

Dayanand College of Commerce (Jr.),Latur.

Annual Topic Plan

Subject – Mathematics & Statistics - I

For the Academic Year 2021-22

Class – XIth

Part – I Topic Wise Annual Plan (From - July to March)

Section - A

Sr.No.	Name of Topic	Topic Contents	Tentative No. of Lectures
1.00	Chapter-I Sets & Relations	<ul style="list-style-type: none"> • Introduction of set, Representation, types, operations, venn diagram on sets • Exercise 1.1 • Relations, it's types & properties • Exercise 1.2 • Miscelleneous Exercise • Practical 	15
2.00	Chapter-II Functions	<ul style="list-style-type: none"> • Introduction of function & it's types of functions • Exercise 2.1 • Miscelleneous Exercise • Logarithmic table • Practical 	12
3.00	Chapter-III Complex Number	<ul style="list-style-type: none"> • Introduction of complex number & Conjugate & algebra of complex number • Exercise 3.1 • Square root of complex number • Exercise 3.2 • Cube root of unity • Exerose 3.3 • Miscelleneous Exercise • Practical 	14
4.00	Chapter-IV Sequence & Series	<ul style="list-style-type: none"> • Introduction of sequence, Geometric progression • Exercise 4..1 • Sum of the first n terms of a G.P. • Exercise 4.2 • Sum of a infinite terms of a G.P. • Exercise 4.3 • Harmonic progression • Typer of means • Exercise 4.4 	22

		<ul style="list-style-type: none"> • Special series • Exercise 4.5 • Miscellaneous Exercise Practical 	
5.00	Chapter-V Locus & Straight line	<ul style="list-style-type: none"> • Introduction of Locus & Shift of origin • Exercise 5.1 • Inclination of line, perpendiculars lines & Angle beth intersecting lines • Exercise 5.2 • Equations of lines in different forms • Exercise 5.3 • General Form of eqⁿ of line • Point of intersection of lines • The distance of the origin from a line, The distance of the point (x,y) from a line, The distance betⁿ two parallel lines • Exercise 5.4 • Miscellaneous Exercise • Practical 	23
6.00	Chapter-VI Determinants	<ul style="list-style-type: none"> • Introduction, Defⁿ of determinant of order 3 & Expansion • Exercise 6.1 • Properties of determinant • Exercise 6.2 • Applications of determinant-Gramers rule, Consistency of three linear equations, area of triangle & Co-linearity • Exercise 6.3 • Miscellaneous Exercise • Practical 	16
7.00	Chapter-VII Limits	<ul style="list-style-type: none"> • Introduction, definition of limit, Existence of limit of a function at a point x=a • Algebra of limits • Exercise 7.1 • Factori Zation Method • Exercise 7.2 • Rationalization method • Exercise 7.3 • Limit of exponential & logarithmic function • Exercise 7.4 • Miscellaneous Exercise • Practical 	18
8.00	Chapter-VIII Continuity	<ul style="list-style-type: none"> • Introduction, defⁿ of continuous & Discontinuous functions, Continuity at a point & properties of continuous functions • Exercise 8.1 • Miscellaneous Exercise • Practical 	11
9.00	Chapter-IX Differentiation	<ul style="list-style-type: none"> • Introduction & definition of derivative & Derivative by 1st principle rules & formulae 	14

		<ul style="list-style-type: none"> • Exercise 9.1 • Applications of Derivatives • Exercise 9.2 • Miscellaneous Exercise • Practical 	
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Part – II No. of Days Required for Examination

Exam Type	Exam Duration (In Days)	Syllabus
1) Unit Test – I (25 Marks)	03	Chapter No.1 to 2
2) First Term Exam (50 Marks)	06	Chapter 1 to 4 (On 50% of Syllabus)*
3) Unit Test – II (25 Marks)	03	Chapter 5 to 7
4) Annual Exam (80+20 Marks)	06	Chapter 1 to 9 (On 100% of Syllabus)*
5) Application Based Test/ Practical Exam (20 Marks) (ABT- Final Practical Exam.)	06	Chapter 1 to 9 (On 100% of Syllabus)*
Total Exam Duration (In Days) (1+2+3+4+5)	24 Days	In Words: Twenty Four Days.
A) The total no. of days required for the completion of Syllabus (Part-I) to be taken throughout the year = 145 Days*		
B) The total no. of days required for Examinations (Part-II) to be held throughout the year = 24 Days*		
C) Total No. of Days (A+B = C) i.e. 145 Days + 24 Days = 169 Days**		

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

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

Co-ordinator

Supervisor