ASSESSMENT:	Summative:		
	1 st assessment: Midterm Examination (Multiple choice and /or short answers/essay questions)	40%	
	2 nd assessment: Portfolio (assignments aimed at the preparation of written assessments and scientific communication)	10%	
	Final assessment: Final Examination (2 hours) (Multiple choice and /or short answers/essay questions)	50%	
	Formative:		
	Homework	0	
	The formative Homework aims to prepare students for the summative assessments. The 1 st Assessment tests Learning Outcomes 1 and 2 The 2 nd Assessment tests Learning Outcome 3 The Final Assessment tests Learning Outcomes 1,2 and 4		
INDICATIVE READING:	REQUIRED READING: Tansey J.T., Biochemistry: An Integrative Approach with Expanded Topics, (Latest Edition), Publisher: Wiley. ISBN: 9781119402633		
	RECOMMENDED READING: Stryer L., Biochemistry, (latest Edition), Publisher: Freeman. ISBN: 1319114679 Other sources, including journal and newspapers' articles, research papers etc. recommended by the instructor throughout the semester.		
INDICATIVE MATERIAL: (e.g. audiovisual, digital material, etc.)	REQUIRED MATERIAL: N/A		
ctc.,	RECOMMENDED MATERIAL: Molecular Model Set		
COMMUNICATION REQUIREMENTS:	Verbal and written skills using academic / professional English		
SOFTWARE REQUIREMENTS:	MS Office and Blackboard CMS		
WWW RESOURCES:	 Royal Society of Chemistry: www.rsc.org/learn-chemistry American Chemical Society: www.acs.org Online Resources for Teaching and Learning Chemistry: www.chemcollective.org/ 		
INDICATIVE CONTENT:	 Bioenergetics and thermodynamics Energy transfer processes Protein structure and function Amino Acids: Structure and Properties Peptide bond, Peptides Proteins Structure Non-Enzymatic Protein Function 		

	· Enzyme Function
	· Enzyme Kinetics
3.	Carbohydrates structure and function
	· Monosaccharides
	· Oligo and Polysaccharides
	· Lipids
	· Fatty Acids and Triglycerides
	· Membrane Lipids: Structure and Processes
4.	Metabolic Pathways
"	· Carbohydrate Metabolism
	· Fatty Acid and Protein Metabolism
	· Regulation of Metabolic Pathways
	·
	· Enzyme Cascades
5.	Nucleic Acids
	Structure
	· Replication of DNA
	· Regulation of Gene Expression
	· DNA Technology
6.	Clinical Biochemistry
	· Principles and Applications of Clinical Biochemistry
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