

I – Academic Planner

H. Teaching Plan (Year : 2020-21 Semester: Odd /Even)

Teacher's Name: Dr. Renu Kathpalia Department: Botany

S l. N o .	UPC	Paper Name	Core /AE CC/ GE/ SEC	Topic/Unit	Start Date	End Date
1	3216 1102	Biomole cules and Cell Biology (Theory)	Core	Unit 1 Biomolecules Unit-2 Bioenergetics Unit-3 Enzymes	20-11- 2020 22-1- 2021 18-2- 2021	14-1- 2020 4-2- 2020 5-2- 2020
2	3216 1102	Biomole cules and Cell Biology (Practic al)	Core	1. Study of plant cell structure with the help of epidermal peel mount of Onion/Rhoeo/Crinum. 2. Study the phenomenon of plasmolysis and deplasmolysis. 3. Demonstration of the phenomenon of protoplasmic streaming in Hydrilla leaf. 4. Study different stages of mitosis. 5. Separate chloroplast pigments by paper chromatography. 6. Qualitative tests for carbohydrates, reducing sugars, non-reducing sugars, lipids and proteins. 7. Study of cell and its organelles with the help of electron micrographs. 8. Study the effect of organic solvent and temperature on membrane permeability. 9. Demonstrate the activity of Urease 10. Demonstration of the activity of Catalase 11. Demonstrate the activity of Amylase	On every Monday 23-11- 2020	15-02- 2021
3.	32161 601	Plant Metabol ism	Core	Unit1 Concept of Metabolism Unit 2. Carbon assimilation Unit 3. Carbohydrate Metabolism Unit4 Carbon Oxidation Unit 5. ATP synthesis Unit 6. Lipid Metabolism Unit 7. Nitrogen Metabolism Unit 8. Signal Transduction	5-01- 2021 12-01- 2021 3-02- 2021 9-02- 2021 2-03- 2021 9-03- 2021 23-03- 2021 13-04- 2021	7-01- 2021 2-02- 2021 4-02- 2021 25-02- 2021 4-02- 2021 18-03- 2021 8-04- 2021 22-04- 2021

2	32161601	Plant Metabolism	Core	<p>1. Isolate the chloroplast pigments by chemical methods.</p> <p>2. Demonstrate dye reduction by isolated chloroplasts</p> <p>3. To study the effect of light intensity on the rate of photosynthesis (at least three intensities)</p> <p>4. Compare the rates of aerobic respiration in different parts of a plant (at least three parts).</p> <p>5. To study the activity of Nitrate Reductase in leaves of two plant sources.</p> <p>6. To study the activity of urease enzyme and effect of substrate concentration on enzyme activity.</p> <p>7. To study the effect of carbon dioxide on the rate of photosynthesis (at least three intensities)</p> <p>8. Demonstration of fluorescence by isolated chloroplast pigments.</p> <p>9. Demonstration of R.Q.</p> <p>10. To demonstrate activity of lipase</p> <p>11. To demonstrate absorption and action spectrum</p>	4-01-2021	12-04-2021
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I. Internal Assessment: House Exam (Test/Presentation etc.) & Assignment*

Course Code	Course Name	Unique Paper Code	Topic Name	Day and Date	Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining
556	B.Sc.(H) Botany	32161102	Biomolecules and Cell Biology (Theory)	Assignment on Friday 18-12-2020 Presentation - 5 students per week on Thursday in extra period	
556	B.Sc.(H) Botany	32161102	Biomolecules and Cell Biology (Practical)	Test 5 th March-2021	10 th March-2021
556	B.Sc.(H) Botany	32161102	Plant Metabolism (Theory)	Test: Unit-2 on 10-02-2021 Test: Unit 3 and 4 on 4-03-2021 Presentation - 5 students per	15-04-2021

				week at the end of practical period	
556	B.Sc.(H) Botany	32161102	Plant Metabolism (Practical)	19-04-2021	26-04-2021

***Marks of the Internal Assessment to be submitted to the College 15 days before the last working day of every semester**