



The Islamia University of Bahawalpur

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Tentative Course Plan

DEPARTMENT OF BOTANY

Class: BS Botany

Semester-5th (Botany)

Session: 2017-21

Instructor	Ghulam Sarwar	Email:	lifesci.flora786@gmail.com
Course Title	Plant Anatomy	Program	BS Botany
Course Number	BOTA- 01506	Credit Hours	3(2+1)

Session	Topic	Topic name	VIDEO LINKS
2 & 3	1	Fundamental parts of plant body	https://www.youtube.com/watch?v=Rm656_4VrkE
	2	Internal organization	https://www.youtube.com/watch?v=6wgmSB2p9U0
4&5	3	Different tissue system of primary and secondary body	https://www.youtube.com/watch?v=l2C3Q2dIVgw&list=TLPQMDIwNDIwMjD3aHpPAIQcPw&index=3 https://www.youtube.com/watch?v=0du7_e3fP2E
6	4	Classification of meristematic tissues	https://www.youtube.com/watch?v=IMvaVCWi6Cw
7&8	1	Cytological characteristics of meristematic tissue	https://youtu.be/8cmpCKfEDIM
9	2	delimitation of apical meristem	https://youtu.be/L9SHcyV_uKs
10	3	Different growth zones of apical meristem	https://youtu.be/9z0RbyFdv7E
	4	Evolution of apical organization	https://youtu.be/mFp6VRRospQ
11	5	Root apices & shoot apices	https://youtu.be/2JcEjsGy3Kg
12	1	Root and shoot apices	1. https://youtu.be/g7Nwrnb7W4w 2. https://youtu.be/6_UGeufQ4Ns 3. https://youtu.be/0HCNTvOsbTU 4. https://youtu.be/9-MxvkEjM9c
13&14	2	Types, origin and internal organization of leaf	1. https://youtu.be/HYOaJBMS28 2. https://youtu.be/22aMjRpxDQg 3. https://youtu.be/DwuoIN0P05w 4. https://youtu.be/XU-8Ay4IsIk
15&16	3	Development of different tissues with special reference to mesophyll,	1. https://youtu.be/2tP4nP_erWs 2. https://youtu.be/Q0ICSvXdbMs 3. https://youtu.be/71LFB1h--Fw 4. https://youtu.be/8H0q7H1zVEw 5. https://youtu.be/a83IsnvUnEY 6. https://youtu.be/XRVul9MB2R8 7. https://youtu.be/Lhd7WbWV8aw 8. https://youtu.be/yfFY7dADPgM
	4	Venation,	
	5	bundle sheath and bundle sheath extensions,	
	6	enlargement of epidermal cells	
17 & 18	1	Origin and structure of vascular cambium	1. https://youtu.be/hRhyViOd5Qg 2. https://youtu.be/Zx1ffvfNV0Q 3. https://youtu.be/BrkfpQAxJE 4. https://youtu.be/BkUXGeyPu9M
	2	Types of divisions in vascular cambium: additive and multiplicative	
19 & 20	3	Cytoplasmic characteristics, seasonal activity and its role in secondary growth of root and shoot.	1. https://youtu.be/2IWhFGsP1Zs 2. https://youtu.be/BrkfpQAxJE 3. https://youtu.be/hRhyViOd5Qg 4. https://youtu.be/-c7YJJaeINQ
	4		
21	5	Abnormal secondary growth in plants	1. https://youtu.be/EfrdBub2IdY

22 & 23	1 2	Origin, structure, development, Functional and evolutionary specialization of Epidermis and epidermal emergences.	https://www.youtube.com/watch?v=Q0ICSVXdbMs&feature=youtu.be https://www.youtube.com/watch?v=3UANQsvoo-g&feature=youtu.be
24& 25	3 4	Parenchyma, Collenchyma, Sclerenchyma	https://www.youtube.com/watch?v=jH96p-7YPzA&feature=youtu.be
26	5	Xylem with special emphasis on different types of wood periderm	https://www.youtube.com/watch?v=L2XqsXNmIGA&feature=youtu.be
27	1	Phloem with special emphasis on different types of woods	https://youtu.be/5SH6FPsBnQ
28& 29	2	Laticifers (Classification, distribution, development, structural characteristics, functions) and Resin Canals	https://youtu.be/T6UsVVLdhOI https://youtu.be/rlGTCa4g944
30	3	Anatomy of reproductive parts: - Flower – Seed - fruit	1- https://youtu.be/oZyMVoOIYJY 2- https://youtu.be/sWRWZkcIs4U 3- https://youtu.be/lIz1iw6oi-o
31	4	Economic Aspects of applied plant anatomy	https://www.slideshare.net/ArSlanJanjua6/economic-aspects-of-anatomy
32	5	Anatomical Adaptations	https://youtu.be/aU-dFWTTxHc

Instructions for students from competent Authority :

Student's Responsibilities

- Student shall be responsible for accessing the material distributed through the Course Material Bundle for each of his / her courses and saving the material for offline use.
- Student shall be responsible to join online classroom sessions made available through official University servers.
- Student shall be responsible to participate actively in all activities assigned through the Learning Management System and to explore all links to further information disseminated through the Learning Management System.
- Student shall be responsible to prepare for exams and tests, both online and paper based, according to the content distributed through Course Material Bundle and LMS.

23/03/2021
Deputy Registrar (Acad)
The Islamia University
Bahawalpur