**Post Graduate Govt. College for Girls, Sector- 42, Chandigarh**

**Teaching Plan Session Even semester (2017-18)**

**Class:** M.Sc. I(Sem. 2nd)  **Name:** Dr.RadhaChauhan

**Subject:** Botany **Period:** 2nd(1-3);3rd (1-3);2nd (4-6)

**Paper:** VII, VIII, IX **Room No:** 211

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| **S. No.** | **Date From** | **Date Upto** | **Topics to be covered** |
| Week 1 | 8 Jan, 2018 | 13 Jan, 2018 | P-VII: Detailed study of Aneurophytales, Archaeopteridales  P-VIII: System of classification-Benthem& Hooker, Euphorbiaceae  P-IX:Structure of anthers, Microsporogenesis, Role of tapetum |
| Week 2 | 15 Jan, 2018 | 20 Jan, 2018 | P-VII:Protopityales, Lyginopteridaceae, Glossopteridaceae  P-VIII:Botanical nomenclature and ICBN, BSI, Nyctaginaceae, Apocynacaeae  P-IX:Pollen development, Pollen wall structure, Male sterility |
| Week 3 | 22 Jan, 2018 | 27 Jan, 2018 | P-VII: Medullosaceae, Caytoniaceae, Bennettitaceae  P-VIII: Diagnostic keys, Principles of systematics, Asteraceae  P-IX: Apomixis: Types and evolutionary significance |
| Week 4 | 29 Jan, 2018 | 3 Feb, 2018 | P-VII: Cycadales  P-VIII: Biosystematics, Caryophyllaceae, Species concept, Cruciferae  P-IX: Hybrid seed production, Pollen viability and storage |
| Week 5 | 5 Feb, 2018 | 10 Feb, 2018 | P-VII: Williamsoniaceae, Wiellandiell-aceae  P-VIII: Botanical Gardens, Taxonomic literature, Fumariaceae  P-IX: Ovule development, Megasporogenesis |
| Week 6 | 12 Feb, 2018 | 17 Feb, 2018 | P-VII: Coniferales: Pinaceae  P-VIII: Phylogenetic system-detailed, Ranunculaceae  P-IX: Organization of Embryo sac, structure of embryo sac cells |
| Week 7 | 19 Feb, 2018 | 24 Feb, 2018 | P-VII: Taxodiaceae  P-VIII: Phylogeny of Angiosperms, Malvaceae  P-IX: Floral characteristics, breeding systems |
| Week 8 | 26 Feb, 2018 | 3 March, 2018 | P-VII: Podocarpaceae, Cephalotaxaceae  P-VIII: Phytogeography, Papaveraceae, Lythraceae  P-IX: Pollination mechanisms and vectors |
| Week 9 | 12 March, 2018 | 17 March, 2018 | P-VII: Detailed study of Ginkgoales, Taxales  P-VIII: Evolution of Stamen & Carpel, Combretaceae, Liliaceae, Graminae  P-IX: Structure of the pistil, Pollen-stigma interactions |
| Week 10 | 19 March, 2018 | 24 March, 2018 | P-VII: Detailed study of Gnetales  P-VIII: Scrophulariaceae, Cactaceae, Rosaceae  P-IX: Sporophytic self – incompatibility |
| Week 11 | 26 March, 2018 | 31 March, 2018 | P-VII: Coniferales:Araucariaceae, Sciadopityaceae  P-VIII: Myrtaceae, Solanaceae, Asclepediaceae  P-IX: Gametophytic self – incompatibility |
| Week 12 | 2 April, 2018 | 7 April, 2018 | P-VII: Detailed study of Cordaitales  P-VIII: Primulaceae, Rutaceae, Meliaceae, Anacardiaceae  P-IX: Double fertilization, *in vitro* fertilization |
| Week 13 | 9 April, 2018 | 14 April, 2018 | P-VII: Detailed study of Pentoxylales  P-VIII: Umbelliferae, Boraginaceae, Leguminosae, Oleaceae  P-IX: Endosperm: Development and types |
| Week 14 | 16 April, 2018 | 21 April, 2018 | P-VII: Classification of Gymnosperms  P-VIII: Polygonaceae, Amaranthaceae, Cannabinaceae  P-IX: Development of embryo in Monocots |
| Week 15 | 23 April, 2018 | 28 April, 2018 | P-VII: Male gametophytes, Archegonium in Gymnosperms  P-VIII: Cannaceae, Orchidaceae, Amaryllidaceae, Palmae  P-IX: Development of embryo in Dicots |
| Week 16 | 30 April, 2018 | 5 May, 2018 | P-VII: Cytology and Economic importance of Gymnosperms  P-VIII: Araceae, Cyperaceae, Rhamnaceae, Cucurbitaceae  P-IX: Seed: Structure and formation |