

Table 1

INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT.-KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2017-18)

COURSE: UNDER GRADUATION ■

SUBJECT: BOTANY

CLASS: B.Sc Biology

NAME OF FACULTY :- SAVITA PATEL

EXPECTED MONTH	PAPER AND UNIT	TOPIC DESCRIPTION			Practical Classes	No of Expected class	Tutorial / Remedial classes	Co-curricular activities	Extra curricular activities	Teaching Aids
		B.Sc. I	B.Sc. II	B.Sc. III						
July P-I	U-I U-II	Viruses General Characteristics, Types of virus Multiplication of virus Economic importance General account of Virions, Virusoids & Prions, Bacteria: characters & structure, Gram Positive & negative bacteria, Reproduction in bacteria economic importance	Bentham & Hooker's Classification, Nomenclature system, ICBN System of plants, Typification, Preservation Techniques, Important Botanical Garden & Herbaria of plants & Systematic position, Distinguishing Features & Economic Botany :- Botanical name, Family used part & uses of following economically, Ethnobotanical Plants of C.G. Plant anatomy, tissues & Anatomical anomalies	Plant-water relations: Importance of water to plant life, physical properties of water, diffusion and osmosis; absorption, transport of water and transpiration; physiology of stomata, Mineral nutrition:	Regularly all Week in Batch	23+23+23=69	Plantation in campus	Cleanliness and Program me	Using ICT and chalk board	
August P-II	U-II U-IV	Fungi - Habit, structure, Nutrition, reproduction, Heterothallism & parosexuality, Classification & life cycles of fungi genera, Algae:-General characteristics, thalass Organization, Gaidukov phenomena, life Cycle of Algae Genera	Transport of organic substances, enzymology photosynthesis, Cellular Respiration and development; plant movements	Regularly all Week in Batch	24+24+24=72	Independence day,	Soft Skill Program me	PPT, Using ICT and chalk board		
September P-I	U-V	Lichens, General Account, types structure, nutrition, reproduction & economic importance Mycoplasma:- structure & importance Blue Green algae in nitrogen economy of soil & reclamation of usharp land, Mushroom Biotechnology	Genetic engineering basic aspects of plant tissue culture Agrobacterium, vectors for gene delivery and marker genes, salient achievements in crop biotechnology.	Regularly all Week in Batch	22+22+22=66	National Hindi day,	Carrier Guidance e	Using ICT and chalk board		


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October	P-II U-I U-II	Bryophyta:-General Characteristics, affinities, thallus, Ecological importance, Systematic Position, Morphological & Economical Importance & morphological, anatomical & reproductive structures of following genera. Stellar system, in Pteridophytes characters, aposporous and apogamy, heterospory & seed habit telome theory, Azolla	Introduction & Scope of Ecology, Environmental factors, soil profile, Morphological & Anatomical Anamolies	Plants and environment & Morphological, anatomical and physiological responses of plants to water	Regularly all Week in Batch	19+19+19=57	4+4=8	Gandhi Jayanti, Cleanliness Program	Using ICT and chalk board
November	P-II U-II	Systematic position, occurrence, Morphology, anatomy, & Reproductive structures of Psilotum, Lycopodium, Selaginella, Equisetum & Marsilea	Plant water Relations:-Physiological Reactions, types of soil water, Mineral nutrition, Physiological reactions of plants.	Population ecology, Growth curves, ecoregions ; ecdas. Biogeographical regions of India. Vegetation types of India : Forests and grasslands.	Regularly all Week in Batch	24+24+24=72	4+4=8	Unity day, Quiz competition	Using ICT and chalk board
December	P-II U-IV	Gymnosperms:- General characteristics, Affinities, Economic importance & Classification, Morphology, Anatomy & Reproduction In Cycas, Pinus & Ephedra.	Cellular Respiration & Photosynthesis	Utilization of Plants Food plants : Rice, wheat, maize, potato, sugarcane, Fibres : Cotton and jute, Vegetable oils : Groundnut, mustard and coconut General account of sources of firewood, timber and bamboos.	Regularly all Week in Batch	20+20+20=60	4+4=8	National Mathematics Day, Field Work	Using ICT and chalk board
January	P-II U-V	PALEOBOTANY:-Geological time Scale, Types of fossils & Fossilization, Rhynia, Study of some fossils Gymnosperms, Lyginopteris	Plant Growth Hormones:- auxin, Gibberelline, cytokinins, Ethylene & Abscisic acid. Physiology of flowering, flower concept, Photoperiodism & Vernalization Seed Dormancy & Germination	Spices : General account, Medicinal plants : General account Beverages : Tea and coffee	Regularly all Week in Batch	24+24+24=72	4+4=8	National Science day	Using ICT and chalk board
February	Revision								
March	Examination		Examination	Examination		24+24+24=72			

Note: (1) Remedial and Tutorial class will be organised according to time table.

