

D.B.F. Dayanand College of Arts and Science, Solapur

COURSE OUTCOME

B.A. / B.Sc. / M.A. / M.Sc. : B.Sc.		
NAME OF SUBJECT : Botany		
SEM I / II / III / IV / V / VI : IV		
COURSE NUMBER (PAPER NUMBER) : VII		
TITLE OF COURSE (NAME OF PAPER): Plant Physiology and Cytogenetic.		
COURSE CONTENT	OBJECTIVES	OUTCOME
Unit 1: Photosynthesis: 1.1 Introduction and significance 1.2 Photosynthetic apparatus 1.3 Photosynthetic pigments, accessory pigments Photosystems – reaction center complexes 1.4 Light reaction-cyclic and non-cyclic 1.5 Dark reactions Calvin cycle, C4 cycle CAM.	To get the knowledge about the photosynthesis.	The student can understand about the How photosynthesis process carry out in plants.
Unit 2: Nitrogen metabolism 2.1 Introduction 2.2 Nitrogen cycle 2.3 Biological N ₂ fixation – Definition, types & organisms involved 2.4 Mechanism of Biological Nitrogen fixation 2.5 Significance of Biological Nitrogen fixation.	To get the knowledge about the Nitrogen metabolism.	The student can understand about the Nitrogen metabolism.

<p>Unit 3: Genetics- 3.1: Introduction, terminology 3.2: Mendelism- History 3.3: Principles of inheritance- Low of dominance, Law of purity of gametes, Law of independent assortment. 3.4: Gene interaction- Definition, types- complementary, supplementary and inhibitory genes.</p>	<p>To get the knowledge about the basic concepts and principles of genetics.</p>	<p>The student can understand about the Basic concepts and principles of genetics.</p>
<p>Unit 4: Classical genetics 4.1: Linkage-Definition, kinds of linkage-complete, incomplete and linkage groups, Significance of linkage. 4.2: Crossing over-definition, Mechanism of crossing over, Break and exchange theory, Significance of crossing over.</p>	<p>To get the knowledge about the linkage and crossing over.</p>	<p>The student can understand about the Linkage and crossing over.</p>
<p>Unit 5: Multiple allelism- 5.5: Introduction and definition 5.2: Eye color in Drosophila 5.3: Blood groups in man 5.4: Self incompatibility in plant.</p>	<p>To get the knowledge about the multiple alleles.</p>	<p>The student can understand about the Multiple alleles.</p>

Signature of HOD