

MAHARANA PRATAP MAHAVIDHYALAYA JUNGLE DHUSAR GORAKHPUR BOTANY DEPARTMENT Semester - IV				
Date	Lecture Number	Teacher's Name	Unit	Topic
16.01.2025	1	Dr.AKS/ Dr. AKG	Economic Botany & Micro-technique:	Cereals: Wheat (habit sketch, L.S./T.S. of grain, starch grains, micro-chemical tests);rice
22.01.2025	1	Dr.AKS/ Dr. AKG		Legume: Pea or ground nut
23.01.2025	2	Dr.AKS/ Dr. AKG		Source of sugars and starches: Sugarcane (habit sketch; cane juice- micro-chemical tests);
29.01.2025	2	Dr.AKS/ Dr. AKG		potato (habit sketch, morphology, T.S. of tuber.
30.01.2025	3	Dr.AKS/ Dr. AKG		Tea- tea leaves, tests for tanninMustard- plant specimen, seeds, tests for fat in crushed seeds Timbers: section of young stem.
05.02.2025	4	Dr.AKS/ Dr. AKG		Jute- specimen, t s of stem, tests for lignin on T.S. of stem and Study of fiber BY maceration technique.
06.02.2025	5	Dr.AKS/ Dr. AKG		Study of specimens of economic importance AS in Unit I- II
13.02.2025	6	Dr.AKS/ Dr. AKG	II Commercial Cultivation	Field visit to Green houses for understanding Floriculture & vegetables production
19.02.2025	7	Dr.AKS/ Dr. AKG		Development of hydroponics nutrient solutions & running models for cultivation of vegetablesHydroponics, nutrient solutions & models for cultivation of fodder
20.02.2025	8	Dr.AKS/ Dr. AKG	III Cultivating Medicinal and aromatic plants & Essential oil extraction	a. Lemon grass/ Neem/
27.02.2025	8	Dr.AKS/ Dr. AKG		Zinger /Rose/Mint

05.03.2025	9	Dr.AKS/ Dr. AKG	IV Docu- mentation from Traditio- nal Knowled- ge Digital Library,	-Nakshtra- Vatika, developed IN COLLEGE
06.03.2025				Navgrah vatika developed in college Mark Geographic Indications on Map,
19.03.2025	10	Dr.AKS/ Dr. AKG		To extract the names of the plants and Botanical uses depicted in our epics.Visit NISCAIR,New Delhi
20.03.2025	11	Dr.AKS/ Dr. AKG	V Ethno- botany	Study of common plants used by tribes. Aegle marmelos, Ficus religiosa,Cynodon dactylon
26.03.2025				MID TERM
27.03.2025				MID TERM
02.04.2025	12	Dr.AKS/ Dr. AKG		Visit a tribal area and collect information on their traditional method of treatment using crude drugs
03.04.2025	13	Dr.AKS/ Dr. AKG		Familiarize with at least 5 folk medicines and study the cultivation, extraction and its medicinal application.Observe the plants of ethno botanical importance in your area.
09.04.2025	15	Dr.AKS/ Dr. AKG		Visit to an Ayurveda college or Ayurvedic Research Institute / Hospital
16.04.2025	16	Dr.AKS/ Dr. AKG	VII Pharmaco- gnosy Organolep- tic studies of plants in the theory	Develop Capsules of herbs/ Develop Herbal oils/ Develop Poultice/cream
17.04.2025	17	Dr.AKS/ Dr. AKG		Analyse some active ingredients using chromatography /Spectrophotometry
23.04.2025	18	Dr.AKS/ Dr. AKG		Morphological studies of vegetative and floral parts ORGANOLEPTIC Microscopic preparations of root, stem and leaf.Proteins and. Starch test
24.04.2025	19	Dr.AKS/ Dr. AKG	VIII Phytoche- mistry:	Determination of the percentage of foreign leaf in a drug composed of a mixture of leaves.Dimensions of Calcium oxalate crystals in powdered crude drug.
30.04.2025	20	Dr.AKS/ Dr. AKG		Preliminary phyto-chemical tests for alkaloids, terpenoids, glycosides, volatile oils,tannins & resins.Any 5 herbal preparations

