

**Syllabus Completion Report
&
Attendance Report**

A.Y. 2018-19

**Dr. S.M. Jagtap,
Department of Botany**

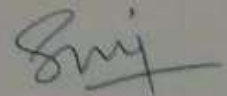
Syllabus Completion Report

F. Y. B. Sc. Botany: 2015 - 13

Plant Diversity

(Term - I; Paper I)

Sr. No.	Month	Topics Covered
1	July	Introduction: General outline of plant kingdom, Introduction to plant diversity with reference to following groups:- Cryptogams: Thallophyta (Algae, Fungi, Lichens, And Bacteria), Bryophyta and Pteridophyta, Phanerogams: Gymnosperms and Angiosperms.
2	July & Aug	Algae: General characters, Outline classification according to G.M. Smith (1955) up to classes with reasons. Life cycle of <i>Spirogyra</i> . Fungi: General characters, Outline classification according to G.M. Smith (1955) up to classes with reasons. Life cycle of <i>Cystopus (Albugo)</i> .
3	Aug	Lichens: General characters, Nature of Association, Types of Lichens on the basis of thallus morphology, Economic importance of lichens. Bryophytes: General characters, Outline classification according to G.M. Smith (1955) up to classes with reasons. Life cycle of <i>Riccia</i> .
4	Sep	Pteridophytes: General characters, Outline classification according to G.M. Smith (1955) up to classes with reasons. Life cycle of <i>Nephrolepis</i> . Gymnosperms: General characters, Outline classification according to Chamberlain (1934) up to classes with reasons. Life cycle of <i>Cycas</i> .
5	Oct	Angiosperms: General characters, Causes of evolutionary success of Angiosperms, comparative account of monocotyledons and dicotyledons Revision & Question paper discussion Internal Theory Examination



Dr. Jagtap S.M.

Head
Department of Botany
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Syllabus Completion Report

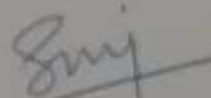
F. Y. B. Sc. Botany: 2012-13

Industrial Botany

(Term - I; Paper II)

Sl. No.	Month	Topics Covered
1	July	<p>Introduction to Industrial Botany <i>Concept of Industrial Botany. Plant resources and industries: Food, fodder, fibers, medicines, timber, dyes, gum, tannins. (Two examples of each resource and the relevant industries with which they are associated).</i></p> <p>Floriculture Industry <i>Introduction to floriculture. Important floricultural crops, open cultivation practices, harvesting and marketing of Tuberoses. Greenhouse technology: Concept, advantages and limitations. Cultivation practices (greenhouse technology), harvesting and marketing of Rose and Gerbers.</i></p>
2	Aug	<p>Plant Nursery Industry <i>Concept and types of nurseries: ornamental plant nursery, fruit plant nursery, medicinal plant nursery, vegetable plant nursery, orchid nursery, forest nursery (with reference to infrastructures required, outputs, commercial applications and profitability).</i> <i>Propagation methods: Seed propagation, natural vegetative propagation and artificial vegetative propagation (Cutting: Stem, Layering, Air layering, Grafting: Stem grafting and Approach grafting, Budding: T budding).</i></p>
3	Sep	<p>Agri Industries: <i>Organic Farming: Concept, need of organic farming, Types of organic fertilizers, advantages and limitations, Seed industries-Importance of seed industries, seed production, seed processing and seed marketing with reference to cotton. Major seed industries and corporations of India.</i></p> <p>Plant Tissue Culture Industry <i>Concept of tissue culture. Culture techniques: Types of explants, preparation of media, methods of sterilization. Inoculation techniques, incubation and hardening. Commercial significances.</i></p>

4	Oct	<p>Mushroom Industries: Mushroom cultivation: Plant resources, cultivation practices of Oyster mushroom, uses of mushrooms, value added products, commercial significance</p> <p>Revision & Question paper discussion Internal Theory Examination</p>



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Teaching Plan

F. Y. B. Sc. - Botany: 2018- 19

Plant Diversity

(Term - I; Paper I)

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2	Aug	Fungi: General characters, Outline classification according to G.M. Smith (1955) up to classes with reasons. Life cycle of <i>Cystopus (Albugo)</i> . Lichens: General characters, Nature of Association, Types of Lichens on the basis of thallus morphology, Economic importance of lichens. Bryophytes: General characters, Outline classification according to G.M. Smith (1955) up to classes with reasons. Life cycle of <i>Riccia</i> .	SMJ
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4	Oct	Angiosperms: General characters, Causes of evolutionary success of Angiosperms, comparative account of monocotyledons and dicotyledons. Revision & Question paper discussion Internal Theory Examination	SMJ

SMJ
Dr. Shilpa Jagtap

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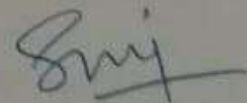
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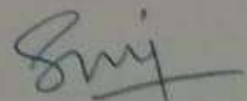
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Warananagar

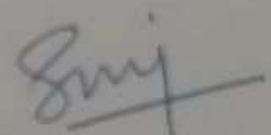
Teaching Plan
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(Term – I; Paper – II)

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SMJ
 Dr- Jaydeep S.M.

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 Sahakar Bhawan
 K. J. Somaiya Institute of Science & Technology

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