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

**Teaching Plan Session Odd Semester**

**(2017-18)**

**Class: M.Sc. 1st yr Name of the Teacher: Dr. Radha Chauhan**

**Subject: Botany Period: I (3,4) & II (1,2)**

**Paper: II (Bryophytes) Room No: 211**

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| **S. No** | **Date From** | **Date Upto** | | **Topics to be covered** |
| Week 1 | July 22 & July 24 2017 | July 29, 2017 | | - |
| Week 2 | July 31 2017 | Aug 5, 2017 | | - |
| Week 3 | Aug 7, 2017 | Aug 12, 2017 | | General character of bryophytes, Comparative account of Bryophytes classification |
| Week 4 | Aug 14, 2017 | Aug 19, 2017 | | Comparative account of Bryophytes classification |
| Week 5 | Aug 21, 2017 | Aug 26, 2017 | | Anthocerotales detailed account |
| Week 6 | Aug 28, 2017 | Sept 2, 2017 | | Marchantiales and Jungermanniales detailed account |
| Week 7 | Sept 4, 2017 | Sept 9, 2017 | | Detailed account on Jungermanniales and Calobryales |
| Week 8 | Sept 11, 2017 | Sept 16, 2017 | | Detailed account on Sphagnales and Takakiales |
| Week 9 | Sept 18, 2017 | Sept 23, 2017 | | Water relation of Bryophytes detailed:ectohydric, endohydric |
| Week 10 | Sept 25, 2017 | Sept 29, 2017 | | Water relation of Bryophytes detailed: mixohydric, dessication & rehydration |
| **Autumn Break (30 Sept 2017- 09 Oct 2017)**  **Mid Semester Exam (10 Oct 2017 – 17 Oct 2017)** | | | | |
| Week 11 | Oct 18, 2017 | | Oct 21, 2017 | Detailed account on Polytrichales; Economic Importance |
| Week 12 | Oct 23, 2017 | | Oct 28, 2017 | Structure & development of sex organs in bryophytes; Ecology of bryophytes |
| Week 13 | Oct 30, 2017 | | Nov 4, 2017 | Detailed account on Metzeriales; Monocleales; Sphaerocarpales |
| Week 14 | Nov 6, 2017 | | Nov 11, 2017 | Detailed account on Andreaeopsida; Peristomiopsida |
| Week 15 | Nov 13, 2017 | | Nov 18, 2017 | Experimental studies on protonema & bud formation; Apogamy & apospory |
| Week 16 | Nov 20, 2017 | | Nov 25, 2017 | Chemistry of Bryophytes |
| Week 17 | Nov 27, 2017 | | Dec 1, 2017 | Cytology of Bryophytes |

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

**Teaching Plan Session Odd Semester**

**(2017-18)**

**Class: M.Sc. IInd yr Name of the Teacher: Dr. Radha Chauhan**

**Subject: Botany Period: IV (1,4) & VI (6)**

**Paper: XII (Plant Physiology) Room No: 211**

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| **S. No** | **Date From** | **Date Upto** | | **Topics to be covered** |
| Week 1 | July 22 & July 24 2017 | July 29, 2017 | | - |
| Week 2 | July 31 2017 | Aug 5, 2017 | | - |
| Week 3 | Aug 7, 2017 | Aug 12, 2017 | | Photosynthesis –I (Light reactions) |
| Week 4 | Aug 14, 2017 | Aug 19, 2017 | | Photosynthesis –II (Dark reactions) |
| Week 5 | Aug 21, 2017 | Aug 26, 2017 | | Photosynthesis –II (Dark reactions) |
| Week 6 | Aug 28, 2017 | Sept 2, 2017 | | Cell organelles and Cell membrane detailed structure and function |
| Week 7 | Sept 4, 2017 | Sept 9, 2017 | | Translocation; phloem loading and unloading including details; Respiration |
| Week 8 | Sept 11, 2017 | Sept 16, 2017 | | Respiration |
| Week 9 | Sept 18, 2017 | Sept 23, 2017 | | Water relations of plant; transpiration |
| Week 10 | Sept 25, 2017 | Sept 29, 2017 | | Water relations of plant: soil-plant-atmosphere continuum |
| **Autumn Break (30 Sept 2017- 09 Oct 2017)**  **Mid Semester Exam (10 Oct 2017 – 17 Oct 2017)** | | | | |
| Week 11 | Oct 18, 2017 | | Oct 21, 2017 | Stress physiology: water, temperature, stresses |
| Week 12 | Oct 23, 2017 | | Oct 28, 2017 | Stress physiology: salt and biotic stresses |
| Week 13 | Oct 30, 2017 | | Nov 4, 2017 | Growth process detailed; Photoperiodism; Phytochrome |
| Week 14 | Nov 6, 2017 | | Nov 11, 2017 | Phytohormones: Auxins, gibberellins |
| Week 15 | Nov 13, 2017 | | Nov 18, 2017 | Phytohormones: Cytokinins, abscissins and ethylene |
| Week 16 | Nov 20, 2017 | | Nov 25, 2017 | Phenols; synthetic retardants and inhibitors; Seed dormancy & germination |
| Week 17 | Nov 27, 2017 | | Dec 1, 2017 | Bud dormancy & germination, application of Plant Physiology |