Name of the Teacher- BHUPENDRA

Class – Botany hons. ^{2ND} sem.

Subject- Plant Development and Anatomy (BOT203)

Month		
lanuary 2024	Topics to be covered	Assignments/Test
Junuar 2024	Unit 1 Plant Sporophyte: A bipolar structure; Onset	
	of polarity; Cytodifferentiation and organogenesis	
	during embryonic development; physiological and	
2	genetic aspects. Introduction and scope of Plant	
5 h.	Anatomy: Applications in systematics, forensics	а. — ² Г
	and pharmacognosy. Tissues and Cell Walls:	
	Classification and structure of tissues;	
	cytodifferentiation of tracheary elements and sieve	
	elements; pits and plasmodesmata; wall ingrowths	
	and transfer cells; adcrustation and incrustation:	
	ergastic substances.	
February 2024	Unit 2 Leaf: Development of leaf, histology of C3	ClassTest
	and C4 leaves; stomatal complex and diversity of	
	stomata, scale leaves. Stem: Organization of shoot	
	apex (apical cell theory, histogen theory, tunica	с. Т
\sim	corpus theory, plastochrone); shoot chimeras;	
	types of vascular bundles; primary phloem and	
	primary xylem; terminal, lateral and adventitious	
	buds; primary thickening meristem. Root:	
ж.	Organization of root apex (apical cell theory.	
	histogen theory, korper-kappe theory); guiescent	
	centre; root cap; primary root tissue: rhizodermis.	-
	cortex, endodermis, exodermis, metacutinization.	
	lateral root apices; secondary growth in roots.	
March 2024	Vascular Cambium Structure and function; concept	Assignment
£	of cambial zone; cambial derivatives; seasonal	
	activity of cambium and unusual cambial activity.	
	Secondary Growth: Axially and radially oriented	
	xylary and phloic elements, cyclic aspects, juvenile	
	adult and reaction woods; sap wood and heart	
	wood; Phloem as a dynamic tissue, Periderm :	
10	Development and composition of periderm.	
	rhytidome and lenticels.	
April 2024	Adaptive and Protective Systems Enidermal tissue	Class test
, p	system (cuticle, epicuticular waxes, trichomes):	
	Anatomical adaptations in stems, leaves and roots	5 J
	of xerophytes, hydrophytes and halonhytes	
	Secretory and Excretory System Hydathodes, salt	
	plands, nectaries; cavities lithocysts and latisition	
	Brance, neoranico, carrico, innocysis and laucilers	

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Name of the Teacher-BHUPENDRA

Class - B.Sc. BOTANY Hons. 4th sem

Subject-Cell Biology-II (BOT401)

		Assignments/Test
Month	Topics to be covered	ClassTest
January 2024	The Plasma Membrane Structure; Transport of small molecules, Endocytosis Cell Wall, the Extracellular Matrix and Cell Interactions Bacterial and Eukaryotic Cell Wall; the extracellular matrix and cell matrix	
February 2024	interactions; cell-cell Interactions Cell Signaling Signaling molecules and their receptor; functions of cell surface receptors; Intracellular signal transduction pathway; signaling networks. The Cell Cycle ;Eukaryotic Cell Cycle, Regulation of Cell cycle progression, Events of Mitotic Phase, Meiosis	
	and Fertilization	Assignment
March 2024	Stem Cells and Maintenance of adult tissues,	
	Embryonic Stem Cells and Therapeutic closing	
April 2024	. Cancer Development and Causes of Cancer, Tumor Viruses, Oncogenes, Tumor Suppressor genes, Cancer Treatment- molecular approach	Class Test

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Lesson Plan(2023-24/EVEN Semester)

Name of the Teacher-BHUPENDRA

Class -B.Sc. BOTANY Hons. 6th sem

Subject-Plant Metabolism and Biochemistary (BOT601)

