Syllabus for PhD Course Work in Botany (2011-12)

There will be two papers; one each with 100 maximum marks

Research methodology, Advance Tools & Techniques, Quantitative Data Paper-I

Analyses and Computer Fundamentals, Taxonomic & Ecological Data

Analysis.

Paper-II Review of Literature & Seminar

Paper-II Review of Literature & Seminar		
Paper-I Research methodology, Advance Tools Quantitative Data Analyses and Computer Taxonomic & Ecological Data Analysis.	& Techniques, Fundamentals,	Maximum Marks
A Research methodology Essential steps in research: Identification, Selection of objet design:- components, importance of literature collection indexing. Research ethics, IPR, Research report Presentation Formatting and typing.	ion, citation &	25.0
B Advanced Tools & Techniques Advanced microscopy-confocal phase contrast & electr Electrophoresis, HPLC, PCR, DNA & Protein spectrophotometery.		25.0
C Quantitative Data Analysis and Computer Fundamentals Standard deviation, standard error, coefficient of variation regression, t-test, frequency distribution. Computer Applications Softwares for biostatistics, SPSS, COSTAT, MS WORD, MS Expoint		25.0
D Taxonomic & Ecological Data Analysis Morphological basis of plant Identification, Taxonomy in rela & Biochemistry. Environmental sampling methodology. Isolation, preservation & Identification of micro organisms.	tion to cytology	25.0
Paper –II Review of Literature & Seminar		Maximum Marks
Review of Literature- Writing review of literature in the proposed Ph.D program.	ne area of the	50.0
/ Seminar-Based on the review of literature Note:		50.0

There will be FOUR units (A, B, C &D) of 25 marks each. The pattern will 1) include both objective (multiple-choice questions) and objective (short answer, using 50 to 100 words) questions.

2) The candidate must be obtained 50% or more marks to qualify in the course work. The answer paper will be assessed independently by two examiners.