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

**Teaching Plan Session Even Semester**

**(2017-18)**

**Name of the Teacher: DrDavinderkaur**

Class: Subject: Paper: Room No: Periods:

B.Sc. III (section- A) Plant Physiology A 218 III (4,5,6 day)

M.Sc. I Plant Pathology X 211 I (1,3,5,6 day)

M.Sc. II Plant resources, utilization and XIX 213 III (2 day)

conservation plant resources

M.Sc. II Research project XX 211 IV (5,6 day)

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| **S. No** | **Date From** | **Date Upto** | **Classes** | **Topics to be covered** |
| Week 1 | Jan 08, 2018 | Jan 13, 2018 | B.Sc. III (sec- A) | Introduction |
| M.Sc. I (X) | Symptomatology in fungal infection |
| M.Sc. II (XIX) | Vegetable oils and fats |
| M.Sc. II (XX) | Discussion |
| Week 2 | Jan 15, 2018 | Jan 20, 2018 | B.Sc. III (sec- A) | Photosynthesis: Photosynthetic pigments, action spectrum, concept of two photosystems, cyclic and non cyclicphotophorylation |
| M.Sc. I (X) | Role of enzymes in pathogenesis |
| M.Sc. II (XIX) | Fatty and essential oils |
| M.Sc. II (XX) | Discussion |
| Week 3 | Jan 22, 2018 | Jan 27, 2018 | B.Sc. III (sec- A) | Calvin cycle, C4 pathway, CAM plants, photorespiration, factors affecting photosynthesis |
| M.Sc. I (X) | Role of toxin in pathogenesis |
| M.Sc. II (XIX) | Drying oils |
| M.Sc. II (XX) | Demonstration |
| Week 4 | Jan 29, 2018 | Feb 3, 2018 | B.Sc. III (sec- A) | Transport of organic substances, mechanism of phloem transport, source-sink relationship, factors affecting translocation. |
| M.Sc. I (X) | Defense mechanism |
| M.Sc. II (XIX) | Non-drying oils |
| M.Sc. II (XX) | Demonstration |
| Week 5 | Feb 5, 2018 | Feb 10, 2018 | B.Sc. III (sec- A) | Respiration: ATP, aerobic and anaerobic respiration, kerb cycle. |
| M.Sc. I (X) | Host parasite interactions |
| M.Sc. II (XIX) | Semi drying oils and their uses |
| M.Sc. II (XX) | Experimental design |
| Week 6 | Feb 12, 2018 | Feb 17, 2018 | B.Sc. III (sec- A) | Electron transport mechanism, redox potential, oxidative phosphorylation. |
| M.Sc. I (X) | Disease forecasting and assessment |
| M.Sc. II (XIX) | Fibres: classification, uses, types of fibres |
| M.Sc. II (XX) | Experimental design |
| Week 7 | Feb 19, 2018 | Feb 24, 2018 | B.Sc. III (sec- A) | Pentose phosphate pathway and respiration quotient. |
| M.Sc. I (X) | Disease control |
| M.Sc. II (XIX) | Soft fibres, hard fibres, surface fibres |
| M.Sc. II (XX) | Experimental design |
| Week 8 | Feb 26, 2018 | Mar 03 , 2018 | B.Sc. III (sec- A) | Revision and test |
| M.Sc. I (X) | Nutrition in fungi |
| M.Sc. II (XIX) | Brush fibres and braiding fibres. |
| M.Sc. II (XX) | Experimental work |
| **2nd week March (Mid Semester Exam)** | | | | |
| Week 9 | March 12, 2018 | March 17, 2018 | B.Sc. III (sec- A) | Growth and development: definitions; phases of growth and development; kinetics of growth |
| M.Sc. I (X) | Etiology epidemiology and control of following diseases; paddy blast, brown leaf spot, bacterial blight, rusts, bunt and smuts of wheat |
| M.Sc. II (XIX) | Gums |
| M.Sc. II (XX) | Experimental work |
| Week 10 | March 19 , 2018 | March 24, 2018 | B.Sc. III (sec- A) | Factors affecting growth; plant movements, the concept of photoperiodism, physiology of flowering |
| M.Sc. I (X) | Tundu disease, red rot and smut of sugarcane, downy and powdery mildews of grapes |
| M.Sc. II (XIX) | Important commercial gums |
| M.Sc. II (XX) | Experimental work |
| Week 11 | March 26, 2018 | March 31, 2018 | B.Sc. III (sec- A) | Florigen concept; roles of plant hormones auxins, gibberellins, cytokinins |
| M.Sc. I (X) | Leaf curl of peach, tikka disease of groundnut, apple scab |
| M.Sc. II (XIX) | Uses of gums |
| M.Sc. II (XX) | Experimental work |
| Week 12 | April 02, 2018 | April 07, 2018 | B.Sc. III (sec- A) | Abscisic acid and ethylene, history of their discovery. |
| M.Sc. I (X) | White rust, downy mildew of mustard, early and late blight of potato, wart disease |
| M.Sc. II (XIX) | Tanins and dyes: Introduction |
| M.Sc. II (XX) | Experimental work |
| Week 13 | April 09, 2018 | April 14 , 2018 | B.Sc. III (sec- A) | Biotechnology: functional definition; basic concepts of plant tissue culture |
| M.Sc. I (X) | Rust of linseed, damping of seedlings, ergot of rye |
| M.Sc. II (XIX) | Sources of tanins and dyes |
| M.Sc. II (XX) | Discussion |
| Week 14 | April 16, 2018 | April 21, 2018 | B.Sc. III (sec- A) | Application of plant tissue culture and somatic hybridization |
| M.Sc. I (X) | Diseases caused by plant viruses, MLOs, spiroplasma, viroids and mycoviruses |
| M.Sc. II (XIX) | Uses of tanins |
| M.Sc. II (XX) | Discussion |
| Week 15 | April 23, 2018 | April 28, 2018 | B.Sc. III (sec- A) | Revision |
| M.Sc. I (X) | General symptoms and principles of control |
| M.Sc. II (XIX) | Uses of dyes |
| M.Sc. II (XX) | Discussion |
| Week 16 | April 30, 2018 | May 05, 2018 | B.Sc. III (sec- A) | Revision and Test |
| M.Sc. I (X) |
| M.Sc. II (XIX) |
| M.Sc. II (XX) | Discussion |