

MAJOR BASED ELECTIVE II - BIOSTATISTICS & COMPUTER APPLICATION IN BOTANY

Theory:-

Unit I

Bio statistics – Definition of bio-statistics, statistical terms – random Sampling – approximation of data – statistical error-logarithms.

Unit II

Frequency distribution-graphical representation- distribution of data in Biology – mean, median and mode – measure of dispersion, standard deviation, standard error -coefficient of variation-limits of the mean – Probability- - Chi square test for goodness of fit.

Unit III

History of computers, Types of Computers, Basic computer concepts, parts of a computer-input (key board, Mouse) and Output devices (Monitors, Printers), computer memory (RAM,ROM), Storage Devices (Floppy disk, Compact disk, Hard disk), Central Processing Unit, Software, Hardware, Computer peripherals – Mouse, Modem.

Unit IV

Computer Network (LAN,WAN), DATA-Representation- Number systems- Binary, arithmetic, Organizing information- the database – definition-Data entry indexing – storage – retrieval – Operating systems – WINDOWS 2000

Unit V

- a). Word Processing software MS-Office.
- b). DESKTOP PRINTING(DTP)- Application software like- ADOBE Pagemaker, Corel Ventura and Microsoft Publisher and their uses.
- c). A Basic knowledge of Networking-Internet-email facilities, terminology connected with them and their uses in Botany. No Practical for this paper. Only Demonstration of computer application in Botany at The Computer Science Department Laboratory (or) wherever a PC facility is available In the college.

Text Books:

1. Khan & Knanum : Fundamentals of Biostatistics, Ukkax publications, Hyderabad
2. R. Thiagarajan: Computers for Beginners Pvt., Ltd., Madras

Reference Books:

1. Mandal & Nambiar : Agricultural Statistics, Agrobios Publications, Jodhpur
2. P. Parihar: Biostatistics & Biometry, Agrobios Publications, Jodhpur
3. S. Palanichamy & M. Manoharan : Statistical methods for Biologists, Palani Paramount publications, New Delhi
4. N. Ramakrishnan: Fundamentals of Biostatistics, Sarao Publications, Naaagercoil
5. Peter Norton: Introduction to Computers, Tata MC Graw Hill Publishing Co., New Delhi
6. Ramesh Bangia: The Complete Computer course Cyber Tech. Publishers, New Delhi
7. M. Lotia, P. Nir & P. Lotia, Modern Computer Hardware course BPB Publishers, New Delhi
8. Texali: Lordstar professional 4.0 made simple. Tata Mc Graw Hill Publishing Co., New Delhi.