**Biochemistry**

**GC/Bchem-201**

**Checklist of Course Content**

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| **Course Content** | **Sources of Course Material** |
| 1. **Physical Aspects of Biochemistry**   **a) Buffers and Buffer solutions**  **b)Indicators and choice of suitable indicator** | * <https://www.slideshare.net/zoraizhaiderzoraizhaider/buffers-60163379> * <https://www.slideshare.net/RIZWANABBAS3/buffer-solution-81189860> |
| 1. **Hydrogen ion concentration** | * <https://www.slideshare.net/ECRD2015/measurement-of-hydrogen-ion-concentration-p-h> * <https://www.slideshare.net/ECRDIN/hydrogen-ion-concentration> |
| 1. **Colloidal solution with water as dispersing liquid** | * <https://www.slideshare.net/RIZWANABBAS3/colloids-81189444> * <https://www.slideshare.net/devadevi666/colloids-presentation-slides-67383606> |
| 1. **Osmosis and osmotic pressure, surface tension and emulsions** | * <https://www.slideshare.net/makoye1954/colligative-properties-111544776> * <https://www.slideshare.net/Urendersingh/last-50698919> |
| 1. **Sources of important ions calcium, magnesium, iron, sulphur and iodine** | * <https://www.slideshare.net/thelawofscience/ions-14227838> |
| 1. **Carbohydrates introduction, classification, biological oxidation and neutralization** | * [www.slideshare.net/SaifulIslam750/carbohydrates-and-its-classification](http://www.slideshare.net/SaifulIslam750/carbohydrates-and-its-classification) * <https://www.slideshare.net/syed_ismail/carbohydrates-28872311> |
| 1. **Fats, introduction, classification, biological oxidation** | * <https://www.slideshare.net/drjayeshpatidar/fats-as-a-nutrient> * <https://www.slideshare.net/daxamehta/fats-29486179> |
| 1. **Proteins introduction, classification, amino acids and their classification and biological utilization of urea cycle** | * <https://www.slideshare.net/sidrajaved2/proteins-62894897> * <https://www.slideshare.net/DeepakKumarGupta2/proteins-50519365> |
| 1. **Enzymes introduction, classification, mode of action, factors affecting activities and application.** | * <https://www.slideshare.net/ArunViswanathan3/enzyme-199841983> * <https://www.slideshare.net/virgo_az/enzymes-67777081> |
| 1. **Blood circulatory system Composition and chemistry of blood synthesis.** | * <https://www.slideshare.net/nithin_87/blood-64034444> * <https://www.slideshare.net/KhanSaif2/blood-composition-and-function> |
| 1. **Hormones Introduction, classification, chemical nature, role of hormones in the regulation of metabolism.** | * <https://www.slideshare.net/Sanzux/harmones-cology-ppt-finalppt1> * <https://www.slideshare.net/arshadchemist1/hormones-43307402> |