Course title: Origin and diversity of life			
Course code: UBT 101	No. of credits: 2	L-T-P: 30-0-0	Learning hours: 30
Pre-requisite course code and title (if any): Class 12 or equivalent in Science			
Department: Department of Biotechnology			
Course coordinator: Prof. Shashi Bhushan Tripathi		Course instructor: Prof. Shashi Bhushan Tripathi	
Contact details: shashi.tripathi@terisas.ac.in			
Course type: Major		Course offered in: Semester 1	

Course description: The course intends to provide the students with a broad understanding of different life forms, similarity and variations among and between different taxa of plants (nonflowering and flowering) and animals (both invertebrates and vertebrates). It introduces students to the concept of classification and the utility of morphological, biochemical, anatomical and functional diversity in classification of major groups of living organisms. Further, it provides the students with the concept of molecular basis of evolution as to how different group of organisms arose, and how the DNA sequence information helps in understanding the interrelatedness of different taxonomic groups.

Course objectives:

- To provide a broad understanding of diversity of life from microorganisms and fungi to plants
- To familiarize the students to key concepts of evolution, speciation and extinction
- 3. To familiarize the student to applications of DNA sequence data for identification and classification of organisms