

Teaching Programme 2015-2016

Class : F.Y.B.Sc.

Semester: I

Subject: Botany Paper Title : **PLANT ANATOMY AND EMRYOLOGY**

Paper Code: **BOT. II.C-3**

Lect No.	Day	Date	Topic	Reference
1		November		
2	1	Monday	UNIT I: Shoot Development	Esau, K. (1977). Plant Anatomy, 2 nd Edition. Wiley Eastern Private Limited. New Delhi.
3	2	Tuesday	Organization of Shoot apical meristem	Fahn, A. (1982). Plant Anatomy (3rd edition). Pergoman Press, Oxford.
4	3	Wednesday	Apical cell theory, Histogen theory, Tunica-	John Jothi Prakash, E. (1987). A Text Book of Plant Anatomy.
	4	Monday		Pandey, B.P. (1981). A textbook of Botany Angiosperms. S. Chand and Co., New Delhi.
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5	5	Tuesday	UNIT II: Root Development	Esau, K. (1977). Plant Anatomy, 2 nd Edition. Wiley Eastern Private Limited. New Delhi.
6	6	Wednesday	Organization of root apical meristem	Fahn, A. (1982). Plant Anatomy (3rd edition). Pergoman Press, Oxford.
7	7	Monday	Apical cell theory, Histogen theory, Korper-Kappe theory, Quiescent centre	John Jothi Prakash, E. (1987). A Text Book of Plant Anatomy.
8	8	Tuesday		Pandey, B.P. (1981). A textbook of Botany Angiosperms. S. Chand and Co., New Delhi.
9	9	Wednesday		1
10	10	Monday	UNIT III: Leaf Development and Phyllotaxy	
11	11	Tuesday	Initiation of leaf primordia`	
12	12	Wednesday	Differentiation of epidermis, mesophyll and vascular Tissue	
13	13	Monday	Stomata and its diversity	
14	14	Tuesday	Leaf phyllotaxy, leaf abscission	
15	15	Wednesday	UNIT IV: Wood Structure	Esau, K. (1977). Plant Anatomy, 2 nd Edition. Wiley Eastern Private Limited. New Delhi.
16	16	Monday	Vascular cambium	Fahn, A. (1982). Plant Anatomy (3rd edition). Pergoman Press, Oxford.
17	17	Tuesday	Secondary xylem, wood anatomy	John Jothi Prakash, E. (1987). A Text Book of Plant Anatomy.
18	18	Wednesday	Secondary phloem and Periderm	Pandey, B.P. (1981). A textbook of
19	19	Monday	Conifer wood	
20	20	Tuesday	Dicotyledon wood,	
21	21	Wednesday		

			Identification of wood	Botany Angiosperms. S. Chand and Co., New Delhi.
22	21	Monday		Bhojwani, S. S and Bhatnagar, S.P.
22	22	Tuesday		The Embryology of Angiosperms,
23	23	Wednesday		Vikas Publishing
24	24	Monday		House Pvt. Ltd., New Delhi.
25	25	Tuesday	UNIT V: Transition of Flowering Floral development: Induction of flowering, Floral meristems	Dwivedi. J.N. (1988). Embryology of Angiosperms. Rastogi and Co.
26	26		Origin and development of floral parts and floral development in <i>Arabidopsis</i> and <i>Antirrhinum</i>	Meerut.
27	27		ABC model of flowering	Maheswari, P. (1971). An Introduction to the Embryology of Angiosperms. Tata McGra
28	28	Wednesday	Unit-VI:	
29	29	Monday	Structure and development of male	Bhojwani, S. S and Bhatnagar, S.P.
30	30	Tuesday	gametophytemicrosporangium	The Embryology of Angiosperms,
31	31	Monday	Microsporogenesis & Pollen grains	Vikas Publishing
		Tuesday	Structure and development female gametophyte –	House Pvt. Ltd., New Delhi.
		Wednesday	Megasporangium	Dwivedi. J.N. (1988). Embryology of Angiosperms. Rastogi and Co.
			Megasporogenesis, Forms of ovule-Monosporic, bisporic and Tetrasporic	Meerut.
				Maheswari, P. (1971). An Introduction to the Embryology of Angiosperms. Tata McGra
32		Monad	UNIT VII: Pollination and fertilization	
33		Tuesday	Mechanism of pollination and fertilization- types of	Bhojwani, S. S and Bhatnagar, S.P.
34		Wednesday	pollination, germination of pollen grain, pollen pistil interaction, self-incompatibility	The Embryology of Angiosperms,
35		Monday	Double fertilization and endosperm formation	Vikas Publishing
36		Tuesday	Apomixis: Types, causes, consequences and	House Pvt. Ltd., New Delhi.
37		Wednesday	Significances of apomixis	Dwivedi. J.N. (1988). Embryology of Angiosperms. Rastogi and Co.
38		Monday	Polyembryony: Classification, causes, experimental	Meerut.
39		Tuesday	induction and importance	Maheswari, P. (1971). An Introduction to the Embryology of Angiosperms. Tata McGra
40		Wednesday		
41		Monday		
42		Tuesday		
43		Wednesday		
44		Monday		
45		Tuesday		