

Sri Dev Suman Uttarakhand University
Badshahithaul, Tehri Garhwal

B.A./ B.Sc. Statistics Syllabus-2019-20

Courses in the B.A./B.Sc. Programme at a Glance

First Year

Course Code	Title of the Paper
STAT/C-101	Statistical Methods and Applied Statistics
STAT/C-102	Probability Theory And Theoretical Distributions
STAT/C-103	Statistical Inference
STAT/P-104	Practical

Second Year

Course Code	Title of the Paper
STAT/C-201	Numerical Analysis, Computer Intensives And Operation Research
STAT/C-202	Sampling Theory
STAT/C-203	Testing of Significance
STAT/P-204	Practical

Third Year

Course Code	Title of the Paper
STAT/C-301	Analysis of Variance & Design of Experiments
STAT/C-302	Theory of Attributes And Quality Control
STAT/C-303	Population Studies
STAT/P-304	Practical

Asyadael OR

First Year: 2020 – 2021

Environmental Science

Practical

Duration 4 Hrs

M.M.: 50

	Regular	Ex - Students
1. Major Exercise	15	15
2. Minor Exercise	10	10
3. Spots	15	15
4. Viva – Voice	05	10
5. Record	05	-
Total	50	50

ENVIRONMENTAL SCIENCES

PRACTICALS

1. Examination of Soil:

- i) Determination of soil structure
- ii) Determination of soil texture
- iii) Determination of soil moisture
- iv) Determination of soil organic matter
- v) Study of soil profile
- vi) Quantitative estimation of carbonate / bicarbonates / chlorides
- vii) Estimation of percentage of calcium carbonate by rapid titration method
- viii) Water holding capacity, wilting coefficient and specific gravity, bulk density, porosity.

2. Community studies:

To determine the minimum size of a quadrat for a grassland / forest by species area curve method.

Determination of frequency, density, abundance and IVI with the help of Quadrat method.

To determine the index of dominance in a grassland community.

3. Aquarium as an ecosystem.

4. Determination of rate of production by harvest method.

5. Rapid field tests for pH, carbonate, nitrate and chloride.

ENVIRONMENTAL SCIENCES

BOOKS RECOMMENDED:

- 1 E.P. Odum: Fundamentals of Ecology , Saunders (3rd Edition)
- 2 Subhramanyam and Sambhamurthi : Ecology
- 3 K.C. Agarwal: Fundamentals of Environmental Biology. Nidhi Publishers, Bikaner.
- 4 V.Verma: Plant Ecology (4th Edition) Emkay Publishers.
- 5 Paul Colinvaux: Ecology, John Wiley and Sons.
- 6 P.D.Sharma: Ecology and Environment, Rastogi Publications, Meerut.