

Table 1

INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT.-KABIRDHAM										
ANNUAL TEACHING PLAN (ACADEMIC SESSION 2022-23)										
NAME OF FACULTY:-CHITRASEN THAKUR, BHANJAN SAW										
SUBJECT :- BOTANY										
CLASS: B.sc Biology										
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 Virioids, Virioids & 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 Importance of flowering Plants.	Structure, Principles & Application of Analytical Instrumentations Plant tissue culture Techniques Micropropagation Somaclonal Variation Analytical techniques microscopy	Regularly all Week In Batch format			Plantation in campus,	cleanness programme	chalk and board
August	P-I U-III 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 Algae Genera	Economic Botany :- Botanical name, Family, used part & uses of following economically. Ethnobotanical Plants of C.G. Plant anatomy, tissues & Anatomical anomalies	Principles of plant pathology, general symptoms, disease resistance & Control, Plant Quarantine Epidemiology & Etiology of plant disease Introduction of pollution, Biomagnification, eutrophication & Conservation Strategies.	Regularly all Week In Batch format	21+21+21=		Independence day,	soft skill programme	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 usharland. Mushroom Biotechnology	Embryology, Sporogenesis, gametogenesis, Pollination, self-compatibility, Fertilization, Endosperm, polyembryony, apomixis & Parthenocarp.	Elementary Biostatistics, measures of central tendency mean, median mode, Measures of dispersal-stranded deviation	Regularly all Week In Batch format	22+22+22=66	4+4=8	National hindi day,	career guidance	Using ICT and chalk board
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 apospory and epogamy, heterospory & seed habit telome	Introduction & Scope of Ecology, Environmental factors, soil profile Morphological & Anatomical Anomalies	Cell & Cell organelles, Chromosomes cell division mende's law, Linkage & Crossing Over Chromosomal Aberration, Gene concept Structure of DNA & RNA, gene expression & Gene Expression.	Regularly all Week In Batch format	25+25+25=75	4+4=8	Ghandhi Jayanti,	cleanness programme	Using ICT and chalk board
November	P-II U-III	Systematic position, occurrence, Morphology anatomy & Reproductive structures of <i>Psilotum</i> , <i>Lycopodium</i> , <i>Selaginella</i> , <i>Equisetum</i> & <i>Marselia</i>	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	Regularly all Week In Batch format	19+19+19=57	4+4=8	Unity day,	Quiz completion	Using ICT and chalk board
December	P-II U-IV	Gymnosperms:- General characteristics Affinities, Economic importance & Classification, Morphology, Anatomy & Reproduction in <i>Cycas</i> , <i>Pinus</i> & <i>Ephedra</i> .	Cellular Respiration & Photosynthesis	Protein Structure & Composition, Carbohydrate Structure & Also Structure of fats	Regularly all Week In Batch format	22+22+22=66	4+4=8	National mathematics day	field work	Using ICT and chalk board

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January	P-II U-V	PALEOBOTANY:-Geological time Scale, Types of fossils & Fossilization, Rhynia, Study of some fossils Gymnosperms, Lycopods	Plant Growth Hormones:- auxin, Gibberellin, cytokinin, Ethylene & Abscisic acid, Physiology of flowering, photoperiodism, vernalization, seed dormancy & germination, plant movement	Enzymes:- Nomenclature & Classification, theories of Enzyme Action, Enzyme Kinetics (Michaelis Menten Equation) Factors affecting Enzyme activity	Regularly all Week in Ditch format	24*24+24*72	4+4=8	Science day	essay writing competition	Using ICT and chalk board
February	Revision									
March		Examination	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.

Sharma