



Hindi Vidya Prachar Samiti's
Ramniranjan Jhunjunwala College
of Arts, Science & Commerce
(Empowered Autonomous College)

Affiliated to
UNIVERSITY OF MUMBAI
Syllabus for the T. Y. B.Sc. (under NEP)

Program: B.Sc. STATISTICS
Program Code: **RJSUSTA**
Semester V

(REVISED in alignment with the NEP2020 facilitating the inter-and multidisciplinary learning and multiple entry and exit of the students)

Level 5.5
(CBCS)

2025-2026

Preamble

T.Y.B.Sc. Semester V Statistics FP Syllabus

The National Education Policy 2020 aims at imparting skill-based learning and caters to the multiple entry and exit facility for the students thus empowering them to acquire knowledge at their pace. In the three-year UG program, the student has two exit options. Students also have the option for choosing the Honors program of four years study in a given discipline and later converting it to a five year integrated PG degree program. As an undergraduate student, he/she learns the core subject (Major), subject complementing the core subject (Minor), a course from another discipline (OEC or GEC) , and a Vocational and Skill Enhancement course from the Major (VSEC). The remaining verticals under NEP 2020 are IKS (Indian Knowledge System), AEC (Ability Enhancement Course), VEC (Value Enhancement Course) and with progressive three years of UG, student also completes at different levels OJT (On Job Training), FP (Field Projects), CEP (Community Engagement Program) , RP (Research Project) which helps him/her in understanding their roots, application of the knowledge for the benefit of self and the society. Vertical CC (Co-curricular activities and activities related to yoga and human well-being) helps in preparing youth with good character and interpersonal relationships.

Credit Structure for B Sc Semester V as per NEP 2020 Implemented**from the academic year 2025-2026****Course Code: RJFPSTA****Major Subject: Statistics****Semester V****Level 5.5 Major Statistics**

Courses	Credits	Total Credits	Course Code
Discipline Specific Core -I Probability and Distribution Theory	4	12	RJDSCSTA351
Discipline Specific Core -II Theory of Estimation	4		RJDSCSTA352
Discipline Specific Core -III Practical on DSC-I and DSC-II	4		Practicals related to Theory I and II RJDSCSTAP351
Discipline Specific Elective- I Biostatistics	4	4	RJDSESTA351
Discipline Specific Elective- II Mathematical Economics			RJDSESTA352
Vocational Skill Course (VSC) Regression Analysis Using R software	2	2	RJVSCSTA351
Vocational Skill Course (VSC) Practical	2	2	RJVSCSTAP351
Field Project (FP)	2	2	RJFPSTA351
Total Credits	22	22	

***As per University Grid**

Hindi Vidya Prachar Samiti's Ramniranjan Jhunjhunwala College of Arts, Science & Commerce
T.Y.B.Sc. Semester V Statistics FP Syllabus

SEMESTER	:	V
TITLE OF THE SUBJECT/COURSE	:	FIELD PROJECT
COURSE CODE	:	RJFPSTA351
CREDITS	:	02
DURATION	:	60 HOURS

LEARNING OBJECTIVES
1. To identify real-life problems and design a small-scale field study and collect data using suitable statistical tools.
2. To apply advanced statistical techniques for data analysis and meaningful interpretation.
3. To enhance professional skills including project planning, teamwork, communication, and report writing.

COURSE OUTCOME NUMBER	On completing the course, the student will be able to:	PSO Addressed	BLOOMS LEVEL
CO1	understand and define a real-world problem, and plan how to study it using statistics.	1,2,3,4	BT Level II, III, Understand and apply
CO2	design a questionnaire or choose a suitable method to collect data, and carry out the data collection process	1, 4	BT level II and III Understand and apply
CO3	use statistical techniques to analyze data, present results clearly, and write a proper report.	1,2,4,5,9	BT level II, III and IV Understand, apply and analyse

Course Content : 2 Credits

Duration 60 Hour

The Department of Statistics will mentor students for field projects in various fields such as education, economy, health, medical, social issues etc. In these projects students would identify topics, define objectives, prepare questionnaires, collect data, write reports and present it.

Field Project Undergraduate level

Submission of Field Report

Course Code: RJFPSTA351

CREDITS: 2 MARKS 50

Name of the student: _____

Title of Project: _____

Department of Statistics

Course Code: **RJFPSTA351**

UID No. _____

Roll No: _____

Place one tick in each appropriate row. Overall mark should reflect the position of ticks in the individual rows. In boxes that have more than one set of marks, cancel out the marks that are not applicable and circle the correct marks.

Assessment Grid:

Project Work and report (parameters)	Marks	80-100% Excellent	60-80% Good	40-60% Satisfactory	20-40% Average
Project work	20	20/19	18/17	16/15	14/13
Report writing and Bibliography	20	20/19	18/17	16/15	14/13
Project presentation and Conclusion sharing	10	10/9	8/7	6/5	4/3

Marks: _____/50

Name and Signature of the Faculty:

Date: _____

T.Y.B.Sc. Semester V Statistics FP Syllabus**Mapping of the course to Local/ Regional/National/International relevance**

Class	Course Name	Course Code	Local relevance	Regional relevance	National relevance	International relevance
T Y B Sc Statistics Major	Field Project	RJFPSTA351	Help understand and address community-specific issues, enabling targeted improvements at the grassroots level.	Data collected contributes to understanding trends and needs across cities or districts, supporting better planning and policies.	Findings can highlight broader social and economic patterns, supporting informed decision-making at the national level.	Promote global awareness by aligning with international goals such as the UN Sustainable Development Goals (SDGs).

Mapping of the course to Employability/ Entrepreneurship/Skill development

Class	Course Name	Course Code	Topic focusing on Employability/ Entrepreneurship/skill development	Employability/Entrepreneurship/Skill development	Specific activity
T Y B Sc Statistics Major	Field Project	RJFPSTA351	Application of statistical knowledge through real-life field studies.	Enhancement of analytical thinking, teamwork, communication, and project management skills	Field trips, data collection, report writing, and presentation of results.

Integration of Cross cutting Issues

Class	Course Code	Cross Cutting Issues
Statistics Field Project	RJFPSTA351	Ethics, Environment Sustainability, Partnership for the Goals, Health and wellbeing UNSDG 4,8,9,11,13, 17 NEP2020 Interdisciplinary/Multidisciplinary