

Maulana Azad College of Arts Science and Commerce,  
Department of Botany  
**Semester Wise Teaching Plan 2015-2016**

**Class: B.Sc. I Year**  
**Subject: BOTANY**  
**Periods per week:**  
**Weeks (Total): 15.**

**Semester: I**  
**Paper No: I (Diversity of Cryptogams-I)**  
**Th.\_\_\_\_\_ Practical.\_\_\_\_\_**

WEEKS	TOPICS TO BE COVERED
1	Viruses; General Characters, Classification, Economic importance, TMV.
2	TMV multiplication, Mycoplasma, Bacteria: General characters.
3	Bacteria Ultra structure, Classification based on shape, Reproduction in Bacteria.
4	Economic Importance of Bacteria, Cryptogams, Lichen: General Characters.
5	Nature of Lichen association Forms of Thalli, Economic importance, Structure and reproduction of <b>Usnea</b> .
6	Algae: General Characters, Classification, Economic Importance. Genus: <b>Nostoc</b> .
7	<b>Nostoc, Chara.</b>
8	<b>Chara, Botrydium.</b>
9	<b>Sargassum.</b>
10	<b>Batrachospermum.</b>
11	Fungi: General Characters, Classification, Economic Importance.
12	Genus: <b>Albugo</b> .
13	<b>Mucor, Eurotium.</b>
14	<b>Eurotium, Agaricus.</b>
15	<b>Agaricus and Cercospora.</b>

*Dr. Ashfaque Khan*

*H.O.D.'s Signature*

Class : B.Sc. I  
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 Weeks (Total) : 15

Semester I  
 Paper No: II  
 Pr. \_\_\_\_\_

Week	Topic to be covered
1	Structure of plant body, habit, habitat. <b>Practicals:-</b> Study of Microscope. Study of plant body.
2	Study of Root. <b>Practicals:-</b> Study of Virus. Study of Root.
3	Study of Stem. <b>Practicals:-</b> Study of Bacteria. Study of Stem.
4	Study of modifications of stem. <b>Practicals:-</b> Study of Nostoc. Study of underground modifications of stem
5	Study of Cymose type of inflorescence. <b>Practicals:-</b> Study of Botrydium. Study of Leaf types and venation
6	-Study of Racemose type of inflorescence.. <b>Practicals:-</b> Study of Chara. Study of aerial modifications of stem.
7	Study of Special type of inflorescence. <b>Practicals:-</b> Study of Sargassum. Study of modifications of leaf.
8	Study of structure of flower. <b>Practicals:-</b> Study of Batrachospermum. Study of different types of inflorescence.
9	Study of thalamus and calyx. <b>Practicals:-</b> Study of Albugo. Study of flower and thalamus.
10	Study of corolla, aestivation. <b>Practicals:-</b> Study of Mucor. Study of aestivation and forms of corolla.
11	Study of forms of corolla, stamen. <b>Practicals:-</b> Study of Eurotium. Study of Cohesion and adhesion.
12	Study of gynoecium. <b>Practicals:-</b> Study of Agaricus. Study of gynoecium.
13	Study of fruit structure. <b>Practicals:-</b> Study of Lichens. Study of fruits.
14	Study of fruit types. <b>Practicals:-</b> Excursion to Botanical garden, observation and collection of Morphological specimen.
15	Revision of syllabus and question paper pattern. <b>Practicals:-</b> Preservation, identification of collected specimen.

**Dr. Rafiuddin Naser.**