सिद्धार्थ विश्वविद्यालय, कपिलवस्तु, सिद्धार्थनगर

Syllabus of Pre-Ph.D. course work
Subject: ZOOLOGY
Paper I : Research Methodology

Unit I   Review of literature: Review Process and Bibliography, Locating Literature Publications (scientific database: science direct and pubmed), Publication Ethics, Research Plan and its Components, Difficulties in Biological Research, Identification and formation of Research Problem.

Unit II   Materials and Methods, Details required about the Materials, General Guidelines and Brief idea about Safety, Hazards and Precautions in Laboratory, Animal Handling and Ethics, Methods of Testing Hypothesis, Methods of Research (sampling, commonly used techniques like chromatography, spectroscopy, centrifugation etc.)

Unit III   Writing results of Research Proposal, Report and Research Paper: Voice, Tense and Style, Sequence, Structure, Content and Data Analysis, Preparation of Tables, Introduction and Placement of Table, Table Format, Preparation of Figures, Types and Selection of Figures, Placement of Figures, Numbering and Caption of Tables and Figures, Preparation of Statistical Diagrams, Preparation of Photographs and Micrographs.

Unit IV   Writing Abstract, Summary, Synopsis and Discussion: Abstract and Keywords, Summary, Synopsis of Research Plan, Paper and Thesis, Style and Sequence of Discussion, Structure and Content of Discussion, Format of Discussion.

Unit V   Preparing for Oral Presentation: Preparation of Script, Presentation using Audio Visual Aid, Ethical, Legal and Social Issues in Research, A Brief idea about Funding Agencies (DST, DBT, CSIR, UGC), Role of IPR in Research and development.

Books Recommended:
1. Research Methodology- G. R. Basotia and K. K. Sharma
2. Research Methodology- C. H. Chaudhary, RBSA Publication

Paper-Second : Basic Computer Application

Unit-One
Computer Fundamentals,
What is Desktop PC System?
Working of a Monitor,
Keyboard,
Mouse,
Hard Disk,
Compact Disk and Printer

Unit-Two
Working with the Control Panel
Customize your Desk top
Working with files and folders

Unit-Three
Features of MS-Word
Working with MS-Word, Formatting documents and texts

Unit-Four
Introduction to Excel and Power Point Presentation

Unit-Five
Working on Internet and e-mail