

J.V.R GOVERNMENT COLLEGE: SATHUPALLY

DEPARTMENT OF BOTANY

ANNUAL ACTION PLAN-2020-21

| S.NO | MONTH | CURRICULAR | CO-CURRICULAR | EXTRA CURRIUCLAR | Remarks |
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| 1 | JUNE | SEM I ADMISSION CAMPAIGN | Admissions campaign | | |
| | | SEM III Unit-I Meristems,Tissues and Tissue systems | | Telangana state formation Day,June2nd | |
| | | SEMV Cell Biology & Genetics: Unit I Plant cell envelops,Nucleus-Practicals as per syllabus- Elective:Ecology & Biodiversity : Unit I Concept and components of Ecosystem,Definition of Environment,Plants and Envrionment. | | International Yoga Day- June21 | |
| 2 | JULY | Sem I UNIT-I Bacteria,Viruses | Assignment No.1 | Haritha haaram- Plantation Programme | |
| | | Sem III Leaf,Stem and root anatomy,Anomalous secondary growth of stem,root. | | | |

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| | | Sem V: Cell Biology & Genetics: Chromosomes-Karyotype,DNA Replication,Special types of Chromosomes -Practical as per syllabus Elective:Ecology & Biodiversity: Ecological adaptations of Plants; Unit-II Edaphic Factors,Population Ecology,Community Ecology | | | |
| 3 | August | SEM I: Important Plant diseases,General characters and classification of Algae,Cyanobacteria | Student Seminars INTERNAL ASSESSMENT-1 | Independence Day Celebrations | |
| | | Sem III Leaf,Stem and root anatomy,Anomalous secondary growth of stem,root. | | Eco-Club Activities | |
| | | Sem V: Cell Biology & Genetics-Practical as per syllabus Unit-II Extra nuclear genome, Mitochondrial and Plastid DNA,Plasmids Cell cycle and its regulation,Mitosis and Meiosis Elective:Ecology & Biodiversity: Unit III: Community Dynamics,Production ecology,Biodiversity | | | |
| 4 | September | SEMI:Structure and Reproduction of Cholorphyceae-Volvox,Oedogonium,charaPhaeophyceae-Ectocarpus,Rhodophyceae-Polysiphonia | Student study project | WORLD OZONE DAY- Sep.16DEBATE COMPETITION | |
| | | SEMIII Wood structure,study of local timbers.Unit-III History and and Importance of Embryology.Anther structure,Microsporogenesis,Male gametophyte. | Academic competitions | | |

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| | | SEM V: Cell Biology & Genetics: Mutations- Unit-III Mendelism Linkage, Genetic Maps, Two Point Test cross and Three point test cross data-Practical as per syllabus Elective:Ecology & Biodiversity: Unit-IV Biodiversity- Levels,threats,and Value Hot spots of India. | | | |
| 5 | October | SEM1: Unit-III. General Characters and classification of Fungi,Structure and reproduction of Mastigomycotina,Zygomycotina,Ascomycotina,Basidiomycotina&Deuteromycotina | Extension lecture Field trip for SemI Algal collection | Gandhi Jayanthi- October2nd | |
| | | SEMIII: Unit-III -Mega sporogenesis,types and development of female gametophyte. | | Bathukamma Celebrations Botanical Garden work | |
| | | SEM V:Cell Biology & Genetics:Unit IV Gene Organization,Mechanism of transcription in Prokaryotes and Eukaryotes,-Practical as per syllabus | | | |
| 6 | November | SEM1: Unit-IV Structure,reproduction lifcycle of Bryophyta,Pteridophyta ,Stelar Evolution,Heterosporry,and Seed habit in Pteridophytes | Internal Assessment-II | Anti-ragging awarness week Anti-Drug adition awareness, QR CODING OF PLANTS | |
| | | SEM:II Unit-IV- Pollen Morphology,Seed,Endosperm,Poly embroyony,Apomixis | | | |

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| | | SEM V: Cell Biology & Genetics: Mechanism of transcription and Regulation of Gene -Practical as per syllabus Elective: Ecology & Biodiversity: Red Data Book, Principles of Conservation-Insitu and Ex-situ-WWF and NBPGR | | | |
| 7 | December | SEMESTER PRACTICAL EXAMINATIONS | | | |
| | | Semester Examinations | | WORLD AIDS DAY - ACTIVITIES | |
| | SEMESTER- II/IV/VI | | | | |
| 8 | JANUARY | SEM II : Unit I- Gymnosperms Gen.characters,classification,Life cycle of Pinus and Gnetum, Geological Time scale | Student Seminar | | |
| | | SEM: IV Plant cell envelopes, Cell organelles | | | |
| | | SEM VI: Plant Physiology - Unit I Plant water relations, Mineral nutrition, Translocation of Organic solutes. Practical as per syllabus Elective I: Tissue culture and Biotechnology: Unit I Sterilization Procedures, explants, culture media, Organ culture, Callus culture | Student Presentations | | |
| | FEBRUARY | SEM II : Unit-II Artificial, Natural and Phylogenetic systems of classification, Introduction to Angiosperm Phylogeny Group, Current concepts in Taxonomy, --Practical as per syllabus | | World Pulses Day Feb-10 | |
| | | SEM IV: Nucleus, types and Functions of DNA & RNA, Chromosomes, Euchromatin and Heterochromatin, Karyotype | ASSIGNMENT NO. I | National Science Day-Feb- 28th | |

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| | | SEM VI: Plant Physiology: Unit-II Enzymes,Photosynthesis,Carbon assimilation Pathways.Elective I: Tissue culture and Biotechnology: Somatic hybrids and cybrids,Applications of Tissue culture . Production of hairy roots and its applications in production of secondary metabolites. | STUDENT SEMINAR | | |
| | MARCH | SEM II : Introduction to ICN,Shenzhen code-Herbarium concept Unit-III-Systematic study and economic importance of plants belonging to families as per syllabus - Practical as per syllabus | ASSIGNMENT No.2 | BOTANICAL GARDEN WORK | |
| | | SEMIV: Extranuclear genome and Cell division | | | |
| | | SEM VI: Plant Physiology: Unit-III Respiration,Nitrogen metabolism,Lipid metabolism. Elective I: Tissue culture and Biotechnology: Biotechnology,History and scope,r-DNA technology,Gene Cloning vectors | | | |

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| | APRIL | SEM II : Unit IV-Components of of ecosystem,energy flow,Food chain,ecological adaptations of plants,plant succession.INTERNAL ASSESSMENTNO.II -Practical as per syllabus SEM VI: Plant Physiology: Unit-IV Growth and Development,Physiology of Flowering and Photoperiodism and Stress Physiology. Elective I: Tissue culture and Biotechnology: Unit-IV; Gene Libraries,Method of Gene transfer in Plants,Production of Transgenic Plants Practical as per syllabus | STUDENT SEMINAR | | |
| | May | SEMIV: Plant water Relations,Mineral nutrition,Enzymes,Photosynthesis,Respiration,Nitrogen metabolism and Phytohormones--Practical as per syllabus | FIELD VISIT | | |
| SEMESTER PRACTICAL EXAMINATIONS | | | AWARENESS SEMINAR ON CAREER OPPORTUNITIES FOR BOTANYSTUDENTS | | |
| SEMESTER THEORY EXAMINATIONS | | P.G.ENTRANCE COACHING | | | |