

MAHARANA PRATAP MAHAVIDHYALAYA JUNGLE DHUSAR GORAKHPUR
BOTANY DEPARTMENT
Course Code: BOT 103F
Semester II
Course Title: Biodiversity II

Date	Lecture Number	Teacher's Name	Unit	Topic
16.01.2025	1	Dr AKG	Angiosperm Morphology	(Stem, Roots, Leaves & Flowers, Inflorescence)
17.01.2025	2	Dr AKG	I	Morphology and modifications of roots;
18.01.2025	3	Dr AKS	Plant Anatomy	Meristematic and permanent tissues
20.01.2025	4	Dr AKG	I	Organs (root, stem and leaf)
21.01.2025	5			CT
22.01.2025	6	Dr AKS	II	stem, leaf and bud.
23.01.2025	7	Dr AKG	I	Types of inflorescences;
24.01.2025	8	Dr AKG	I	Apical meristems & theories on apical organization -
25.01.2025	9	Dr AKS	II	Apical cell theory, Histogen theory
27.01.2025	10	Dr AKG	I	flowers, flower parts,
28.01.2025	11			Class Teaching
29.01.2025	12	Dr AKG	I	fruits and types of placentation;
30.01.2025	13	Dr AKS	II	Tunica -Corpus theory.
31.01.2025	14	Dr AKS	II	Secondary growth - Root and stem-
01.02.2025	15	Dr AKG	I	Definition and types of seeds
04.02.2025	16	Dr AKS	II	Cambium (structure and function) annular rings,
05.02.2025	17			Class Teaching
06.02.2025	18		Anomalous secondary growth	Bignonia, Boerhaavia,
07.02.2025	19	Dr AKG	Palynology	Pollen structure, pollen morphology
08.02.2025	20	Dr AKS	II	Dracaena, Nyctanthes
10.02.2025	21	Dr AKS	Reproductive Botany	Plant Embryology
11.02.2025	22	Dr AKS	III	Structure of microsporangium, microsporogenesis,
13.02.2025	23			Class Teaching
14.02.2025	24	Dr AKG	IV	Pollen allergy,
15.02.2025	25	Dr AKG	IV	Applied Palynology: Basic concepts,
17.02.2025	26	Dr AKS	III	Structure of megasporangium and its types,
18.02.2025	27	Dr AKS	III	megasporogenesis, Structure and types of female gametophyte,
19.02.2025	28	Dr AKG	IV	Palaeopalynology, Aeropalynology,
20.02.2025	29			Class Teaching
21.02.2025	30	Dr AKG	IV	Forensic palynology, Role in taxonomic evidences.

22.02.2025	31	Dr AKS	III	Types of pollination, Methods of pollination
24.02.2025	32	Dr AKS	III	Germination of pollen grain, structure of male gametophyte,
25.02.2025	33	Dr AKG	Identification of Angiospermic families -	A study of the following families with emphasis on the morphological peculiarities and economic importance of its members (based on Bentham & Hooker's system) Ranunculaceae,
27.02.2025	34	Dr AKG	VI	Papaveraceae
28.02.2025	35			Montly Evaluation
01.03.2025	36	Dr AKS	III	Fertilization, structure of dicot and monocot embryo,
03.03.2025	37	Dr AKS	III	Endosperm, Double fertilization,
04.03.2025	38	Dr AKG	VI	Malvaceae,
05.03.2025	39	Dr AKG	VI	Rutaceae
06.03.2025	40	Dr AKS	III	Apomixis and polyembryony
07.03.2025	41			Class Teaching
08.03.2025	42	Dr AKS	Taxonomic Resources & Nomenclature	Components of taxonomy (identification, nomenclature, classification)
10.03.2025	43	Dr AKG	VI	Fabaceae,
11.03.2025	44	Dr AKG	VI	Myrtaceae,
17.03.2025	45	Dr AKS	V	Taxonomic resources: Herbarium- functions & important herbaria,
18.03.2025	46	Dr AKS	V	Botanical gardens, Flora, Keys- single access and multi-access.
19.03.2025	47			Class Teaching
20.03.2025	48	Dr AKG	VI	Cucurbitaceae,
21.03.2025	49	Dr AKG	VI	Rubiaceae,
22.03.2025	50	Dr AKS	V	Principles and rules of Botanical Nomenclature according to ICN
24.03.2025				MID TERM
25.03.2025				MID TERM
26.03.2025				MID TERM
27.03.2025				MID TERM
28.03.2025				MID TERM
29.03.2025				MID TERM
01.04.2025	51	Dr AKS	V	(ranks and names; principle of priority, binomial system; type method,author citation, valid-publication).
02.04.2025	52	Dr AKG	VI	Asteraceae,
03.04.2025	53			Class Teaching
04.04.2025	54	Dr AKS	V	Types of classification:Artificial, natural and phylogenetic
05.04.2025	55	Dr AKS	V	Bentham and Hooker (upto series),
07.04.2025	56	Dr AKG	VI	Apocynaceae,
08.04.2025	57	Dr AKG	VI	Acanthaceae,
09.04.2025	58	Dr AKS	V	Engler and Prantl (upto series)
11.04.2025	59			Class Teaching

12.04.2025	60	Dr AKS	V	angiosperm phylogeny group (APG IV)
15.04.2025	61	Dr AKG	VI	Asclepiadaceae,
16.04.2025	62	Dr AKG	VI	Solanaceae.
17.04.2025	63	Dr AKS	Identification of Angiospermic families -II:	Study of the following families with emphasis on the morphological peculiarities and economic importance of its members (based on Bentham & Hooker's system)-Amaranthaceae,
19.04.2025	64	Dr AKS	VII	Euphorbiaceae,
21.04.2025	65			Class Teaching
22.04.2025	66	Dr AKG	Modern trends in Plant taxonomy:	Brief idea on Phenetics, Biometrics,
23.04.2025	67	Dr AKG	VIII	Cladistics (Monophyletic, polyphyletic and paraphyletic groups; Plesiomorphy and apomorphy).
24.04.2025	68	Dr AKS	VII	Apiaceae
25.04.2025	69	Dr AKS	VII	Lamiaceae, Orchidaceae,
26.04.2025	70	Dr AKG	VIII	TOOLS & SOFTWARES IN PLANT IDENTIFICATION: GIS (i) Patterns(ii) Features (iii) Quantities
28.04.2025	71	Dr AKG	VIII	Digital Taxonomy (e-flora), Description Language for taxonomy –DELTA,internet directory for botany.
29.04.2025	72	Dr AKS	VII	Liliaceae, Musaceae
30.04.2025	73	Dr AKS	VII	Poaceae