

Curriculum plan (Even Semester 2022-23)

Teacher Name: Dr. K. Vandana Rani

Paper name: ZH Core course X: Biochemistry of Metabolic Processes

Class type: Theory

Paper shared with: Dr. Rani

Unit to be taken	Allocated lectures	Month wise schedule to be followed	Tests/ Assignments/ Revision/ Presentations etc
Unit 2: Carbohydrate Metabolism Sequence of reactions and regulation of i) glycolysis, ii) Citric acid cycle, iii) Phosphate pentose pathway, iv) Gluconeogenesis, v) Glycogenolysis and vi) Glycogenesis	16	i) 3th -11th Jan2023 ii) 17th -25 th Jan2023 iii) 31st -1st Feb 2023 iv)7th – 14th Feb 2023 v) 21st - 22 th Feb 2023 vi) 28th Feb-1 st March 2023	Tests/ Assignments March 2023
Unit3: Lipid Metabolism i)β-oxidation and omega -oxidation of saturated fatty acids with even and ii) odd number of carbon atoms; iii)Biosynthesis of palmitic acid; iv) Ketogenesis		i) 14 th -21s March 2023 ii) 23th -29 rd March 2023 iii) 4 th -5 th April 2023 iv) 11 th -12 th April 2023 Revision: 21 st April2023 onwards	Tests/ Assignments March 2023

Name of Teacher : Dr. K. Vandana Rani

Signature

Curriculum plan (Even Semester 2022-23)

Teacher Name: Dr. K. Vandana Rani

Paper name: ZH Core course X: Biochemistry of Metabolic Processes

Class type: Practical (G1+G2)

Paper shared with: Dr. Rani

Unit to be taken	Allocated lectures	Month wise schedule to be followed G2 Group	Tests/Assignments/ Revision/ Presentations etc
1. Estimation of total protein in given solutions by Lowry's method	4	06.01.2023/13.01.2023	
2. Detection of SGOT and SGPT or GST and GSH in serum/ tissue	4	20.01. 2023/03.02.23	
3. To study the enzymatic activity of Trypsin and Lipase	4	10. 02.23-24.02.2023	Presentation
4. Study of biological oxidation (SDH) [goat liver]	4	03.03.23/17.03.22	
5. To perform the Acid and Alkaline phosphatase assay from serum/ tissue.	4	24. 03.23/31.03.2023	
6. Dry Lab: To trace the labelled C atoms of Acetyl-CoA till they evolve as CO ₂ in the TCA cycle	4	7. 04.23	Viva
Moc exam & Revision		14.03.2023-21. 04.23	File Evaluation

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Signature