

JSS COLLEGE FOR WOMEN, SARASWATHIPURAM
MYSORE-570009
V SEMESTER-LESSON PLAN - CBCS (2021-22)
MORPHOLOGY AND TAXONOMY OF ANGIOSPERMS AND PLANT PROPAGATION
PROGRAMME: B.Sc.

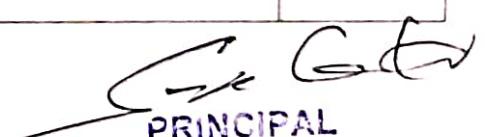
NAME OF THE TEACHER – M.M. SWAMY

DEPARTMENT OF BOTANY

| SL No | MONTH | CONTENTS | NO. OF HOURS |
|-------|-------------------------------------|--|-------------------|
| 01 | OCTOBER (THEORY) (VSEMESTER) | Morphology of angiosperms: Parts of flowering plants (Dicot and Monocot). Brief account on morphology of a flower (Dicotyledonous and Monocotyledonous): Floral parts, aestivation and placentation. Taxonomy: Study of the following families with their economic importance according to Bentham and Hooker system. Dicotyledonous-Magnoliaceae, Brassicaceae, Malvaceae, Economic botany: Oils and fats: Extraction-hot, cold and solvent method. Essential oils. Ethnobotany: Introduction and significance. Examples under ethnobotany: <i>Phyllanthusniruri</i> , <i>P. emblica</i> , <i>Hemidesmusindicus</i> , | 04X04=16 |
| | PRACTICALS (VSEMESTER) | Introduction, Magnoliaceae, Brassicaceae, Malvaceae, Rutaceae, Fabaceae, | 3X5=15 15X4=60 |
| 02 | NOVEMBER (THEORY) (VSEMESTER) | Brief account on classical concept of flower and conduplicate carpel. Seed: Structure of dicot and monocot seed Taxonomy: Principles of taxonomy. A brief account of classical and modern systems of classification. Rutaceae, Fabaceae, Cucurbitaceae, Apiaceae Fibers: Extraction and Processing-Jute.Rubber: Rubber tapping and processing.Sugar: Extraction from sugarcane plant.A general account on wood. <i>Hemidesmusindicus</i> , <i>Terminaliachebula</i> , <i>Strichnosmox-vomica</i> , <i>Aloe vera</i> , <i>Boerhaaviadiffusa</i> and <i>Withaniasomifera</i> .Sacred grooves. | 04X04=16 |

11/11/21


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|----|-------------------------------------|---|-------------------|
| | PRACTICALS (VSEMESTER) | Cucurbitaceae, Apiaceae Rubiaceae, Asteraceae, Asclepiadaceae, Solanaceae, Verbenaceae, Lamiaceae, | 3X5=15 15X4=60 |
| 03 | DECEMBER (VSEMESTER) (THEORY) | Brief account on APG system of classification. Plant nomenclature – Binomial nomenclature, principles. Broad outline of Bentham and Hooker system of classification. Recent trends- Chemotaxonomy Rubiaceae, Asteraceae, Asclepiadaceae, Solanaceae, Spices: Alkaloids in Spice. Tea: Processing of Tea. Principles and advantages of Plant propagation. Methods: Cutting, Grafting and layering. | 04X04=16 |
| | PRACTICALS (VSEMESTER) | Amaranthaceae, Euphorbiaceae. Monocotyledonous – Arecaceae, Liliaceae, Musaceae, Poaceae and Orchidaceae. | 3X5=15 15X4=60 |
| 04 | JANAUARY (VSEMESTER) (THEORY) | Cyto-taxonomy and Numerical taxonomy. Field and herbarium techniques, importance of herbaria, Botanical gardens and flora. Botanical survey of India and its functions. Verbenaceae, Lamiaceae, Amaranthaceae and Euphorbiaceae. Monocotyledonous- Arecaceae, Liliaceae, Musaceae, Poaceae and Orchidaceae. | 04X04=16 |
| | PRACTICALS (VSEMESTER) | Oil and oil yielding plants, Fibre and fibre yielding plants, Rubber yielding plant. Sugar yielding plants., Timber yielding plants: Cereals and millets, Pulses, Spices, Beverages, Narcotic plants. Biodiesel, medicinal plants | 3X5=15 15X4=60 |

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