(2) Presentation/ Seminar/ Group discussion also take according as per plan.

(3) Co-curricular activities and Extra curricular activities are also organised as per plan.

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Table 1

INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT.-KABIRDHAM
ANNUAL TEACHING PLAN (ACADEMIC SESSION 2018-19)

COURSE: UNDER GRADUATION
 CLASS: B.Sc. Biology
 SUBJECT: - BOTANY

NAME OF FACULTY: - SAVITA PATEL

EXPECTED MONTH	TOPIC DESCRIPTION			Practical Classes	No. of Expected class	Tutorial / Remedial classes	Curricular activities	Extra curricular activities	Teaching Aids
	B.Sc. I	B.Sc. II	B.Sc. III						
July P-I U-I U-II	Viruses :General Characteristics, Types of virus Multiplication of virus Economic importance General account of Viroids, Virusoids & Prions. Bacteria: characters & structure, Gram Positive & negative bacteria Reproduction in bacteria,economic importance	Characteristics of seed plants ; evolution of the seed habit fossil and living seed plants, General features of gymnosperms and their classification ; evolution and diversity of gymnosperms ; geological time scale, fossilization and fossil gymnosperms. Morphology of vegetative and reproductive parts ; anatomy of roots, stem and leaf, reproduction and life cycle of Pinus, Cycas and Ephedra	Plant-water relations ; Importance of water to plant life ; physical properties of water, diffusion and osmosis; absorption, transport of water and transpiration ; physiology of stomata,Mineral nutrition ;	Regularly all Week in Batch format	23+23+23 =69	Plantation in campus,	Cleanliness Program		
August P-I U-II U-IV	Fungi-Habit,structure, Nutrition, reproduction Heterothallism & parasexuality,Classification& life cycles of fungi genera,Algae:-General characteristics,thallus organization,Gaidukov phenomena,life Cycle of Alage Genera	Angiosperms : origin and evolution, some examples of primitive angiosperms Angiosperms Botanical nomenclature Principles and rules. Classification of angiosperms ; salient features of the systems proposed by Bentham and Hooker and Engler and Prati Major contributions of cytology, phytochemistry and taximetrics to taxonomy, adaptations to water stress, senescence and abscission& The root system	Transport of organic substances , enzymology photosynthesis,Cellular Respiration Nitrogen and lipid metabolism .Growth and development ; plant movements plant hormones	Regularly all Week in Batch format	24+24+24 =72	Independence day, Program	Soft Skill and chalk board	PPT,Using ICT and chalk board	

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September	P-I U-V	Lichens:-General Account types structure, nutrition reproduction & economic importance. Mycorrhizal structure & importance. Blue Green sludge in nitrogen economy of soil & reclamation of wasteland. Mushroom Biotechnology	Diversity of flowering plants : General account of the families Ranunculaceae, Brassicaceae, Malvaceae, Rutaceae, Fabaceae, Apaceae, Acanthaceae, Apocynaceae, Asclepiadaceae, Solanaceae, Lamiaceae, Chenopodiaceae, Euphorbiaceae, Liliaceae and Poaceae.	Genetic engineering, basic aspects of plant tissue culture Agrobacterium ; vectors for gene delivery and marker genes ; salient achievements in crop biotechnology.	Regularly all Week in Batch format	22+22+22 =66	4+4=8	National hindu day,	Carrier o	Using ICT and chalk board
October	P-II U-I U-II	Eryophyta:-General Characteristics, affinities thallus ,Ecological importanceSystematic positionMorphological & Economic Importance& morphological, anatomical & reproductive structures of following genera. Stellar system, in Pteridophytes, charactersapospory and apogamy heterospory & seed	The basic body plan of a flowering plant, convergence of evolution of tree habit in gymnosperms, monocotyledons and dicotyledons, trees. The shoot histological organization, vascularization of primary shoot in monocotyledons and dicotyledons branching pattern canopy architecture, cambium and its functions, formation of secondary xylem, a general account of wood structure in relation to conduction of water and minerals ; characteristic.	Plants and environment & Morphological, anatomical and physiological responses of plants to water	Regularly all Week in Batch format	19+19+19 =57	4+4=8	Ghandhi Jayanti, Cleaness Program me	Using ICT and chalk board	
November	P-II U-III	Systematic position,occurrence,Morphology ,anatomy, & Reproductive structures of Psilotum,Lycopodium, Selaginella,Equisetum & Marsellia	Plant Water Relations:-Physiological Reactions, types of soil water Mineral nutrition,Physiological reactions of plants.	Population ecology : Growth curves ; ecotypes ; ecads. Biogeographical regions of India. Vegetation types of India : Forests and grasslands.	Regularly all Week in Batch format	24+24+24 =72	4+4=8	Unity day, Quiz Competition	Using ICT and chalk board	