Month	Topics to be covered	
January 2024	Unit 1: Enzymes :Historical background, classification, nomenclature and importance of enzymes; role of enzymes as catalysts; physiochemical and biological properties; concept of holoenzymes; coenzyme; apoenzyme and prosthetic groups; mechanism and kinetics of enzyme action; enzyme inhibitors; isoenzymes; allosteric enzymes; industrial aspects of enzymology.	Assignments/Test
February 2024	Unit 2: Carbon Assimilation: Role of chlorophylis and accessory pigments; antennae molecules and active center molecules; evidences for two photosystems; reduction of NADP; photophosphorylation; reduction of CO2 into glucose; Benson and Calvin cycle; Hatch and Slack pathway; Crassulacean acid metabolism; energetics of CO2 reduction; factors affecting CO2 reduction. , Carbon Oxidation: Glycolysis, anaerobic conversion of pyruvate into ethanol or lactate, energy balance, reversibility and inhibition of glycolysis, Pasteur effect, oxidative decarboxylation of pyruvate into acetyl CoA, TCA cycle, oxidative phosphorylation, oxidation of RuBP (photorespiration), factors affecting oxidative processes, regulation of TCA cycle, role of glyoxalate cycle	Class Test
March 2024	Unit 3: Carbohydrate Metabolism: Structure, properties and importance of mono-, di- and polysaccharides; Synthesis of di- (sucrose) and polysaccharides (starch and cellulose). Nitrogen and Protein Metabolism :Biological nitrogen fixation and nitrogen cycle, Catabolism of amino acids, ammonia assimilation, transamination, deanimation, structure and general properties of amino acids and proteins (protein folding). Lipid Metabolism: Structure, properties, classification and functional significance of fatty acids, triglycerides and steroids; Synthesis and breakdown, formation of glycerides; oxidation of fatty acids, beta oxidation; energy balance.	Assignment
April 2024	Unit 4: Intermediary Metabolism: Interrelationship of carbohydrates, lipids and protein metabolism.) Regulation of Metabolism :Nature of integrated metabolism, role of acety CoA, control at the level of transcription and Translation, control of enzyme action. Secondary Metabolites and Plant Defense :Introduction to alkaloids, phenolics, plant terpene phytoalexins, sesquiterpenes and sterols.	Class test of s,

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Lesson Plan for Even Session (2023-24)

Name: NISHA

Class: BSC Medical 2nd Sem

Lesson Plan: DIVERSITY OF ARCHEGONIATES

January-2024

Bryophyta- General characters, classification (upto classes), alternation of generations, evolution of sporophytes and economic importance

February-2024

Bryophyta: Structure and reproduction (excluding development) of Marchantia (Hepaticopsida), Anthoceros (Anthocerotopsida) and Funaria (Bryopsida)

March-2024

Pteridophyta- General characters, classification (upto classes): Structure and reproduction (excluding development) of *Rhynia* (Psilopsida), *Selaginella* (Lycopsida), *Equisetum* (Sphenopsida) Revision and class test

April-2024

Pteris (Pteropsida) Alternation of generations, heterospory, Apospory, apogamy and economic importance; General account of stellar evolution, Revision and class test

May-2024

Name: NISHA

Class: BSC Medical 2nd Sem

Lesson Plan: PAPER - II GENETICS

January-2024

Genetic Material: DNA - the genetic material, DNA structure and replication, DNA- Protein interaction, The Nucleosome Model, Genetic Code, Satellite and Repetitive DNA.

February-2024

Genetic Inheritance: Mendelism: Laws of Segregation and Independent Assortment; Linkage Analysis; Allelic and non-allelic interactions.

March-2024

Extra-nuclear Inheritance: Presence and function of Mitochondrial and Plastid DNA; Plasmids. **Genetic Variations:** Mutations - spontaneous and induced; Transposable genetic elements; DNA damage and repair,

April -2020

Modern concept of gene; RNA; Ribosomes; Transfer of genetic information – transcription, Translation; Structure of proteins; Regulation of gene expression in prokaryotes and eukaryotes Revision and test

May-2024

Name: NISHA

Class: BSC Medical 6th Sem

Lesson Plan: Biochemistry and PlantBiotechnology

January-2024

Basics of Enzymology: Discovery and nomenclature; characteristics of enzymes; concept of holoenzyme, apoenzyme, coenzyme and co-factors; regulation of enzyme activity; mechanism of action.

