



Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)

Department of Biotechnology

Structured Work Plan for Teaching

Academic Year 2018-19 (Term-II)

Details of Classes to be taught

Sr. No.	Class	Name of Asst. Professor	Subject	Paper
1	B.Sc. B.T.F.Y.	Mr. A. J. Waghmare	Biotechnology	Course Title: Biomathematics, Biostatistics & Computer Course Code: U-BBC-290


1. Summary of Lesson Plan

Name of Teacher: Mr. A. J. Waghmare

Class: B.Sc. BT. I (Second Semester)

Sr. No.	Subject	Unit and Chapter to be covered	Date	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Biotechnology	UNIT I Introduction, The set theory, Properties and Operations of sets, Linear constants, Quadratic equations, Functions and Relations. Limit of functions (basic idea of limit of functions without analytic definition), Derivative and Integration – introduction, application for simple algebraic and trigonometric functions. Logarithm, Binomial theorem for integers, Factorial, Permutation and Combination. Determinant and Matrices, Plotting of Graphs, Properties of functions from Graphs. Introduction to MATLAB software.	03-12-18 To 04-01-19	15L	Group Discussion	Unit – I
		UNIT II Statistics as statistical data: various types of data (Raw data, grouped data), Representation of data using frequency distribution diagram.				

	<p>diagram, Pie diagram) Graphs (Histogram, polygon, curve), Population, sample, sampling methods (SRS, Stratified sampling.)</p> <p>Measure of central tendency: Mean, Median, Mode. Measures of dispersion: Variance, Standard deviation, Coefficient of variance.</p>	05-01-19 To 29-01-19	14L	Home Assignment	Unit – II
	<p>UNIT III</p> <p>Probability Distribution: Standard probability distribution: Binomial, Poisson and Normal Hypothesis: Definition, Types (One tailed, two tailed), Sampling distribution and errors, Types of errors (Type I, II). Test of hypothesis: ANOVA (one way and Two ways), T - Test for paired sample, Chi square test.</p> <p>Correlation: Definition, types of correlation and Methods of studying correlation, Significance test for Correlation coefficient.</p> <p>Regression: Regression Lines, Regression equations and significance test for Regression Coefficient.</p>	30-01-19 To 26-02-19	10L	Seminar	
	<p>UNIT IV</p> <p>Introduction computers and its peripherals. Binary Number system, Low level and High-Level Language, Flow charts, Operating Systems, Introduction to various packages and software's, Use of MS Dos commands, Windows: Word and Excel.</p>	27-02-19 To 21-03-19	08L	Seminar	


Course Teacher


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