

Course Code: BOT 202 (B040302P)
Course Title: Plant Identification technology
Credits: 0+2

17.08.2022	1.	Dr AKS/ Dr AKG	I Herbarium: Plant collecting, Preservation and Documentation: ANY 3Stepwise Practicing Herbarium techniques: a. FIELD EQUIPMENTS, Global Positioning System (GPS) instrument & b. Learn to handle Herbarium making tools d. Special treatments for all varied groups of plants f. Label them using Standard method g. Organize them and give Index Register Number	a .Collection of any wild 25 plant specimens c. Pressing and Drying of collected plant specimens e. Mount on standard herbarium sheets
24.08.2022	2.	Dr AKS/ Dr AKG	I Herbarium: Plant collecting, Preservation and Documentation: ANY 3Stepwise Practicing Herbarium techniques: a. FIELD EQUIPMENTS, Global Positioning System (GPS) instrument & b. Learn to handle Herbarium making tools d. Special treatments for all varied groups of plants f. Label them using Standard method g. Organize them and give Index Register Number	a .Collection of any wild 25 plant specimens c. Pressing and Drying of collected plant specimens e. Mount on standard herbarium sheets
25.08.2022	3.	Dr AKS/ Dr AKG	II Taxonomic Identification using plant structure a. Classify 25 plants on the basis of Taxonomic description (Plant Morphology, Anatomy, Reproductive parts, Habit, adaptation anomalies) according to Bentham and Hooker natural system of classification in the following families: Malvaceae, Fabaceae (Papilionaceae), Solanaceae, Scrophulariaceae, Acanthaceae, Labiatae (Lamiaceae), Rubiaceae.	a. Classify 25 plants on the basis of Taxonomic description
31.08.2022	4.	Dr AKS/ Dr AKG		Malvaceae, OR
1.09.2022	5.	Dr AKS/ Dr AKG		Fabaceae OR
7.09.2022	6.	Dr AKS/Dr AKG		Scrophulariaceae,
15.09.2022	7.	Dr AKS/ Dr AKG		Solanaceae OR
21.09.2022	8.	Dr AKS/ Dr AKG		Acanthaceae, OR
22.09.2022	9.	Dr AKS/ Dr AKG		Labiatae
28.09.2022	10	Dr AKS/ Dr AKG	III Identification during excursions a. Conducting Spot identification (Binomial, Family) of common wild plants from families included in the theoretical syllabus (list to be provided) and making FIELD NOTE BOOK and filling Sample page of field-book, used in BSI b. Describe/compare flowers in semi-technical language giving V.S. of flowers, T.S. of ovaries, floral diagrams and Floral Formulae. Identify and assign them to their respective families giving reasons.	Spot identification (Binomial, Family) of common wild plants
29.09.2022	11	Dr AKS/ Dr AKG		compare flowers in semi-technical Describe flowers in

				semi-technical language
12.10.2 022	12	Dr AKS/ Dr AKG	Iv collection, preservation and storage of algae ,fungiBryophytes,pteridophytes (2 each	ALGAE, FUNGI BRYOPHYTES, PTERIDOPHYTES
13.10.2 022	13	Dr AKS/ Dr AKG	V Botanical Nomenclature & reporting Method: a. Give nomenclature to collected plants as per ICN rules and prepare labels as per BSI b. Author Citation, Effective Publication and Principle of Priority: To show aspecimen paper on Basic structure of a taxonomic Research published on a new species in taxonomic journal	Nomenclature to collected plants Prepare labels
19.10.2 022	14	Dr AKS/ Dr AKG		Author Citation, Effective Publication and Principle of Priority (use journal pattern)
20.10.2 022	15	Dr AKS/	VI COMPUTERS 1. Learning to use EXCEL Microsoft PowerPoint and Word., WORKING WITH FOLDER AND WINDOWS UTILITY., CREATE AND MANAGE FILES AND FOLDER TREE, 2. Practice browsing different sites using search engines. practice and understand different E-Mail services – Outlook, Yahoo mail, rediffmail etc. Practice Creating E-Mail accounts, Sending, Receiving & Storing of mails. 3. Create and Participate in virtual conferencing in an interactive Zoom Meeting	Practice Creating E-Mail accounts interactive Zoom Meeting Learning WORD ,Power Point
2.11.20 22	16	Dr AKG	VII Computer Application in taxonomy 1. Use Taxonomic Softwares (Dichotomous Key) 2 . Practicals on Phylogenetic analysis 3. Make line drawing of Plants for description 4.Using of plant identification apps on android phones	Use Taxonomic Softwares (Dichotomous Key) Practicals on Phylogenetic analysis
3.11.20 22	17	Dr AKS/		plant identification apps on android phones
9.11.20 22	18	Dr AKG	VIII 1. Create a Bonsai of any plant 2. Develop a miniature garden 3. Draw Layouts of various types of gardens 4. Plant Propagation methods practice	Plant Propagation methods practice
10.11.2 022	19	Dr AKS/ Dr AKG		Create a Bonsai miniature garden