

Ph.D.course work syllabus of,Zoology

<b>Paper-I: Subject Upgradation</b>		Marks
	Unit-I	10
	1.Plant allelochemicals- role in insect-plant interaction. 2.Advancement in aquaculture. 3.Concept of host-parasitic specificity.	
	Unit- II	10
	1. Genetic technologies 2.Zoonosis and zoonotic diseases. 3.Current knowledge in biodiversity.	
	Unit-III	10
	1.Cell Signaling. 2.Concept of biomarkers.	
	Unit-IV	10
	Seminar on selected topic given by supervisor	
	Viva	10
	<b>Total</b>	<b>50</b>
<b>Paper-II: Research Methodology including Computer Application</b>		
	Unit-I ( <b>Instrumentation</b> )	25
	Principles and application of : i. UV Visible Spectroscopy / AAS. ii. Ultra Centrifugation / HPLC iii. Scanning Electron Microscopy.	
	Unit-II ( <b>Methods</b> )	25
	1.Western Blotting 2.PCR Technique 3.Quantitative estimation of glycogen and protein	
	Unit-III <b>Computer application</b> Project to be developed by student in consultation with supervisor.	30
	Viva	20
	<b>Total</b>	<b>100</b>
<b>Paper-III Literature Review</b>		
	Review on topics selected by supervisor	40
	Viva	10
	<b>Total</b>	<b>50</b>
	<b>Grand Total</b>	<b>200</b>

Subject- Zoology

## Ph.D. Course work syllabus