February-2024

Respiration: ATP – the biological energy currency; aerobic and anaerobic respiration; Krebs cycle; electron transport mechanism (chemiosmotic theory); redox -potential; oxidative phosphorylation; pentose phosphate pathway

March-2024

Lipid metabolism: Structure and functions of lipids; fatty acid biosynthesis; β -oxidation; saturated and unsaturated fatty acids; storage and mobilization of fatty acids. Nitrogen metabolism: Biology of nitrogen fixation; importance of nitrate reductase and its regulation; ammonium assimilation. Revisions and test

<u>April -2024</u>

Genetic engineering and Biotechnology: Tools and techniques of recombinant DNA technology; cloning vectors; genomic and cDNA library; transposable elements; aspects of plant tissue culture; cellular totipotency, differentiation and morphogenesis; biology of *Agrobacterium*; vectors for gene delivery and marker genes. Revisions and test

May-2024

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Name: Dr. Archana Singh

Class: BSc Botany Hons 2nd Sem

Lesson Plan: Diversity of Gymnosperms

Jan 2024

2

General account of fossils, techniques used to study fossil. Evolution of gymnosperms. Classification and distribution of Gymnosperms in India.Contribution of Prof. Birbal Sahni

Feb -2024

2

A

Characteristic features and life cycle patterns of Gymnosperms. Patterns of variation in morphology of gymnosperms, Ecological and Economic importance of Gymnosperms. Assignment.

March-2024

Unit 3 Morphology and anatomy of Cycas, Pinus, Ephedra, Gnetum. Reproduction in Cycas, Pinus, Ephedra, Gnetum, (developmental stages and EM studies not included). Assignment.

April-2024

Modern methods of propagation of gymnosperms: somatic embryogenesis, haploids and protoplast culture. Test and Revision

Name: Dr. Archana Singh

Class: BSC Medical 4th Sem

Lesson Plan: PAPER-I BIOLOGY AND DIVERSITY OF SEED PLANTS-II

<u>Jan-2024</u>

Taxonomy and Systematics, fundamental components of taxonomy (identification, classification, description, nomenclature and phylogeny), Role of chemotaxonomy, cytotaxonomy and taximetrics in relation to taxonomy, Botanical Nomenclature, principles and rules

<u>Feb -2024</u>

Principle of priority, Keys to identification of plants.

Type concept, taxonomic ranks, Salient features of the systems of classification of angiosperms proposed by Bentham & Hooker and Engler & Prantl, Floral Terms and Types of Inflorescence. Assignment

March-2024

Diversity of Flowering Plants: Diagnostic features and economic importance of the following families: Ranunculaceae, Brassicaceae, Malvaceae, Euphorbiaceae, Rutaceae, Fabaceae, Cucurbitaceae, Apiaceae, Asclepiadaceae, Lamiaceae,

April-2024

Diversity of Flowering Plants: Diagnostic features and economic importance of the families: Solanaceae, Asteraceae, Liliaceae and Poaceae Test and Revision

Name: Dr. Archana Singh

Class: BSC Medical 4th Sem

Lesson Plan: PAPER-II PLANT EMBRYOLOGY

<u>Jan-2024</u>

Flower-a modified shoot, Microsporangium, its wall and dehiscence

mechanism.Microsporogenesis, pollen grains and its structure (pollen wall).

Feb -2024

Pollen germination (microgametogenesis), Male gametophyte, Pollen-pistil interaction; self incompatibility, Pollination: types and agencies, Structure of Megasporangium (ovule), its curvatures; Assignment

March-2024

Megasporogenesis and Megagametogenesis, Female gametophyte (mono, bi and tetrasporic), Double fertilization, Endosperm types and its biological importance. Embryogenesis in Dicot and Monocot; Polyembryony

April-2024

Structure of Dicot and Monocot seed, Fruit types; Dispersal mechanisms in fruits and seeds. Test and Revision

Lesson Plan 2023-24/Even Semestin

Name 2	of teacher !	DA. SHWETA PANDEY	
CLASS		B.Sr. Nedical 2nd Sem.	
Subjee	+ :	Diversity of Aschegoniales	

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Topus

January 2024

Assignment/ Test Bryophyta - General characters classification, alternation of generation evolution of sprophytes & economice importance

Assignmit

structure & Reprodution of Assignment 2 Herchantia, Anthocoros Funaria

Pteridophyter - General Characters classification, alteration of generation economic importance, stellar evolution Test 1

Hareh 2024

April 2024

Planaophyta - Structure & reproduction of Physica, Calaginella, Equisation 2 Plani Pteris

(SHUDEDA PANDEY)

February 2024

Name of	Teacher! Dr. SHWETA PANDEY	
Class	' B. Sc. Bolany Hons. 6th Sem.	
Subject	." Plant Biotechnology	
Monter	Topics	Assign

January 2024

Historical Perspective, MS media Assign Hormone, Totipotency, Embryogeneis Hicropropagation, Tessue culture Applications

Designmut

February 2024

Tools & techniques of Genetic Test 1 engineering, PCR, DNA Sequencing, Genomie Library DNA Fingerprenting, RAPD RFLP

March 2024

Plant transformation Technology Gene transfer, Electoposation Hieroin-Asign -jeetron, Gene-gun, Marker Reporter gened.

