

ANNUAL ACADEMIC PLAN 2023-2024

BOTANY

I YEAR

Month/ No. of working days & Periods	Topics to be covered/Unit – Test / Exams / Assignments / EAMCET/NEET classes to be conducted	Periods allotted for each topic
June 24	<p><i>Syllabus dictation and discussion of IPE Question paper along with scheme of valuation- weightage of marks to each chapter.</i></p> <p>Unit-I DIVERSITY IN THE LIVING WORLD</p> <p>CHAPTER-I THE LIVING WORLD</p> <p>1.1 What is living ? 1.2 Diversity in the living world 1.3 Taxonomic categories 1.4 Taxonomic aids.</p> <p>EAMCET / NEET</p> <p>CHAPTER-2 BIOLOGICAL CLSASSIFICATION</p> <p>2.1 Kingdom Monera, 2.2 Kingdom Protista, 2.3 Kingdom Fungi 2.4 Kingdom Plantae 2.5 Kingdom Animalia. } 2.6 Six kingdom classification } 2.7 Viruses, Viroids, Prions and Lichens.</p> <p>Assignment -I IPASE 12-06-23 TO 20-06-23</p>	01 01 01 01 01 01 02 02 03 01 01 01
July 23	<p>EAMCET / NEET</p> <p>CHAPTER-3 SCIENCE OF PLANTS – BOTANY</p> <p>3.1 Origin 3.2 Development 3.3 Scope of Botany } 3.4 Branches of Botany }</p> <p>EAMCET / NEET</p> <p>CHAPTER-4 PLANT KINGDOM</p> <p>4.1 Algae 4.2 Bryophytes</p>	03 01 01 01 02 02

	4.3 Pteridophytes 4.4 Gymnosperms 4.5 Angiosperms 4.6 Plant Life cycles and Alternation of Generations EAMCET/NEET UNIT – II STRUCTURAL ORGANISATION IN PLANTS. MORPHOLOGY CHAPTER-5 MORPHOLOGY OF FLOWERING OF FLOWERING PLANTS 5.1 The root ASSIGNMENT – II UNIT – TEST – I PRACTICALS : #Practical syllabus dictation #Q.P.Model #1.Study of the parts of compound microscope	01 02 01 01 02 02 01 01 02 02 01 01 02 02 02 03 03 02 01 02 02 03 01 01 01 01 02 02 01 01 02 02 04 01
Aug 25	5.2 The stem 5.3 The leaf 5.4 The inflorescence 5.5 The Flower 5.6 The Fruit 5.7 The Seed EAMCET/NEET UNIT-III REPRODUCTION IN PLANTS CHAPTER- 6 MODES OF REPRODUCTION 6.1Reproduction and its types } 6.2 Asexual reproduction } 6.3 Sexual reproduction } 6.4 An overview of angiosperm life cycle ASSIGNMENT – III UNIT – TEST – II PRACTICALS : #2.Identification and study of the Morphology of representative types of Bacteria, Fungi & different plant groups.	02 02 03 03 02 01 02 02 03 01 01 01 01 02 02 03 01 01 02 02 04 01
SEPT 22	EAMCET/NEET CHAPTER-7 SEXUAL REPRODUCTION IN FLOWERING PLANTS 7.1Pre fertilization structures and events. 7.2 Pollination	02 04 01

	<p>#8.Calculation of % of pollen germination #9.Study of pollen tube growth on stigma #10.Study and identification of various stages of Female gametophyte development in the ovary of a flower. #11.Study and describing flowering plants of family Fabaceae</p>	
NOV 24	<p>9.5.8 Cilia and Flagella } 9.5.9 Centrosome and centrioles } 9.5.10 Nucleus } 9.5.11 Microbodies (Peroxisomes and glyoxysomes)} EAMACET/NEET</p> <p>CHAPTER- 10 : BIOMOLECULES.</p> <p>10.1 How to analyse chemical composition 10.2 Primary and secondary metabolites, 10.3 Bio-macromolecules 10.4 Proteins 10.5 Polysaccharides 10.6 Nucleic acids 10.7 Structure of proteins 10.8 Nature of bond linking monomers in a polymer 10.9 Dynamic state of body constituents – concept of Metabolism 10.10 Metabolic basis for living } 10.11 The living state }</p>	<p>01 02 02</p> <p>02 01 01 01 01 01 01 01 01 01 01 01</p>
	<p>HALF YEARLY EXAMS 20-11-2023 TO 25-11-2023</p>	
	<p>PRACTICALS: #12.Study and describing flowering plants of family Solanaceae #13.Study and describing flowering plants of family Liliaceae</p>	<p>02</p>
DEC 23	<p>EAMCET/NEET CHAPTER 11 CELL CYCLE AND CELL DIVISION</p> <p>11.1 Cell cycle 11.2 M.phase 11.3 Significance of Mitosis } 11.4 Meiosis 11.5 Significance of Meiosis</p> <p>EAMCET/NEET UNIT-VI INTERNAL ORGANISATION OF PLANTS</p>	<p>02 01 02 02 01 02</p>

	CHAPRER-12 HISTOLOGY AND ANATOMY OF FLOWERING PLANTS 12.1 The tissues 04 12.2 The tissue systems 02 12.3.1 Anatomy of Dicotyledonous Root 02 12.3.2 Anatomy of Monocotyledonous Root 01 ASSIGNMENT – VI 01 UNIT – TEST – IV 01 PRACTICALS : #14.Preparation of Herbarium sheets of flowering plants 02 #15.Study of tissues and diversity in shapes and sizes of plant cells #16. Study of anatomy of root of dicots #17. Study of anatomy of root of monocots	
JAN 23	12.3.3 Anatomy of Dicotyledonous Stem 02 12.3.4 Anatomy of Monocotyledonous Stem 01 12.3.5 Anatomy of Dicotyledonous Leaf 01 12.3.6 Anatomy of Monocotyledonous Leaf 01 12.4. Secondary Growth 03 01 EAMCET/NEET UNIT-VII – PLANT ECOLOGY CHAPTER – 13 ECOLOGICAL ADAPTATIONS, SUCCESSION & ECOLOGICAL SERVICES 13.1 Introduction } 13.2 .1 Hydrophytes } 01 13.2.2 Ecological adaptations in Hydrophytes 01 13.2.3 Mesophytes 01 13.2.4 Xerophytes 01 13.2.5 Ecological adaptations in Xerophytes 02 13.3 Plant Succession 02 13.4 Ecological Services/Ecosystem services 01 EAMCET/NEET 02 ASSIGNMENT – VII 01 PRACTICALS : #18. Study of anatomy of Stem of dicots 02 #19. Study of anatomy of Stem of monocots #20. Preparation and study of mitosis in onion root tips (To be demonstrated by teacher) #21. Study of stages of meiosis using permanent slides	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> SANKRANTI HOLIDAYS 13-01-2024 To 16-01-2024 (SECOND TERM HOLIDAYS) </div>		

FEB 22	REVISION PRE-FINAL EXAMINATIONS	22
MAR 23	INTERMEDIATE PUBLIC EXAMINATIONS (THEORY) 1ST WEEK OF MARCH LAST WORKING DAY 31-03-2024	23

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