

Sant Gadge Baba Amravati University, Amravati  
Faculty : Humanities

Three Years – Six Semester Bachelor’s Degree Programme

For Degree of Bachelor of Arts – Statistics

Syllabus Statistics Semester I

Vertical c Generic / Open Elective Statistics OE 1

Course Outcomes :

After completing this course students will be able to

1. Understand the basic concepts of random experiment, random variable, probability, etc.
2. Use concept of probability in real life situations.
3. Compute probability of real-life events.

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max. Marks
4.5	I	665203	Elementary Statistics	2		2 Hrs	30

Serial No.	Contents	Workload Alloted	Weightage of Marks Alloted
Unit I	Introduction to Statistics 1.1 Meaning, origin and development of Statistics 1.2 Various definition of Statistics 1.3 Importance and Scope of Statistics 1.4 Limitations and Distrust of Statistics	7 Hrs	7 Marks
Unit II	Data Structure 2.1 Definition and concept of Data 2.2 Population and Sample with example, sample survey and its need 2.3 Types of data: Quantitative, qualitative, nominal, ordinal 2.4 Frequency and Non-Frequency data, Discrete, continuous data, time series data.	8 Hrs	8 Marks
Unit III	Data Collection 3.1 Requisites of reliable data 3.2 Method for collection of primary data (direct personal interview, indirect and interview, information from correspondents, mailed questionnaire method) 3.3 Difference between primary and secondary data. 3.4 Sources of Primary and Secondary data	7Hrs	7 Marks
Unit IV	Introduction to Probability 4.1 Unprobabilistic and Proabilistis Phenomenon 4.2 Basic terminology in probability 4.3 Mathematical and Statistial probability – definition and limitations 4.4 Simple problems on probability	7Hrs	7 Marks

References :

Course Material/Learning Resources

Text books:

- 1) मुलभूत सांख्यिकी प्रा. राम देशमुख विद्याप्रकाशन
- 2) संख्यात्मक तंत्रे प्रा. राम देशमुख विद्याप्रकाशन
- 3) सांख्यिकीमुलभूततंत्रे : प्रा. पुरुषोत्तम नवघरे

Reference Books:

- 1) Bhat B.R. Shrivenkaraman T and RaoMadhava K.S. (1996) : Statistics: A Beginners's Text Vol.1, New Age International (P) Ltd.
- 2) Goon A.M., Guptam M.K., Dasgupta B: Fundamental of Statistics, Vol 1, 2, World Press Calcutta.
- 3) Croxton F.E. , Cowden D.J.andKelin S: Applied Generatl Statistics, Prentice Hall India
- 4) Gupta S.C. ,Kapoor V.K. : Fundamental of Mathematical Statistics; S. Chand & Company