April 2024

Pest sesistant flant, Bt.-cotton Herbicide, Transgenie crops. Test edible vaccines, industrial 2 engyme, Application of Plant Structor Pornday Bio technology.

Name of the Teacher –Amita Kumari Class – B.Sc. Pass Course Medical 6th sem Subject- Biochemistry and Plant Biotechnology (6.1)

Month	Table 1	
	Topics to be covered	Assignments/Test
Jan 2024 Feb 2024	Basics of Enzymology: Discovery and nomenclature; characteristics of enzymes; concept of holoenzyme, apoenzyme, coenzyme and co-factors; regulation of enzyme activity; mechanism of action.	Assignment
March 2024	Respiration: ATP – the biological energy currency; aerobic and anaerobic respiration; Krebs cycle; electron transport mechanism (chemiosmotic theory); redox -potential; oxidative phosphorylation; pentose phosphate pathway. Lipid metabolism: Structure and functions of lipids; fatty acid biosynthesis; β -oxidation; saturated and unsaturated fatty acids;	Oral Test
March 2024	storage and mobilization of fatty acids. Nitrogen metabolism: Biology of nitrogen fixation; importance of nitrate reductase and its regulation; ammonium assimilation. Genetic engineering and Biotechnology: Tools and techniques of recombinant DNA technology; cloning vectors; genomic and cDNA library	Assignment
April 2024	transposable elements; aspects of plant tissue culture; cellular totipotency, differentiation and morphogenesis; biology of <i>Agrobacterium</i> ; vectors for gene delivery and marker genes.	Test And Revision

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Name of the Teacher-Amita Kumari

Class – B.Sc. Pass Course Medical 6th sem

Subject- Economic Botany (6.2)

3

Month	Topics to be covered	Assignments/Test
Jan 2024	N.I. Vavilov and his centres of origin of crop plants and basic knowledge of Origin, distribution, botanical description, brief idea of cultivation and economic uses of cereals like rice, wheat and maize.Origin, distribution,botanical description, brief idea of cultivation and economic uses of pulses (gram, arhar and pea), vegetables (potato, tomato and onion).	Assignment
Feb 2024	Origin, distribution, botanical description, brief idea of cultivation and economic usesof Fibers- cotton, jute and flax. Origin, distribution, botanical description, brief idea of cultivation and economic uses of Oils- groundnut, mustard, sunflower and coconut.	Test
March 2024	Origin, distribution, botanical description, brief idea of cultivation and economic usesof Fibers- cotton, jute and flax.Origin, distribution, botanical description, brief idea of cultivation and economic uses of Oils- groundnut, mustard, sunflower and coconut. Beverages- tea and coffee	Assignment
April 2024	Rubber plant - <i>Hevea</i> ; Botanical description, processing and uses of sugarcane plant. Also have general knowledge and sources of timber; energy plantations and bio-fuels.	Test and revision

Name of the Teacher- Amita Kumari

Class – Botany hons. 6th Sem

Subject- Tools and Techniques (BOT-605)

wonth	Topics to be covered	Assignments/Test
Jan 2024	simple microscopy, phase contrast microscopy, florescence and electron microscopy and its type. pH meter and its uses, absorption and emission spectroscopy technique.	
Feb 2024	Instruments, basic principles and usage of absorption fluorimetry, colorimetry, spectrophotometry (visible, UV, infra- red). Instruments, basic principles and usage of Centrifugation, cell fractionation techniques, isolation of sub-cellular organelles,Paper chromatography, thin layer chromatography, column chromatography: silica and gel filtration, affinity and ion exchange chromatography	Assignment
March 2024	, gas chromatography, HPLC. electrophoresis techniques Starch-gel, polyacrylamide gel (native and SDS- PAGE), agrose-gel electrophoresis, immuno electrophoresis, isoelectric focusing, western blotting. Different types of fermenters:principles operating characteristics of fermenters, air lift, continous stirred tank	Oral test
April 2024	fluidized and photofermenter aeration and agitation system, antiform agents, pH, temperature and dissolved oxygen measurements and control,	Test and revision

