

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	NOVEMMBER (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

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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	JANUARY (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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