

**FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS), KOLLAM
DEPARTMENT OF BOTANY**

Teaching Plan 2018-2019

Subject: Complementary course Semester: **II**

Paper: 19UBO231

Title: Anatomy, Embryology and Microtechnique

Name of Teacher	Initials	Module No	Title of the Module	IH
Ms Anitha A.	AN	1	Histology	10
Ms Anitha A.	AN	2	Anatomy	10
Dr. B. Sinilal	SL	3	Embryology	10
Dr. B. Sinilal	SL	4	Microtechnique	6
Total Instructional Hours (IH)				36

Day	Date	Topic	IH	Teacher
D1	27.11.2018			
D2	28.11.2018			
D3	29.11.2018			
D4	30.11.2018	Microsporogenesis- structure and functions of wall layers	1	SL
D5	03.12.2018	Objectives and scopes of plant anatomy	1	AN
D6	04.12.2018			
D7	05.12.2018			
D8	06.12.2018			
D9	10.12.2018	Tissues- Meristems, definition and classification based on origin , position, growth patterns and functions	1	AN
D10	11.12.2018			
D11	12.12.2018			
D12	14.12.2018	Development of male gametophyte	1	SL
D13	17.12.2018	Apical meristems and theories of apical organization- Apical cell theory, histogen theory, Tunica- Corpus theory	1	AN
D14	18.12.2018			

D15	07.01.2018	Organization of root apex in dicots and monocots	1	AN
D16	08.01.2019			
D17	09.01.2019			
D18	10.01.2019			
D19	11.01.2019	Dehiscence of anther	1	SL
D20	14.01.2019	Permanent tissues- Definition, classification- simple tissues	1	AN
D21	15.01.2019			
D22	16.01.2019			
D23	17.01.2019			
D24	18.01.2019	Megasporogenesis- development of female gametophyte	1	SL
D25	21.01.2019	Complex tissues	1	AN
D26	22.01.2019			
D27	23.01.2019			
D28	24.01.2019			
D29	25.01.2019	Embryo sac development and types- Monosporic- Polygonum type	1	SL
D30	28.01.2019	Secretory tissues	1	AN
D31	29.01.2019			
D32	30.01.2019			
D33	31.01.2019	CAT I		
D34	01.02.2019	CAT I		
D35	04.02.2019	CAT I		
D36	05.02.2019	CAT I		
D37	06.02.2019	CAT I		
D38	07.02.2019	CAT I		
D39	08.02.2019	Pollination	1	SL

D40	11.02.2019	Tissue systems- Epidermal tissue systems, Ground tissue systems	1	AN
D41	12.02.2019			
D42	13.02.2019			
D43	14.02.2019			
D44	15.02.2019	Fertilization	1	SL
D45	18.02.2019	Vascular tissue systems & different types of vascular arrangements, Primary structure of root- dicot and monocot	2	AN
D46	19.02.2019			
D47	20.02.2019			
D48	21.02.2019			
D49	22.02.2019	Double fertilization	1	SL
D50	25.02.2019	Primary structure of dicot and monocot stem, leaf	2	AN
D51	26.02.2019			
D52	27.02.2019			
D53	28.02.2019			
D54	01.03.2019	Structure of Embryo- Dicot (<i>Capsella</i>)	1	SL
D55	05.03.2019			
D56	06.03.2019			
D57	07.03.2019			
D58	08.03.2019	Killing and fixing agents- Carnoy's fluid, F.A.A	1	SL
D59	11.03.2019	Secondary growth of stem(stellar & extra stellar)	2	AN
D60	12.03.2019			
D61	13.03.2019			
D62	14.03.2019			
D63	15.03.2019	CAT II		

D64	18.03.2019	CAT II		
D65	19.03.2019	CAT II		
D66	20.03.2019	CAT II		
D67	21.03.2019	CAT II		
D68	22.03.2019	CAT II		
D69	25.03.2019	Secondary growth of root- cambium-structure and function, annular rings, heart wood and sap wood, tyloses, ring porous wood and diffuse porous wood,	2	AN
D70	26.03.2019			
D71	27.03.2019			
D72	28.03.2019			
D73	29.03.2019	Stains and staining techniques , Double staining	1	SL
D74	01.04.2019	Periderm formation- phellum, phellogen, phelloderm; lenticels	2	AN
D75	02.04.2019			
D76	03.04.2019			
D77	04.04.2019			
D78	05.04.2019	General account; Stains: saffranin, hematoxylin, acetocarmine	1	SL
D79	08.04.2019	Anomalous secondary growth- <i>Boerhaavia</i>	1	AN
D80	09.04.2019			
D81	10.04.2019			
D82	11.04.2019			
D83	12.04.2019	Revision	1	SL
D84	16.04.2019	Revision	1	AN
D85	17.04.2019	ESE		
D86	22.04.2019	ESE		
D87	23.04.2019	ESE		

D88	24.04.2019	ESE		
D89	25.04.2019	ESE		
D90	26.04.2019	ESE		
Total Instructional Hours			36	

Dr. Sinilal B.

Name & Signature of the Course Co-ordinator

HoD

IQAC