Name: Anjana Anand Class - B.Sc. Botany Haus, The sens,

LESSON PLAN- PAPER 4 BOT - 504 GENETICS AND GENOMICS-I

<u>January 2024</u>

Introduction to Genetics: Mendel's work on transmission of traits, Genetic Variation, Molecular basis of Genetic Information, Interrelation between the cell structure and the genetics function, Mitosis, Meiosis (explaining Mendel's ratios), Principles of Inheritance, Chromosome theory of inheritance, Laws of Probability, Pedigree analysis Incomplete and codominance,

Multiple alleles, Lethal alleles, Epistasis, Pleiotropy,

Environmental effects on phenotypic expression, sex linked inheritance.

February 2024

Linkage and crossing over, Cytological basis of crossing over, Molecular mechanism of crossing over, Recombination frequency as a measure of linkage intensity, two factor and three factor crosses, Interference and coincidence, Somatic cell genetics – an alternative approach to gene mapping.

March 2024

Chromosomal Mutations: Deletion, Duplication, Inversion, Translocation, Aneuploidy and Polyploidy; Gene mutations: Induced versus Spontaneous mutations, Back versus Suppressor mutations, Molecular basis of Mutations in relation to UV light and chemical mutagens, Detection of mutations: CLB method, Attached X method, DNA repair mechanisms, Sex Determination, Environmental factors determining sex determination, Barr bodies, Dosage compensation.

April 2024

Extrachromosomal Inheritance : Chloroplast mutation/Variegation in Four o' clock plant and *Chlymodomonas*, Mitochondrial mutations in *Neurospora* and yeast, Maternal effects, Infective heredity- Kappa particles in *Paramecium*, Quantitative and multifactor inheritance, Transgressive variations, Heterosis.

May 2024

Lesson plan (2022-23, even Sem.)

N. Call

Name of teacher: Dr. Anjana Anand

- Class: B.sc. Botany Hons 6th sem.

Subject and paper: Reproductive Biology of Anglosperms

		class test on the topics taugh
		2.00 1
Introduction: History and scope, Anther: Structure, ontogeny;		
micro-sporogenesis; callose deposition and its significance,		
Microsematogenetic polleg unlagende b		
female gametophyte –megasporogenesis and	Assignment on any topic of this paper	the tension tough
Pollination and Fertilization: Pollination types and significance:		class test on the topics taugh
development, MGU (male germ unit) structure, NPC system,		
pollen wall proteins;pollen viability, storage and germination;		· · · ·
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caruncle, hypostase, enistase, female gametonhyte		3
-megasporogenesis and		
megagametogenesis: organization and ultra structure of mature embryo sac, pollen-pistil interaction; structure of stigma and style;		class test on the topics taugh
double fertilization. Self		
incompatibility; Basic concepts; methods to overcome sen		
Types, development and functions; endosperm haustoria.	a an	
Classification, development, organization and differentiation of		class test on the topics taugh
embryo- endosperm relationship; physiological and genetical	die lea e angeom grute or	Presentation by students
control. Polyembryony and		
Apointizes. Inforduction, classification		
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priority and its limitation; names of		class test on the topics taught
	Microgametogenesis, pollen walicaruncle, hypostase, epistase: female gametophyte -megasporogenesis and Pollination and Fertilization: Pollination types and significance; adaptations; development, MCU (male germ unit) structure, NPC system, pollen wall proteins;pollen viability, storage and germination; pollen tube structure. caruncle, hypostase, epistase: female gametophyte -megasporogenesis and megagametogenesis: organization and ultra structure of mature embryo sac, pollen-pistil Interaction; structure of stigma and style; double fertilization. Self Incompatibility: Basic concepts; methods to overcome self incompatibility: Unspective and functions; endosperm haustoria. Embryogenesis: Classification, development, organization and differentiation of crucifer and Najas embryo; embryo- endosperm relationship; physiological and genetical control. Polyembryony and Apomixes: Introduction; classification; causes and applications.	Microgametogenesis, pollen wallcaruncie, hypostase, epistase: Assignment on any topic of this paper Pollination and Fertilization Pollination types and significance: adaptations; development, MCU (male germ unit) structure, NPC system, pollen value proteins;pollen viability, storage and germination; pollen value proteins;pollen viability, storage and germination; pollen value pollen, pisuli interaction; structure of mature embryo sac, pollen, pisuli interaction; structure of stigma and style; double fertilization. Self incompatibility; Types, development and functions; endosperm haustoria. Embryos endosperm relationship; physiological and genetical control. Polygembryon; and. Apomixes: Introduction; classification; classifications. Apomixes: Introduction; classification; classification, author citation, valid publication; relection of names, principle of plority; and its limitation; names of poller, structure