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December	P-II U-I V	Gymnosperms:- General characteristics, Affinities, Economic importance & Classification, Morphology, Anatomy & Reproduction In Cycas, Pinus & Ephedra.	Flower : a modified shoot ; structure, development and varieties of flower, functions, structure of anther and pistil, the male and female gametophytes ; types of pollination ; attractions and rewards for pollinators ; pollen-pistil interaction, self incompatibility, double fertilization, formation of seed-endosperm and embryo ; fruit development and maturation.	Utilization of Plants Food Plants : Rice, wheat, maize, potato, sugarcane, Fibres : Cotton and jute. Vegetable oils, Groundnut, mustard and coconut. General account of sources of firewood, timber and bamboos.	Regularity all Week in Batch format							Using ICT and chalk board
January	P-II U-I V	PALEOBOTANY:-Geological time Scale, Types of fossils & Fossilization, Rhynia , Study of some fossils Gymnosperms, Lycopodiopsid	Flower : a modified shoot ; structure, development and varieties of flower, functions, structure of anther and pistil, the male and female gametophytes ; types of pollination ; attractions and rewards for pollinators ; pollen-pistil interaction, self incompatibility, double fertilization, formation of seed-endosperm and embryo ; fruit development and maturation. Significance of seed : suspended animation, ecological adaptation ; unit of genetic recombination and	Spices : General account Medicinal plants : General account Beverages : Tea and coffee	Regularity all Week in Batch format							
February	Revision											
March	Examination											

Note: (1) Remedial and Tutorial class will be organised according to time table.

(2) Presentation/ Seminar/ Group discussion also take according as per plan.

(3) Co-curricular activities and Extra curricular activities are also organised as per plan.

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INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT.-KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2019-20)

