

## **ANNUAL CURRICULAR PLAN – LECTURER-WISE 2022-23**

**Semester: 1V**[illegible]

6	May 1 <sup>st</sup> week	4 2	<b>Photosynthesis and Photorespiration</b> 1 Photosynthesis: Photosynthetic pigments, absorption and action spectra; Red drop and Emerson enhancement effect.		Teaching Practical	3 2			Assign ment	1			
7	June 1 <sup>st</sup> week	4 2	Concept of two photosystems; mechanism of photosynthetic electron transport and evolution of oxygen; Photophosphorylation		Teaching Practical	3 2			Assign ment	1			
8	June 2 <sup>nd</sup> week	4 2	Carbon assimilation pathways (C3,C4 and CAM); Photorespiration - C2 pathway . <b>II MID EXAMINATIONS</b>		Teaching Practical	3 2			Group discussi on	1			
9	June 3 <sup>rd</sup> week	4 2	Nitrogen metabolism: Biological nitrogen fixation – asymbiotic and symbiotic nitrogen fixing organisms. Nitrogenase enzyme system. Lipid metabolism: Classification of Plant lipids, saturated and unsaturated fatty acids.	Structure of Nitrogenase enzyme	Teaching Practical	3 2			Assign ment	1			
10	June 4 <sup>th</sup> week	4 2	Anabolism of triglycerides, $\beta$ -oxidation of fatty acids, Glyoxylate cycle. Growth and Development: Definition, phases and kinetics of growth..		Teaching Practical	3 2			Student seminar	1			
11	July 1 <sup>st</sup> week	4 2	. Physiological effects of Plant Growth Regulators (PGRs) – auxins, Gibberellins, cytokinins, ABA, ethylene and brassinosteroids		Teaching Practical	3 2			Assign ment	1			
12	July 2 <sup>nd</sup> week	4 2	Physiology of flowering: Photoperiodism, role of phytochrome in flowering. Seed germination and senescence. Physiological changes during water stress.	Biological clock	Teaching Practical	3 2			Assign ment	1			
13	July 3 <sup>rd</sup> week	4 2	. Revision		Teaching Practical	3 2			Student seminar	1			
14	July 4 <sup>th</sup> week	4 2	Revision		Teaching Practical	3 2			Assign ment	1			

Signature of the Lecturer

Signature of the Lecturer in charge

Signature of the Principal

