

ANNUAL ACADEMIC PLAN 2024-2025

BOTANY

I YEAR

Month/ No. of working days & Periods	Topics to be covered/Unit – Test / Exams / EAPCET/NEET classes to be conducted	Periods allotted for each topic
June 23	<p>Syllabus dictation and discussion of IPE Question paper along with scheme of valuation- weightage of marks to each chapter.</p> <p>Unit-I DIVERSITY IN THE LIVING WORLD</p> <p>CHAPTER-I</p> <p>THE LIVING WORLD</p> <p>1.1 What is living ?</p> <p>1.2 Diversity in the living world</p> <p>1.3 Taxonomic categories</p> <p>1.4 Taxonomic aids.</p> <p>CHAPTER-2</p> <p>BIOLOGICAL CLASSIFICATION</p> <p>2.1 Kingdom Monera,</p> <p>2.2 Kingdom Protista,</p> <p>2.3 Kingdom Fungi</p> <p>2.4 Kingdom Plantae</p> <p>2.5 Kingdom Animalia.</p> <p>2.6 Six kingdom classification</p> <p>2.7 Viruses, Viroids, Prions and Lichens.</p> <p>CHAPTER-3</p> <p>SCIENCE OF PLANTS – BOTANY</p> <p>3.1 Origin</p> <p>3.2 Development</p> <p>3.3 Scope of Botany</p> <p>3.4 Branches of Botany</p> <p style="text-align: center;">Unit Test - I</p> <p style="text-align: center;">EAPCET/NEET</p>	<p>01</p> <p>01</p> <p>01</p> <p>01</p> <p>01</p> <p>02</p> <p>02</p> <p>03</p> <p>01</p> <p>02</p> <p>01</p> <p>01</p> <p>01</p> <p>01</p> <p>04</p>
July 24	<p>CHAPTER-4</p> <p>PLANT KINGDOM</p> <p>4.1 Algae</p> <p>4.2 Bryophytes</p> <p>4.3 Pteridophytes</p> <p>4.4 Gymnosperms</p> <p>4.5 Angiosperms</p>	<p>02</p> <p>02</p> <p>02</p> <p>02</p> <p>02</p>

	4.6 Plant Life cycles and Alternation of Generations	01
	UNIT – II STRUCTURAL ORGANISATION IN PLANTS. MORPHOLOGY CHAPTER-5 MORPHOLOGY OF FLOWERING OF FLOWERING PLANTS 5.1 The root 5.2 The stem 5.3 The leaf PRACTICALS : #Practical syllabus dictation #Q.P.Model #1.Study of the parts of compound microscope Unit Test - II EAPCET/NEET	02 02 02 02 01 04
Aug 24	5.4 The inflorescence 5.5 The Flower 5.6 The Fruit 5.7 The Seed 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 PRACTICALS : #2.Identification and study of the Morphology of representative types of Bacteria, Fungi & different plant groups. Unit Test - III EAPCET/NEET	03 03 03 01 03 03 01 02 01 04
SEPT 22	CHAPTER-7 SEXUAL REPRODUCTION IN FLOWERING PLANTS 7.1Pre fertilization structures and events. 7.2 Pollination 7.3 Pollen pistil interaction 7.4 Double fertilization 7.5 Post fertilization structures and events 7.6 Apomixis, Parthenocarpy and polyembryony	03 02 01 02 01 01

	PRACTICALS : #14.Preparation of Herbarium sheets of flowering plants #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 Unit Test – VI EAPCET/NEET	02 01 04
JAN 22	12.3.5 Anatomy of Dicotyledonous Leaf 12.3.6 Anatomy of Monocotyledonous Leaf 12.4. Secondary Growth UNIT-VII – PLANT ECOLOGY CHAPTER – 13 ECOLOGICAL ADAPTATIONS, SUCCESSION & ECOLOGICAL SERVICES 13.1 Introduction 13.2.1 Hydrophytes 13.2.2 Ecological adaptations in Hydrophytes 13.2.3 Mesophytes 13.2.4 Xerophytes 13.2.5 Ecological adaptations in Xerophytes 13.3 Plant Succession 13.4 Ecological Services/Ecosystem services PRACTICALS : #18. Study of anatomy of Stem of dicots #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 EAPCET/NEET <div style="border: 1px solid black; padding: 5px; text-align: center;"> SANKRANTI HOLIDAYS 11-01-2025 To 16-01-2025 (SECOND TERM HOLIDAYS) PRE-FINAL EXAMINATIONS 20-01-2025 To 25-01-2025 </div>	01 01 01 01 02 01 01 01 01 02 04 06
FEB 23	REVISION	23
MAR 23	INTERMEDIATE PUBLIC EXAMINATIONS (THEORY) 1ST WEEK OF MARCH LAST WORKING DAY 29-03-2025	23

Prepared by **T. SRINIVAS RAO** JL IN BOTANY
GOVERNMENT JUNIOR COLLEGE IBRAHIMPATNAM,
RANGA REDDY DIST