COURSE: UNDER GRADUATION SUBJECT: - BOTANY

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EXPERIENCE MONTH AND UNIT	TOPIC DESCRIPTION	CLASSIFICATION OF VIRUSES											
		GENERAL		BENTHAM & HOOKER'S		PLANT-WATER RELATIONS;		IMPORATNCE OF WATER TO PLANT LIFE;		PHYSICAL PROPERTIES OF PLANTS; TYPICALITY; CBN SYSTEM OF SUBSTANCES; ENZYMOLOGY			
JULY	P-1-U-I	VIRUSES: GENERAL		CLASSIFICATION, TYPES OF VIRUS		CLASSIFICATION, NOMENCLATURE		SYSTEM OF VIRUS		MULTIPLICATION OF VIRUS		IMPORATNCE OF WATER TO PLANT LIFE;	
AUGUST	P-1-U-III	FUNGAL-THALLOSTRUCTURE, NUTRITION, REPRODUCTION HETEROHALLISM & NUTRITION		ECONOMIC IMPORTANCE OF VIRUS		IMPORTANCE OF WATER TO PLANT LIFE;		PLANTS; TYPICALITY; CBN SYSTEM OF SUBSTANCES; ENZYMOLOGY		NAME, FAMILY, USED ACCOUNT OF PLANTS; PHYSICAL PROPERTIES OF PLANTS; TYPICALITY; CBN SYSTEM OF SUBSTANCES; ENZYMOLOGY		IMPORTANCE OF WATER TO PLANT LIFE;	
SEPTEMBER	P-1-U-V	LICHENES: GENERAL ACCOUNT, TYPES		GENETIC AND HABITUAL, BASIC ASPECTS OF PLANT LICHEN		GENETIC AND HABITUAL, BASIC ASPECTS OF PLANT LICHEN		NATIONAL CARRIER, GUIDANCE		EMBRYOLOGY, SPOROGONIA, GAMET		MYCOPLASMA - STRUCTURE & COMPARABILITY; FERILIZATION, ENDOSP	
OCTOBER	P-1-U-I	BRYOPHYTA-GENERAL		INTRODUCTORY & SCOPE OF PLANTS AND ENVIRONMENT		INTRODUCTORY & SCOPE OF PLANTS AND ENVIRONMENT		CLEANING CHANDHI, PROGRAM		ECOLOGY, ENVIRONMENT, SYSTEMATIC		CHARACTERISTICS, AFFILIATION (THALIUE)	
NOVEMBER	P-1-U-III	SYSTEMATIC		PLANT WATER RELATIONS;		POPULATION ECOLOGY; GROWTH CURVES; ECOYPES; ECADS, PLANTS; RICE, WHEAT, MILLET, POTATO, BUGERCANE, FILBRES;		UTILIZATION OF PLANTS FOR FOOD		PHOTOAGNATHUS		STRUCTURE OF PLANTS; ECONOMIC IMPORTANCE & MORPHOLOGY, ANATO.	
DECEMBER	P-1-U-VI	GYMNOSPERMS: GENERAL		CELLULAR REPRODUCTION & DEVELOPMENT		CELLULAR REPRODUCTION & DEVELOPMENT		NATIONAL FIELD WORK		CLASIFICATIION, MORPHOLOGY, ANATO.		ONLINE/ICT SING CHALK BOARD	
January	P-1-U-I	BIOLOGY		STRUCTURE OF PLANTS		STRUCTURE OF PLANTS		NATIONAL FIELD WORK		CLASIFICATIION, MORPHOLOGY, ANATO.		ONLINE/ICT SING CHALK BOARD	
February	P-1-U-III	BOTANY		STRUCTURE OF PLANTS		STRUCTURE OF PLANTS		NATIONAL FIELD WORK		CLASIFICATIION, MORPHOLOGY, ANATO.		ONLINE/ICT SING CHALK BOARD	
March	P-1-U-V	BOTANY		STRUCTURE OF PLANTS		STRUCTURE OF PLANTS		NATIONAL FIELD WORK		CLASIFICATIION, MORPHOLOGY, ANATO.		ONLINE/ICT SING CHALK BOARD	
April	P-1-U-I	BOTANY		STRUCTURE OF PLANTS		STRUCTURE OF PLANTS		NATIONAL FIELD WORK		CLASIFICATIION, MORPHOLOGY, ANATO.		ONLINE/ICT SING CHALK BOARD	
May	P-1-U-III	BOTANY		STRUCTURE OF PLANTS		STRUCTURE OF PLANTS		NATIONAL FIELD WORK		CLASIFICATIION, MORPHOLOGY, ANATO.		ONLINE/ICT SING CHALK BOARD	
June	P-1-U-V	BOTANY		STRUCTURE OF PLANTS		STRUCTURE OF PLANTS		NATIONAL FIELD WORK		CLASIFICATIION, MORPHOLOGY, ANATO.		ONLINE/ICT SING CHALK BOARD	
July	P-1-U-I	VIRUSES: GENERAL		CLASSIFICATION, TYPES OF VIRUS		CLASSIFICATION, NOMENCLATURE		SYSTEM OF VIRUS		MULTIPLICATION OF VIRUS		IMPORATNCE OF WATER TO PLANT LIFE;	
August	P-1-U-III	FUNGAL-THALLOSTRUCTURE, NUTRITION, REPRODUCTION HETEROHALLISM & NUTRITION		ECONOMIC IMPORTANCE OF VIRUS		IMPOARTNCE OF WATER TO PLANT LIFE;		PLANTS; TYPICALITY; CBN SYSTEM OF SUBSTANCES; ENZYMOLOGY		NAME, FAMILY, USED ACCOUNT OF PLANTS; PHYSICAL PROPERTIES OF PLANTS; TYPICALITY; CBN SYSTEM OF SUBSTANCES; ENZYMOLOGY		IMPOARTNCE OF WATER TO PLANT LIFE;	
September	P-1-U-V	LICHENES: GENERAL		GENETIC AND HABITUAL, BASIC ASPECTS OF PLANT LICHEN		GENETIC AND HABITUAL, BASIC ASPECTS OF PLANT LICHEN		NATIONAL CARRIER, GUIDANCE		EMBRYOLOGY, SPOROGONIA, GAMET		MYCOPLASMA - STRUCTURE & COMPARABILITY; FERILIZATION, ENDOSP	
October	P-1-U-I	BRYOPHYTA-GENERAL		INTRODUCTORY & SCOPE OF PLANTS AND ENVIRONMENT		INTRODUCTORY & SCOPE OF PLANTS AND ENVIRONMENT		CLEANING CHANDHI, PROGRAM		ECOLOGY, ENVIRONMENT, SYSTEMATIC		CHARACTERISTICS, AFFILIATION (THALIUE)	
November	P-1-U-III	SYSTEMATIC		PLANT WATER RELATIONS;		POPULATION ECOLOGY; GROWTH		UTILIZATION OF PLANTS FOR FOOD		PHOTOAGNATHUS		STRUCTURE OF PLANTS; ECONOMIC IMPORTANCE & MORPHOLOGY	
December	P-1-U-VI	GYMNOSPERMS: GENERAL		CELLULAR REPRODUCTION & DEVELOPMENT		CELLULAR REPRODUCTION & DEVELOPMENT		NATIONAL FIELD WORK		CLASIFICATIION, MORPHOLOGY, ANATO.		ONLINE/ICT SING CHALK BOARD	

