

Course title: Biological Chemistry			
Course code: UBT 103	No. of credits: 4	L-T-P: 60-0-0	Learning hours: 60
Pre-requisite course code and title (if any): None			
Department: Department of Biotechnology			
Course coordinator: Dr. Chaithanya Madhurantakam		Course instructor: Dr. Chaithanya Madhurantakam / Dr. Souren Paul / Dr. Nidhi Gupta	
Contact details: chaithanya.madhurantakam@terisas.ac.in			
Course type: Major		Course offered in: Semester 1	
Course description: he course aims to provide students with basic concepts and to introduce them to the molecular study of interactions observed among biological macromolecules. The knowledge of biochemistry is a necessity for the students to understand the complex molecular functions of living systems. This course will provide a detailed information on the chemical nature of all biological macromolecules, which further leads onto the study of metabolic pathways and signaling mechanisms. Further, this course will deal with the bioenergetics of major pathways.			
Course objectives: 1. To familiarize students with solution chemistry. 2. To acquaint students with basic concepts on structure and function of macromolecules 3. To introduce students to enzyme technology, with a focus on enzyme kinetics and applications. 4. To provide students with fundamentals of bioenergetics and thermodynamics.			