

<b>Course title:</b> Molecular Plant Physiology and Metabolism			
<b>Course code:</b> BBP 116	<b>No. of credits:</b> 2	<b>L-T-P:</b> 30-0-0	<b>Learning hours:</b> 30
<b>Pre-requisite course code and title (if any):</b> Science graduate			
<b>Department:</b> Department of Biotechnology			
<b>Course coordinator:</b> Dr. Shashi Bhushan Tripathi		<b>Course instructor:</b> Dr. Shashi Bhushan Tripathi	
<b>Contact details:</b> shashi.tripathi@terisas.ac.in			
<b>Course type:</b> Elective		<b>Course offered in:</b> Semester 2	
<b>Course description:</b> This course is designed for the students who have opted for Plant Biotechnology as the stream of specialization in the M.Sc. Biotechnology Programme. The course aims to provide a comprehensive knowledge of molecular plant physiology. The main topics include photomorphogenesis, hormones, water relations, photosynthesis and stress physiology.			
<b>Course objectives:</b> <ol style="list-style-type: none"> <li>1. To provide a foundational understanding of key plant physiological processes.</li> <li>2. To provide knowledge of molecular mechanisms of plant metabolism and development.</li> <li>3. Knowledge of plant stress physiology and tolerance mechanisms.</li> <li>4. Familiarity with secondary plant metabolites.</li> </ol>			