January	P-II U-V	PALEOBOTANY:-Geological time Scale, Types of fossils & Fossilization, <i>Rhynia</i> , Study of some fossils	Plant Growth Hormones:- auxin, Gibberelline, cytokinin, Ethylene & Abscisic acid. Physiology of flowering, florigen concept	Spices : General account. Medicinal plants ■ General account Beverages : Tea and coffee	online mode	24+24+2 4=72	4+4=8	National Science day	Essay writing	Online/U sing ICT and chalk board
February	Revisio n					24+24+24=72				
March		Examination	Examination	Examination						

Note: (1) Remideal and Tutorial class will be organised according to time table.

(2) Presentation/ Seminar/ Group discussion also take according as per plan.

(3) Co-curricular activities and Extra curricular activities are also organised as per plan.

Practical classes acc. to time table


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Table 1

INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT.-KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2020-21)

COURSE: UNDER GRADUATION.

CLASS: B.Sc Biology

SUBJECT :- BOTANY

NAME OF FACULTY:- Deepak kumar soni, Mamta kulmitra

EXPECTED MONTH	PAPER AND UNIT	TOPIC DESCRIPTION			Practical Classes	No. of Expected class	Tutorial / Remedial classes	Co-curricular activities	Extra curricular activities	Teaching Aids
		B.Sc. I	B.Sc. II	B.Sc. III						
July	P-I U-I U-II	Viruses: General Characteristics, Types & importance. Multiplication of virus. Economic importance. General account of Virions, Virusoids & Prions. Bacteria: characters & structure, Gram Positive & negative bacteria. Reproduction in bacteria, economic importance	Bentham & Hooker's System, ICBN System of plants. Typification, Preservation Techniques, Important Botanical Garden & Herbaria of plants. & Systematic position. Distinguishing Features & Economic Importance of flowering Plants.	Bentham & Hooker's System, ICBN System of plants. Typification, Preservation Techniques, Important Botanical Garden & Herbaria of plants. & Systematic position. Distinguishing Features & Economic Importance of flowering Plants.	online & offline Both mode Regularly	0+15+22=37	4+4=8	National Hindi day, Carrier Guidance	Online/Using ICT and chalk board	Online/Using ICT and chalk board
August	P-I U-III U-IV	Fungi:-Habit, structure, Nutrition, reproduction. Heterothallism & parasexuality. Classification & life cycles of fungi. Algae:-General characteristics, thallus organization, Gaidukov phenomena, life Cycle of Algae. Genera	Economic Botany :-Botanical name, Family, used part & uses of following economically. Ethnobotanical Plants of C.G. Plant anomalies	Principles of plant pathology: general symptoms, disease resistance & Control; Plant Quarantine Epidemiology & Etiology of plant disease, introduction of pollution, Biomagnification, autophication & Conservation Strategies.	online & offline Both mode Regularly	23+23+23=69	4+4=8	Independence day, Soft Skill Programme	Online/Using ICT and chalk board	Online/Using ICT and chalk board
September	P-I U-V	Lichens: General Account, types, structure, nutrition, reproduction & economic importance. Mycoplasma:-structure & Importance. Blue Green algae in nitrogen economy of soil & reclamation of usherland .Mushroom Biotechnology	Embryology, Sporogenesis, gametogenesis, Pollination, self-compatibility, Fertilization, Endosperm, polyembryony, apomixis & Parthenocarpy.	Elementary Biostatistics, measures of central tendency mean ,median mode, Measures of dispersal- stranded deviation	online & offline Both mode Regularly	21+21+23=63	4+4=8	National Hindi day, Carrier Guidance	Online/Using ICT and chalk board	Online/Using ICT and chalk board
October	P-II U-I U-II	Bryophytes:-General Characteristics, affinities, thallus, Ecological importance, Systematic Position, Morphological & Economical importance & morphological, anatomical & reproductive structures of algal, genera. Stellar system, in Plenidophytes characters, sporophyty and apogamy, heterospory & seed habit, telome theory, Azolla	Introduction & Scope of Ecology, Environmental factors, soil profile, Morphological & Anatomical Anamolies	Cell & Cell organelles, Chromosomes, cell division, mendeis law, Linkage & Crossing Over, Chromosomal Aberration, Gene concept, Structure of DNA & RNA, gene expression & Gene Expression.	online & offline Both mode Regularly	4+4=8	Gandhi Jayanti, Cleanliness Programme	Cleanliness Programme	Online/Using ICT and chalk board	Online/Using ICT and chalk board

