

G.C. Sofidon (2025-2026) Class - B.Sc. Ist
Lesson Plan (odd Sem)

Months -
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Paper Name - Diversity of microbes, Algae, Fungi & Archaeogoniates

August

Bacteria, Virus - structure reproduction, Economic Importance. Algae - general characters, Volvox, Nostoc and Vaucheria, Polysiphonia Ectocarpus.

September

Fungi - Penicillium and Puccinia, Phytophthora, Collectotrichum, Lichens - General account & Economic Imp.

October

Pteridophytes - Gen. characters and Economic Imp (classification by Smith in 2006) Str. & reproduction of Rhynia

November

Sellaginella, Equisetum, Pteris, Gymnosperms - Classification, Case study - Cycas and Pinus.

Submitted by: - Mrs. Jyotikanwal
Extension Lectr in
Botany
G.C. Sofidon
(Jind)

G. Co. Safidon (Jind)
Lesson Plant - Session 2025-2026

B.Sc - IInd Year (IIIrd Ed Semester)

Paper name - Plant Physiology

Months ↓

August

Plant water relations, absorption, water potential, transpiration, micro and macro nutrients - Role, Photosynthesis.

September

Respiration, mechanism of action & uses of auxin gibberellins, cytokinin, ABA, ethylene, Lipid metabolism & Nitrogen metabolism.

October

Str., function of phytochromes, stomatal movement, photoperiodism & Biological clocks, mechanism of flowering.

November

Plant growth concept - factors affecting germination & dormancy of seeds, senescence & abscission.

Submitted by:-
Mrs. Tyoti Karmal
B.A. Lect in Botany
G.C. Safidon.

G.C. Safidon (2025-2026)

Lesson Plan (odd Sem)

B.Sc. Semester - Vth Year IIIrd

Months :-

Paper name - Economic Botany and Plant Biotechnology

August

Food Plants - cereals & millets, origin & distribution
botanical description of Rice, Wheat, Maize, Pulses,
Gram Arhar, Pea, Potato, Tomato, Onion

September

Oil yielding crops - Groundnut, Mustard, Coconut,
spices and condiments, Medicinal Plants, Beverages - Tea and
Coffee - processing, Rubber & sugar, Timber

October

Plant Tissue Culture - Concept, History, Scope and Applications
Totipotency, organogenesis, cryopreservation. Types of culture -
Seed, Embryo, callus, suspension, organs, cell Protoplast culture
Haploids - Androgenic methods, Anther culture,
Cybrids & Soma clonal variation

November

Introduction & Applications, Direct DNA transfer / physical
methods of gene transfer in plants - microprojectile,
Bombardment, Electroporation, Vectors, Agrobacteria
as vector.

Submitted by -
Mrs. Jyoti K. K. K.
Extension Lecturer
Botany
G.C. Safidon (Jind)

G.C. Safidori (2025-2026)
Lesson Plan (Cold Sem)
B.A.D.-M.D.C. Sem - III

Paper name - Ornamental Plants and Propagation

August Botanical Gardens and History of Botanical Gardens

September Significance of shrubs, trees, palms, ferns,
Cycads, cacti & succulents, climbers -
Bonsai plants as ornamental plants

October Flower and seed production, protected
cultivation of ornamentals - Principles of
Vegetative Propagation

November Scope of Floriculture of plants: Budding,
Cutting, grafting, layering & propagation
by specialized stem and roots.

Submitted by:-

Mrs. Jyoti Kanwal
Extension lecturer

Botany

G.C. Safidori Jind