

Scheme Version	Plant Tissue Culture	L	T	P	C				
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VAC 01	Prerequisite: -Nil	Total hours =30							
	Objectives								
	This course will provide a broad-based introduction to plant tissue culture and their application in cultivation and hybridization of disease free plant. This course will provide the information regarding how to increase the yield as well as use of plant tissue culture.								
Subject Outcome/Course Outcome									
1	Student will learn about basics of Plant Tissue culture and historical development.								
2	Student will know about different methods of culturing and their nutritional requirements.								
3	Student will learn about requirements for tissue culture laboratory.								
4	Student will learn about various applications of Plant tissue culture.								

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1. Brief introduction to Plant tissue culture.
2. Advantages of Plant tissue culture.
3. Disadvantages of Plant tissue culture.
4. Historical development of plant tissue culture.
5. Basic requirements of Plant Tissue Culture.

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6. Depending upon the type of medium
7. Depending on the part used for culture
8. Applications of different culture medium.

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9. Callus culture mediumSuspension culture medium
10. Application of callus culture medium
11. Application of suspension culture medium

TEXTBOOKS

T-1: Tyler, V.E., Brady, L.R. and Robbers, J.E., Pharmacognosy. Lea and Febiger, Philadelphia.

T-2: Text Book of Pharmacognosy by T.E. Wallis

T-3: Mohammad Ali. Pharmacognosy and Phytochemistry, CBS Publishers and Distribution, New Delhi.

REFERENCE BOOK

R-1: W.C.Evans, Trease and Evans Pharmacognosy. W.B. Sounders and Co., London.

R-2: W.C.Evans, Trease and Evans Pharmacognosy. W.B. Sounders and Co., London.