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Ph.D. Course Work Syllabus

BOTANY

Session 2020-21

SYLLABUS FOR Ph.D COURSE WORK IN BOTANY (2020-2021)

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

Paper-I Research methodology, Advance Tools & Techniques, Quantitative Data Analyses and Computer Fundamentals, Taxonomic & Ecological Data Analysis.

Paper-II Review of Literature & Seminar

Paper-I Research methodology, Advance Tool & Techniques		Maximum
Quantitative Data		Marks
Analyses and Computer Fundamentals, Taxonomic & Ecological Data Analysis.		
	Essential steps in research; Identification, Selection of objectives, Research	
	design:- Components, Importance of literature collection, Citation &	
	indexing. Research ethics, IPR, Research report Presentation-table, Figure,	
	Formatting and typing.	
В	Advanced Tools & Techniques	25
	Advanced microscopy-confocal phase contrast & electron microscopy,	
	Electrophoresis, HPLC, PCR, DNA & Protein sequencing,	
~	spectrophotometery.	
С	Quantitative Data Analysis and Computer Fundamentals	25
	Standard deviation, standard error, coefficient of variation, correlation &	
	regression, t-test, frequency distribution.	
	Computer Application	
	Software for biostatistics, SPSS, COSTAT, MA WORD, MS EXCEL, MS	
Т.	Power Point	25
D	Taxonomic & Ecological Data Analysis	25
	Morphological basis of plant identification, Taxonomy in relation to	
	cytology & Biochemistry,	
	Environmental sampling methodology.	
	Isolation, preservation & Identification of micro organisms.	
Paper-II Review of Literature & Seminar		Maximum
гаре	1-11 Review of Literature & Seminar	Marks
A	Review of Literature – Writing review of literature in the area of the	50
A	proposed Ph.D program.	50
	Seminar – Based on the review of literature.	50

Note:

- 1. There will be FOUR units (A,B,C& D) of 25 marks. The pattern will 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.