November	P-II U-IIII	Systematic position, occurrence, Morphology, anatomy, & Reproductive structures of Psilotum, Lycopodium, Selaginella, Equisetum & Marsilea	Plant water Relations:- Physiological Reactions, types of soil water Mineral nutrition, Physiological reactions of plants.	Recombinant DNA Technology, PCR, Application of Biotechnology, Monoclonal Antibodies, DNA Fingerprinting	online & offline Both mode Regularly	20+20+20=60	4+4=8	Unity day, Quiz Competition	Online/Using ICT and chalk board
December	P-II U-IV	Gymnosperms:- General characteristics Affinities, Economic importance & Classification, Morphology, Anatomy & Reproduction In Cycas, Pinus & Ephedra.	Cellular Respiration & Photosynthesis	Protein Structure & Composition, Carbohydrate Structure & Also Structure of fats	online & offline Both mode Regularly	19+19+19=57	4+4=8	Quiz Competition	Online/Using ICT and chalk board
January	P-II U-V	PALEOBOTANY:-Geological time Scale, Types of fossils & Fossilization, Rhynia , Study of some fossils Gymnosperms, Lygophytes]	Plant Growth Hormones:- auxin, Gibberelline, cytokinins, Ethylene & Abscisic acid Physiology of flowering, florigen concept Photoperiodism & Vernalization Seed Dormancy & Germination Plant movement	Enzymes:- Nomenclature & Classification, theories of Enzyme Action, Enzymes Kinetics (Michaelis Menten Equation) Factors affecting Enzyme activity	online & offline Both mode Regularly	24+24+24=72	4+4=8	National mathematics day Field Work	Online/Using ICT and chalk board
February	Revision					4+4=8	Science day	Essay writing competition	Online/Using ICT and chalk board
March		Examination	Examination			24+24+24=72	4+4=8		

Note: (1) Remedial and Tutorial class will be organised according to time table.

2) Presentation/ Seminar/ Group discussion also take according as per plan.

3) Co-curricular activities and Extra curricular activities are also organised as per plan.


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INDIRA GANDHI GOVT COLLEGE PANDARIA DISTT:-KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2021-22)

