

Govt. Post Graduate Nehru College, Jhajjar Lesson Plan (2026-27)

Teacher Name: Dr. Sonia Rathee

Class: BSc Life Science IInd yr (3rd Semester)

Paper: Plant Taxonomy

Month/ Week	Topics
August	Taxonomy and Systematics, Fundamental components of taxonomy (identification, classification, description, nomenclature and phylogeny; Role of chemotaxonomy, Role of cytotaxonomy and taximetrics in relation to taxonomy, taxonomic ranks, Botanical nomenclature, principles and rules, principle of priority, Type concept, Keys to identification of plant. Type concept, taxonomic ranks
September	Salient features of the systems of classification of angiosperms proposed by Bentham & Hooker, Salient features of the systems of classification of angiosperms proposed by Engler & Prantl, Floral Terms and Types of Inflorescences. BSI, NBPGR, NBRI. Indian contribution in plant taxonomy
October	Biodiversity hotspots: Global and Indian perspectives Diversity of Flowering Plants: Diagnostic features and economic importance of the Ranunculaceae, Brassicaceae, Malvaceae, Euphorbiaceae, Rutaceae, Fabaceae and Cucurbitaceae, Rosaceae, Apiaceae, and Apocyanaceae
November	Diagnostic features and economic importance of Asclepiadaceae, Lamiaceae, Solanaceae, Asteraceae, Liliaceae, and Poaceae

Teacher Incharge

Head of Department

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Class: BCom IInd yr (3rd Semester)

Paper: Plants in Everyday Life (MDC)

Month/ Week	Topics
August	Ethnobotany: Concept and scope; Ethnobotanical importance of some plants, Economic and ecological importance of agro and social forestry, Sacred Groves: Concept, scope and ecological significance; Major threats to sacred groves Sacred groves in India; conservation and management strategies Green revolution: Benefits and adverse consequences; Concept of indigenous, exotic and invasive species
September	Cereals: Brief idea of cultivation and economic uses of: Wheat, Rice and Maize, Nutritional significance of millets (Jowar, Bajra, Ragi) Spices: Brief description and uses of important spices (haldi, black pepper, ajwain, hing), Brief idea of cultivation and economic uses of important legumes (gram, moong), fibers (cotton, jute)
October	Brief idea of cultivation and economic uses of oil-yielding plants (mustard, coconut), Brief idea of cultivation and economic uses of Medicinal plants: Economic importance and health hazards of - <i>Nicotiana tabacum</i> (Tobacco); <i>Cannabis sativa</i> (Bhang), <i>Papaver somniferum</i> (Poppy), <i>Melia azadirachta</i> (Neem), General account of timber yielding plants with special reference to Shisham (<i>Dalbergia sissoo</i>), Teak (<i>Tectona grandis</i>)
November	General account of timber yielding plants Sal (<i>Shorea robusta</i>) and Deodar (<i>Cedrus deodara</i>), Bamboo: The green gold of India Different types of woods and their commercial importance Role of plants in bio-fuel production, General account of avenue trees and ornamental plants of India

Teacher Incharge
Sonia Rathee
25/8/26

Arvind
Head of Department