K J SOMAIYA BIOLOGY DEPARTMENT ACADEMIC PLAN S.Y.J.C. BOTANY 1ST TERM 2017–2018

Week		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FIRST TERM EXAM		
Dates		16-Jun 17-Jun	195/06 24-Jun	27-Jun 01-Jul	03-Jul 08-Jul	10-Jul 15-Jul	17-Jul 22-Jul	24-Jul 29-Jul	31-Aug 05-Aug	07-Aug 12-Aug	14-Aug 19-Aug	21-Aug 24-Aug	30-Aug 02-Sep	04-Sep 09-Sep	11-Sep 16-Sep	18-Sep 23-Sep	25-Sep 30-Sep	03-Oct 04-Oct	13-Oct 14-Oct	05-Oct 07-Oct	09-Oct 12-Oct	
DR. SHAILAJA S. MENON	S.Y.J.C Th. C,D,F	REPRODUCTION IN PLANTS - II						RESPIRATION				ORGANISMS & ENVT. II		GENE: ITS NATURE, EXPRESSION AND REGULATION								
		Pollination Definition. and types Merits & demerits	Agencies of Pollination- Abiotic-Agencies I	Biotic-Agencies II	Out breeding devices, Pollen pistil interaction, Double fertilization – Process and signi,	Post fertilization changes – Devt. of endosperm, Types of endosperm, Devt. of embryo,	Formn. of fruits seeds, Partheno., Apomixis and Polyembryony, Signi. of seeds and fruits.	Defn.,ATP &Ultra str. Mitochon. Anaerobic RP.	Glycolysis	TCA	ETS,RQ & Significance	Phosphorous cycle, Ecological succession	Eco.services Envt.al issues	DNA as a genetic material –	Modern Concept of Gene, Eukaryotic DNA, Semi Con.Replication of DNA	Packaging of DNA RNA - General structure, Types and Functions	Genetic Code its Characteristics	Central Dogma of Protein Synthesis	Gene Expression and Gene Regulatn	Terminal exam	Terminal exam	
	S.Y.J.C Pr.		Pr1 Mendelian inheritance	Pr1 Mendelian inheritance	Pr2 Floral dissection	Pr2 Floral dissection	Pr3 Pollen Germination on slide - Vinca flower	Pr3 Pollen Germination on slide - Vinca flower	Pr4 Controlled pollintion Bagging, Tagging	Pr4 Controlled pollintion Bagging, Tagging	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr6 Mitosis	Pr6 Mitosis	Pr7 Xerophyte & Hydrophyte	Pr7 Xerophyte & Hydrophyte	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr9 Population density & frequency			
DR. VINOD T	S.Y.J.C Th. Div. A , C,E	REPRODUCTION IN PLANTS - I					PHOTOSYNTHESIS						ORGANISMS & ENVT. I		GENETIC BASIS OF INHERITANCE							
		Asexual repr.in lower organisms- Asexual repr. in Angio. Veg.pro . Natural	Vegetative propagation- Artificial	Sexual repro. Flower str., anther, T.S., Str. of pollen grain, Devt. of male g. phyte	Str. of Anatropous ovule	functions of parts, Devt. of female g.phyte.	Definition . &Ultra str. of Chloroplast	Photosynthetic pigments & their Role PS 1 PS 2	Mechanism Cyclic Non-cyclic	Calvin cycle & Photorespiration	H.S.K. Pathway & CAM	Significance & Factors affecting P.S	Habitat and Niche, Ecosystem / Ecological system,	Pyramids – no. biomass and energy, C.cycle	Mendel's expt, selection of material, terminology, Procedure	Monohybrid Cross and Ratio	Law of Dominance, Segregation, Dihybrid Cross and Ratio Law of Independent Assortment	Incom. dominanceCodominance, Multiple alleles	Pleiotropy Polygenic inherit., Human Skin colour	Terminal exam	Terminal exam	
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DR. DEVENDRA JADHAV	S.Y.J.C Th. Div.	REPRODUCTION IN PLANTS - I					PHOTOSYNTHESIS						ORGANISMS & ENVT. I	GENETIC BASIS OF INHERITANCE								
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Mrs. SHUBHANGI KHAMKAR	S.Y.J.C Th. Div. A,E	REPRODUCTION IN PLANTS - II						RESPIRATION				ORGANISMS & ENVT. II		GENE: ITS NATURE, EXPRESSION AND REGULATION								
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