

Dayanand College of Commerce (Jr.),Latur.

Annual Topic Plan

Subject – Mathematics & Statistics - II

For the Academic Year 2021-22

Class – XIIth

Part – II Topic Wise Annual Plan (From- April to January)

Sr.No.	Name of Topic	Topic Contents	Tentative No. of Lectures
1.	Chapter-I Commission Brokerage & discount	<ul style="list-style-type: none"> • Introduction of commission and Brokerage Types of agent & it's commission 2 • Exercise 1.1 Q.1- 15 3 • Concept present worth, Sum due, True discount, Discounting a bill & it's debt 2 • Concept of Bankers discount, Cash value, Bankers gain & relation in between 4 • Exercise 1.2 Q.1- 15 3 • Miscellaneous Exercise Q.I to IV 2 • Objective and Activity 2 • Practical 2 	18
2.	Chapter-II Insurance & annuity	<ul style="list-style-type: none"> • Introduction of insurance & it types 1 • Concept of premium & policy value & claim 1 • Exercise 2.1 Q.1 to 14 3 • Introduction of annuity, it types & terminology 2 • Exercise 2.2 Q.1 to 16 3 • Miscellaneous Exercise Q.I to IV 2 • Objective and Activity 2 • Practical 2 	16
3.	Chapter-III Linear Regression	<ul style="list-style-type: none"> • Introduction, meaning and types of Regression, Least square method 1 • Exercise 3.1 Q.1 to 12 5 • Properties of Regression Coefficient 1 • Exercise 3.2 Q.1 to 12 4 • Mean of X,Y, standard deviation of X and Y and Regression coefficient and correlation coefficient relation and formulae 2 • Exercise 3.3 Q.1 to 14 3 • Miscellaneous Exercise Q.I to IV 4 • Objective and Activity 2 • Practical 2 	24

4.	Chapter-IV Time series	<ul style="list-style-type: none"> • Introduction of times series and uses of time series 1 • Components of time series 1 • Measurement of secular trend and its types 1 • Graphical method 1 • Method of moving average 1 • Method of least square 2 • Exercise 4.1 Q.1 to 10 5 • Miscelleneous Exercise Q.I to IV Objective and Activity 3 2 • Practical 2 	19
5.	Chapter-V Index Numbers	<ul style="list-style-type: none"> • Introduction of index numbers its Examples 1 • Types of index numbers and terminology 1 • Construction of index numbers methods 2 • Exercise 5.1 Q.1 to 13 3 Weighted aggregate method and it's types 1 • Exercise 5.2 Q.1 to 11 3 Cost of living index number and methods 2 • Exercise 5.3 Q.1 to 9 3 Miscelleneous Exercise Q.I to IV Objective and Activity 2 2 • Practical 2 	22
6.	Chapter-VI Linear programming	<ul style="list-style-type: none"> • Introduction of Linear programming problems and mathematical formation 2 • Exercise 6.1 Q.1 to 9 3 Feasible region by graphical method 2 • Exercise 6.2 Q.1 to 8 3 Miscelleneous Exercise Q.I to IV Objective and Activity 3 2 • Practical 2 	17
7.	Chapter-VII Assignment Problem and Sequencing	<ul style="list-style-type: none"> • Introduction to assignment problem, definition and it's solⁿ of by Hungarian Method 2 • Special cases of assignment problem 2 • Exercise 7.1 Q.1 to 6 3 Sequencing problem and types 2 • Exercise 7.2 Q.1 to 7 3 Miscelleneous Exercise Q.I to III Objective and Activity part I & II 2 2 • Practical 2 	18
8.	Chapter-VIII Probability distribution	<ul style="list-style-type: none"> • Introduction, definition and types of random variable 2 • Discrete random variable probability and distribution 2 • Probability mass function(p.m.f.) 2 • Cummulative distribution function(c.d.f.) 2 • Expected value, mean and variance of a random variable 1 • Exercise 8.1 Q.1 to 16 3 • Probability distribution of a continuous 	

		random variable and it's cumulative distribution	1	30
		• Exercise 8.2 Q.1 to 10	2	
		• Definition of Bernoulli trial Binomial distribution and it's mean and variance		
		• Exercise 8.3 Q.1 to 7	4	
		• Poisson Distribution	4	
		• Exercise 8.4 Q.1 to 7	2	
		Miscellaneous Exercise Q.I to III	5	
		• Objective and Activity part I & II	2	
		• Practical	2	

Part – II No. of Days Required for Examination

Exam Type	Exam Duration (In Days)	Syllabus
1) Unit Test – I	03	Chapter-1,2,
2) First Term Exam	06	Chapter-1,2,3,4,5
3) Unit Test – II	03	Chapter-6,7,8
4) First Practice Exam	06	All Syllabus
5) Second Practice Exam	06	All Syllabus
6) Application Based Test(ABT-Final Practical Exam.)	06	All Syllabus
Total Exam Duration (In Days)	30 Days	In Words: Thirty Days
A) The total no. of days required for the completion of Syllabus (Part-I) to be taken throughout the year = 164 Days		
B) The total no. of days required for Examinations (Part-II) to be held throughout the year = 30Days*		
C) Total No. of Days (A+B = C) i.e. 164 Days + 30 Days = 194 Days**		

The above “Annual Topic Planning” is prepared by all the Teachers of respective subject (Maths and Stats-II) sitting together

Sr.No.	Name of the Subject Teacher	Signature	Remark (If Any..)
1.	Dr.Burande A.M.		
2.	Kamble S.M.		
3.	Bansude S.S.		
4.	Mantri N.P.		

Co-ordinator

Supervisor