SUBJECT: ROTARY

CLASS: B. sc. Eichay

EXPECTED MONTH	PAPER AND UNIT	TOPIC DESCRIPTION			Practical Classes	No of Expected class Periods	Tutorial / Remedial classes	Co-curricular activities	Extra Curricular activities	Teaching aids
		B.Sc. I	B.Sc. II	B.Sc. II						
July 20-21, 20-21		Virus General Characteristics, Types of virus Multiplication of virus [Economic importance] General account of Viruses, Virions & Proteins Bacteriophages & Prions Structure, Clear Positive & negative bacteria Reproduction in bacteria Economic Importance	(Inhibition & Looking Classification Non-motile system ICIN System of plants, Typification Preservation Techniques Important Bacterial Order & Herbaria of plants & Systematic position Distinguishing features & Economic importance of flowering plants	Unit testing, Principles & Application of Analytical instruments Plant Tissue Culture Techniques Micropropagation Formation, Variation Analytical techniques microscopy	Regularly all Week in batch format Offline mode	20-20-22-62				
August 21-22, 20-21		Fungi-Habit, Structure, Nutrition, reproduction Heterothallism & parasexuality, Classification & life cycles of fungi Penicillium Algae -General characteristics, Nutra. organization, Guidukov phenomena, life Cycle of Algae General	Economic Utility, Industrial uses of following economically, Ethnobotanical Plants of C. O. Plant anatomy, tissues, Anatomical anomalies	Principles of plant pathology, General symptoms disease resistance & control, Plant Quarantine Epidemiology & Ecology of plant disease, Introduction of pollution, Biomagnification, Dissemination, Conservation Strategies.	Regularly all Week in batch format Offline mode	21-21-21-63	1	Plantation camps, Class projects		
September P-1 U-U'	Lichens -General Account, types structure, nutrition reproduction & economic importance, Mycoplasma-, structure & importance Blue Green algae in nitrogen economy of soil & remediation of wasteland Mushroom Biotechnology	Embryology, Sporogenesis, Gametogenesis, Pollination, self compatibility, fertilization, Endosperm, polyembryony, apomixis & Parthenocarpy.	Elementary Biostatistical measures of central tendency mean median mode Measures of dispersion, strand deviation	Regularly all Week in batch format Offline mode	22-22-22-68	1	Independence day, Smt Smt Programming	Online PPT Using ICT and chalk board		
					4+4=8	National hind day, Carrier Guidance	Online Using ICT and chalk board			

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October	P-II U-I	Bryozoa - General Characteristics, Structure of Thallus, Economic importance, Position Micrograph, Economic importance, morphological importance, reproductive structures of following genera: Ctenostoma, Fibularia, characteristics of colony and sporangium, microscopy, Early hair whoring.	Introduction & Scope of Ecology, Environment, factors, soil profile, Morphological & anatomical features, Economic importance, reproductive structures of following genera: Ctenostoma, Fibularia, characteristics of colony and sporangium, microscopy, Early hair whoring.	Cost & Cost organisms, Chromosomes, cell division, Mendel's law, Linkage & Crossing Over, Chromosomal aberration, Gene control, Structure of DNA, RNA, gene expression & Curing Expression.	Practical 1st week in August, formal, other mode	Practical 1st week in August, formal, other mode	Chromosomes, Progress
November	P-II U-II	Gymnosperms - General characters, distribution, Morphology, anatomy & Classification, Morphology, Anatomy & Reproduction in Cycas, Pinus & Ephedra.	Plant water Relations, Physiological Reactions, types of soil water, Mineral nutrition, Physiological reactions of plants.	Reservoirs DNA, Technology-PCR, Application of Biotechnology, Numerical, Antibodies, DNA, Fingerprinting	Practically all week in August, formal, other mode	Practically all week in August, formal, other mode	Practically all week in August, formal, other mode
December	P-II U-IV	Gymnosperms - General characters, Amines, Economic importance, Classification, Morphology, Anatomy & Reproduction in Cycas, Pinus & Ephedra.	Photosynthesis	Protein Structure, Composition, Carbohydrate Structures & Amino Acids	4+4=8	Very easy.	Quiz Completion
January	P-II U-V	PALEOBOTANY, Geological time Scale, Types of fossils & fossilization, Rhythms, Study of cones, fossils, Gymnosperms Lycopodiophytina, Vernalization Seed Dormancy & Germination	Plant Growth Hormones, auxin, Gibberellins, cytokinins, Ethylene & Abscisic acid Physiology of flowering, hibernation, photoperiodism & vernalization seed dormancy & germination	Enzymes - Heterogeneity & Classification, Theories of Enzyme Action, Enzymes Kinetics (Michaelis-Menten Equation), Factors affecting Enzyme Activity	4+4=8	Mathematics day	Orientierung KST am Freitag
February	Practical			Practically all week in August, formal, other mode	24+24+24=72	Field Work	Orientierung KST am Freitag
March	Practical	Examination	Examination	4+4=8	National Science day	Essay writing competition	Orientierung KST am Freitag

Note: (1) Remedial and Tutorial class will be organised according to time table.

(2) Presentation/ Seminar/ Group discussion also takes according as per plan.

(3) Co-curricular activities and Extra curricular activities are also organised as per plan.

PRINCIPAL
College, Pandaria
(C.G.)