**PG. GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Session Odd Semester (2017-18)**

**Class:** B.Sc III (section- A)  **Name of teacher**: Dr. DavinderKaur, Dr. Manvi

**Paper**: A **Subject**: Plant Physiology

**Room no**.: 218 **Periods:** III (4,5,6 day)

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| **S.no** | **Date from** | **Date upto** | **Topics to be covered** |
| Week 1 | 24 July, 2017 | 29 July, 2017 | Unit 1- Importance of water to plant life, physical properties of water, imbibition, diffusion, |
| Week 2 | 31 July, 2017 | 6 Aug ,2017 | Osmosis, Plasmolysis, Deplasmolysis, concept of osmotic potential |
| Week 3 | 7 Aug ,2017 | 12 Aug ,2017 | Water potential and pressure potential, absorption of water, active and passive mechanism of water absorption |
| Week 4 | 14 Aug ,2017 | 19 Aug ,2017 | Transport of water, mechanism and theories to explain ascent of sap, |
| Week 5 | 21 Aug ,2017 | 26 Aug ,2017 | Transpiration types, mechanism of opening and closing of stomata, |
| Week 6 | 28 Aug ,2017 | 2 Sep, 2017 | Mechanism of transpiration, factors affecting transpiration, antitranspirants. |
| Week 7 | 4 Sep, 2017 | 9 Sep, 2017 | Unit II –Mineral Nutrition, hydroponics and its importance; essential macro and micro elements; essentiality criteria |
| Week 8 | 11 Sep, 2017 | 16 Sep, 2017 | Deficiency symptoms and their roles |
| Week 9 | 18 Sep, 2017 | 23 Sep, 2017 | Mineral uptake and Mechanism of mineral uptake |
| Week10 | 25 Sep, 2017 | 29 Sep, 2017 | Revision |
| Autumn break (30 Sep 2017-09 Oct 2017)  Mid semester exams (10 Oct 2017- 17Oct 2017) | | | |
| Week 11 | 18 Oct,2017 | 21 Oct, 2017 | Unit III- Nitrogen metabolism, biological nitrogen fixation, |
| Week 12 | 23 Oct, 2017 | 28 Oct, 2017 | Importance of nitrate reductase and its regulation, ammonia assimilation, |
| Week 13 | 30 Oct, 2017 | 4 Nov,2017 | Lipid metabolism; structure and function of lipids, β oxidation, saturated and unsaturated fatty acids. |
| Week 14 | 6 Nov,2017 | 11 Nov,2017 | Unit IV- Proteins, Classification, role and structure of proteins. |
| Week 15 | 13 Nov,2017 | 18 Nov,2017 | Basics of Enzymology, Discovery and nomenclature; classification, structure, properties, |
| Week 16 | 20 Nov,2017 | 25 Nov,2017 | Factors affecting its activity, mechanism of enzyme action. |
| Week 17 | 27 Nov,2017 | 1 Dec,2017 | Revision and test |

**PG. GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Session Odd Semester (2017-18)**

**Class:**M. Sc. I **Name of teacher**:Dr. DavinderKaur

**Paper**: III **Subject**:Mycology

**Room no**.: 211 **Period**: I (1,2 day)

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| **S.no** | **Date from** | **Date upto** | **Topics to be covered** |
| Week 1 | 24 July, 2017 | 29 July, 2017 | 1. General account of Myxomycota |
| Week 2 | 31 July, 2017 | 6Aug ,2017 | General account of Myxomycota |
| Week 3 | 7Aug ,2017 | 12Aug ,2017 | Oomycota |
| Week 4 | 14Aug ,2017 | 19Aug ,2017 | Oomycota |
| Week 5 | 21Aug ,2017 | 26Aug ,2017 | Chytidriomycota |
| Week 6 | 28Aug ,2017 | 2 Sep, 2017 | 3. General account of Zygomycota |
| Week 7 | 4 Sep, 2017 | 9 Sep, 2017 | General account of Zygomycota |
| Week 8 | 11 Sep, 2017 | 16 Sep, 2017 | Ascomycota |
| Week 9 | 18 Sep, 2017 | 23 Sep, 2017 | Ascomycota |
| Week10 | 25 Sep, 2017 | 29 Sep, 2017 | Revision |
| Autumn break (30 Sep 2017-09 Oct 2017)  Mid semester exams (10 Oct 2017- 17Oct 2017) | | | |
| Week 11 | 18 Oct,2017 | 21Oct, 2017 | Basidiomycota |
| Week 12 | 23Oct, 2017 | 28Oct, 2017 | Anamorphic Fungi |
| Week 13 | 30Oct, 2017 | 4 Nov,2017 | 4. Tissue system in Fungi |
| Week 14 | 6 Nov,2017 | 11 Nov,2017 | 5. Types of Centrum development in Ascomycota |
| Week 15 | 13Nov,2017 | 18 Nov,2017 | 6. Heterokaryosis and Parasexuality |
| Week 16 | 20 Nov,2017 | 25 Nov,2017 | 7. Mycorrhizal application in agriculture and plant growth |
| Week 17 | 27 Nov,2017 | 1 Dec,2017 | Revision and test |

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**Teaching Plan Session Odd Semester (2017-18)**

**Class:** M. Sc. I  **Name of teacher**: Dr. DavinderKaur

**Paper**: I **Subject**: Phycology

**Room no**.: 211 **Period**: III (1,2,3 day) and IV (6 day)

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| **S.no** | **Date from** | **Date upto** | **Topics to be covered** |
| Week 1 | 24 July, 2017 | 29 July, 2017 | 1. Criteria for algal classification |
| Week 2 | 31 July, 2017 | 6 Aug ,2017 | Comparative account of important systems of classification (Fristch and Round) |
| Week 3 | 7 Aug ,2017 | 12 Aug ,2017 | Chapman and Lee system of classification |
| Week 4 | 14 Aug ,2017 | 19 Aug ,2017 | 4. Diversity in algal habitat |
| Week 5 | 21 Aug ,2017 | 26 Aug ,2017 | 5. Thallus organization in algae |
| Week 6 | 28 Aug ,2017 | 2 Sep, 2017 | 6. Reproduction (vegetative, sexual and asexual) |
| Week 7 | 4 Sep, 2017 | 9 Sep, 2017 | 2. Silent features: cell structure, thallus organization, reproduction of Cyanophyta |
| Week 8 | 11 Sep, 2017 | 16 Sep, 2017 | Xanthophyta |
| Week 9 | 18 Sep, 2017 | 23 Sep, 2017 | 3. Chlorophyta |
| Week10 | 25 Sep, 2017 | 29 Sep, 2017 | Revision |
| Autumn break (30 Sep 2017-09 Oct 2017)  Mid semester exams (10 Oct 2017- 17Oct 2017) | | | |
| Week 11 | 18 Oct,2017 | 21 Oct, 2017 | Bacillariophyta and Dinophyta |
| Week 12 | 23 Oct, 2017 | 28 Oct, 2017 | Phaeophyta and Cryptophyta |
| Week 13 | 30 Oct, 2017 | 4 Nov,2017 | Rhodophyta |
| Week 14 | 6 Nov,2017 | 11 Nov,2017 | 7. Current concept and relationships of protochlorophycean algae |
| Week 15 | 13 Nov,2017 | 18 Nov,2017 | 8. Rhythms and bioluminescence in dinoflagellates |
| Week 16 | 20 Nov,2017 | 25 Nov,2017 | 9. Economic importance of algae and  10. algae in Biotechnology |
| Week 17 | 27 Nov,2017 | 1 Dec,2017 | Revision and test |