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Lesson plan (2022-23, Odd Sem.)

Trank

Dr. Anjana Anand

Name of teacher:

wonth	Topics to be covered	Assignment	Class test /Group discussion
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		a the state	class test on the topics taught
August		a second s	***
1993	What is systematics; Identification, Classification		
(Jan	and Nomenclature of plants; Field Inventory	a shellow when an a second second second	and the second sec
-			and the second s
			216 Parat
	Herbarium preparation and management:		
Cardon I.	important herbarla and botanical gardens of the	Assignment on any topic of this paper	
September	world and India. Classification by Bentham and		class test on the topics taught
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Hooker		
	Classification by Engler and Prantl &-		
	Takhtajan; brief reference of Angiosperm		
October	Phylogeny Group (APG) Classification		
			class test on the topics taught
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		중 - 양동 전 등 홍수 중 관 귀	
- and a state			
	Documentation: Flora, Monographs, Journals,		
	Online Journals and Keys; Evidences from		
November	morphology,		class test on the topics taugh
	palyonology, cytotaxonomy, chemotaxonomy,	S	
	serology, and molecular systematics.Concept of		
	taxa; categories and hierarchy; species concept		
	taxonomic,		
	biological, evolutionary), Principles and rules of		
	nomenclature; ranks and names; type method	A State of the second second second	
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	author citation, valid publication, rejection	200 C.R. C.M. C.M. C.M. C.M. C.M. C.M. C.M.	
	names, principle of priority and its limitati	ion;	
	names, principle of priority and its limitati	ion;	class test on the topics
	names, principle of priority and its limitati names of	s	class test on the topics
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	author chatton, valid positivers, names, principle of priority and its limitat names of hybrids and cultivars.role of Computer In systematics; Characters and attributes; Character weighing and coding;	s S DTUs,	class test on the topics
	author chatton, valid positienter, in names, principle of priority and its limitat names of hybrids and cultivars.role of Computer In systematics; Characters and attributes; C character weighing and coding; cluster analysis, phenograms, cladistic	s S DTUs, S.	class test on the topics
- December	author chatton, valid positienter, in names, principle of priority and its limitat names of hybrids and cultivars.role of Computer In systematics; Characters and attributes; C character weighing and coding; Cluster analysis, phenograms, cladistic Unit 4: Terms and concepts (homology, an	s S DTUs, Ialogy,	class test on the topics
- December	author chatton, valid pointing and its limitat names, principle of priority and its limitat names of hybrids and cultivars.role of Computer In systematics; Characters and attributes; (character weighing and coding; cluster analysis, phenograms, cladistic Unit 4: Terms and concepts (homology, an	s S DTUs, lalogy,	class test on the topics
December	author chatton, valid pointered, valid pointered, names, principle of priority and its limitat names, principle of priority and its limitat names of hybrids and cultivars role of Computer In systematics; Characters and attributes; (character weighing and coding; cluster analysis, phenograms, cladistic Unit 4: Terms and concepts (homology, an	s S DTUs, alogy,	class test on the topics
- December	author chatton, valid pointeron, valid pointeron, valid pointeron, valid pointeron, valid pointeron, valid v	s S alogy,	class test on the topics

ss: B.sc. Botany Hons 5th

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	Y & A			
	parallelism, convergence, monophyly,			40
	angiosperms; co-evolution of angiosperms and			
	animals; methods of illustrating evolutionary relationship (phylosoger)			
	tree, cladogram).	······································		
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January	Revision			
			Representation by student	ts
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