Information Technology for plant Science.

F. (COMPUTER APPLICATION IN BOTANY)

UNIT. I. Computers – definition, history, types and uses. Organization of digital computers, input devices, processing units, memory, output devices, other parts.

UNIT II. Interpreters, compilers, operating system (MS-DOS)(MS-WINDOWS).

UNIT III. Algorithms, flow chart, representation of numbers and characters.

UNIT IV Programming languages, low and high level languages.

Basics of programming in BASIC and FORTRAN with special reference to biological applications.

UNIT V. Computer programmes for the nucleic acid, protein synthesis, biomolecular structure, disease fore-casting, Mathematical modeling, Ecology, Taxonomy and related problems.

References and Books for computer applications in Botany

Dummies- Windows 98

Dummies- Internet

e-mail for Dummies

Rapidex computer course- Pushtak mahal, New Delhi

Rick Altman- Corel Draw &, Fourth edition, BPB Publications, New Delhi

Training guide to Microsoft Office- 98- BPB Publications, New Delhi

Training guide to Microsoft Excel

ABCs of DOS

Mastering local area networks

Nucleic acids and protein sequence analysis a practical approach, Edited by Bishop and Rawlings, IRL Press, Oxford.

Micro Computers in Biology, IRL Press, Oxford.

Rod Green-shields, Resources and applications of Biotechnology., The Macmillan Press Ltd., London.

Roger L. Miesfield, Applied Molecular Genetics, Wiley - Liss, A John Wiley & Sons, Inc., Publications, New York.

B.K.Chaturvedi- Basic Computer Knowledge, Diamond Pocket Books Pvt.Ltd., New Delhi.

Utpal Mallik- Computers in the Biology Classroom, NCERT Publications, New Delhi. Bly, R.W.- The Puffin Dictionary of Computer Words- Penguin Books Australia Ltd.,

Ringwood, Victoria, Australia.

Tapan Bhattacharya- His Master's Slave, Publications & Information Directorate, Dr. K. S., Krishnan Marg, New Delhi.

John Cookson and Lain Richmand- Programming in Basic, John Wiley & Sons, N.Y. IBM PC DOS and Microsoft Windows User's Guide(1995).

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