.	<u>Title</u> <u>C</u>	<u>Credits</u>
Semester-I		
Stat-101	Linear Algebra	4
Stat-102	Distribution Theory	4
	(Theory 3/4, Practical 1/4)	
Stat-103	Statistical Methods with Packages	4
	(Theory 3/4, Practical 1/4)	
Stat-104	Real Analysis	3
Stat-105	Course selected from module	4
Semester- II		
Stat-201	Numerical Techniques using C	4
	(Theory 1/2Practical 1/2)	
Stat-202	Estimation and Testing of Hypotheses	4
	(Theory 3/4, Practical 1/4)	
Stat-203	Sampling Theory and Official Statistics	4
	(Theory ³ / ₄ , Practical ¹ / ₄)	
Stat-204	Complex Analysis	3
Stat-205	Course selected from module	4
Semester- III		
Stat-301	Nonparametric Inference	4
	(Theory 3/4, Practical 1/4)	
Stat-302	Statistical Process and Quality Control	4
	(Theory 3/4, Practical 1/4)	
Stat-303	Linear Inference	4
(Theory 3/4	, Practical 1/4)	
Stat-304	Course selected from module /	4
	*Course selected from the sister Dept. under CBCS syst	em.
Semester- IV		
Stat-401	Multivariate Analysis	4
	(Theory 3/4,, Practical 1/4)	
Stat-402	Design and Analysis of Experiments	4
	(Theory 3/4,, Practical 1/4)	
Stat-403	Course selected from module/	4
	*Course selected from the sister Dept. under CBCS syste	em
Stat-404	Course selected from module/	4
	*Course selected from the sister Dept. under CBCS syste	em
	Project 2 (50 Marks)	
(It will start from Se	emIII and will end in SemIV w.e.f. session 2020-21))	

^{*}Mathematics, Physics and Computer Science are the sister departments for M.Sc. (Statistics) students under the CBCS system.

MODULE

4
3/4, Practical 1/4) 4
4
/4, Practical 1/4) 4
4
/4, Practical 1/4) 4
4
4
cation using R (Theory 1/2, Practical 1/2) 4
4
4
3

ANY OTHER COURSE WHICH THE BOARD OF CONTROL MAY DECIDE TO OFFER.