SCHOOL OF STUDIES IN BIOTECHNOLOGY

Pt. Ravishankar Shukla University Raipur-492 010

Syllabus

Ph.D. Course Work in Biotechnology

Session 2017-2018

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BoS approved syllabus for Ph.D. Course Work in Biotechnology (Academic session 2017-18)

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School of Studies in Biotechnology Syllabus for PhD Course Work in Biotechnology (2017-18) One Semester

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

Paper-I: Research Methodology, Advanced Tools & Techniques, Quantitative Data Analyses and Computer Fundamentals

Paper-II Review of Literature & Seminar

Paper-	I: Research Methodology, Advanced Tools & Techniques,	Maximum Marks
	Quantitative Data Analyses and Computer	
	Fundamentals	
A	Research Methodology Essential steps in research: Identification, Selection of objectives, Research design: - Components, importance of literature collection, citation & indexing. Research ethics, IPR, Experimental error and control, Research Report Presentation-table, Figure, Formatting and typing	25.0
В	Advanced Tools & Techniques	25.0
	Electrophoresis, HPLC, Microscopy, PCR, Biosensors: Types,	
	Application of biosensor, Protein sequencing, DNA sequencing,	
	Radioisotope Techniques	
C	Quantitative Data Analysis	25.0
	Measures of variability: Standard Deviation, Standard Error, Coefficient	
	of Variation, Correlation and Regression, Test of Significant: t-test, chi-	
	square test, Frequency distribution: Binomial and normal distribution	
D	Computer Fundamentals	25.0
	Computer Application, Application of software, Internet and	
	Biotechnology, Fundamental of Bioinformatics, Biological databases	
	and Biotechnology	
Paper-II: Review of Literature & Seminar		Maximun Marks
A	Review of Literature- Writing review of literature in the	50.0
	area of the proposed Ph.D. program	
В	Seminar-Based on the review of literature	50.0

Note:

- 1. There will be FOUR units (A, B, C & D) of 25 marks each. The pattern will include both objective (multiple-choice questions) and subjective (short answer, using 50 to 100 words) questions.
- 2. The candidate should obtain 50% or more marks to qualify in the course work examination. Each answer paper will be assessed by two examiners independently.

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