

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

## COURSE OUTCOME

<b>B.A. / B.Sc. / M.A. / M.Sc. – B.Sc.</b>		
NAME OF SUBJECT - <b>Botany</b>		
SEM I / II/ III/ IV / V / VI- V		
COURSE NUMBER ( PAPER NUMBER) - <b>XI</b>		
TITLE OF COURSE (NAME OF PAPER)- <b>Plant Physiology</b>		
COURSE CONTENT	OBJECTIVES	OUTCOME
<b>Unit 1: Plant-water relations:</b> 1.1: Introduction. 1.2: Water Potential and its components. 1.3: Water absorption- root pressure and guttation. 1.4: Ascent of sap– cohesion-tension theory. 1.5: Transpiration- mechanism and factors affecting on transpiration.	To get the knowledge about the plant- water relation.	The student can understand about the Plant –water relation.
<b>Unit 2: Mineral nutrition:</b> 2.1: Introduction. 2.2: Macro and Micronutrients. 2.3: Mineral deficiency symptoms and roles of Macro (N, P, K, Ca, Mg) elements. 2.4: Mineral deficiency symptoms and roles of Micro (B, Cu, Mn, Mo)	To get the knowledge about the mineral nutrition in plants.	The student can understand about the mineral nutrition in plants.
<b>Unit 3: Nutrient Uptake:</b> 3.1: Introduction. 3.2: Soil as a nutrient reservoir. 3.3: Types of Absorption - Passive absorption and Active absorption	To get the knowledge about the nutrient uptake in plant.	The student can understand about the nutrient uptake in plant..
<b>Unit 4: Phloem Transport:</b> 4.1: Introduction.	To get the knowledge about the phloem	The student can understand about the

<p>4.2: Site of Phloem transport.  4.3: Phloem loading and unloading and its mechanism (Munch Hypothesis).  4.4: Source–sink relationship.</p>	<p>transport.</p>	<p>phloem transport.</p>
<p><b>Unit 5: Plant growth regulators:</b>  5.1: Introduction.  5.2: Types of growth regulators.  5.3: Chemical structure.  5.4: Physiological roles and practical applications of Auxin, Gibberellins, Cytokinin, Abscisic acid, Ethylene, CCC.</p>	<p>To get the knowledge about the plant growth regulators.</p>	<p>The student can understand about the plant growth regulators.</p>

Signature of HOD