

## ***Module Specification:***

### ***Credit Hours:***

**4(3+1)**

### ***Course Description:***

The students will gain the basic biochemical knowledge necessary to meet the institutional objectives and goals for general biochemistry. In addition to basic biochemistry, students will acquire information emphasizing carbohydrate, lipids, co-enzymes, vitamins, nucleic acids and general metabolic pathways of these macromolecules.

### ***Topics to be Covered:***

1. The cell structure and organelle functions
2. Biological buffers
3. Amino acids
4. Peptides and proteins
5. Enzymes
6. Carbohydrates
7. Lipids
8. Metabolism of carbohydrates
9. Metabolism of Lipids
10. Metabolism of proteins
11. Nucleic acids
12. Hormones
13. Vitamins
14. Chemistry of blood

### ***Marks Distribution:***

**100 marks divided as following:**

First Continuous Exam	<b>15 marks</b>
Second Continuous Exam	<b>15 marks</b>
Practical Work	<b>30 marks</b>
Final Exam	<b>40 marks</b>