LESSON PLAN
Session: 2024-25 (ODD SEM)

Name of Teacher- Dr. ANIL KUMAR
Class- M.Sc. Botany
Subject- Microbial Diversity

WEEKS	SYLLABUS
Week 1	Introduction and scope of microbiology, isolation and sampling techniques for microorganisms, microbial culture media, different sterilization techniques, principles, protocols and applications of staining techniques
Week 2	measurement of microbial growth, determination of microbial growth curve, continuous and synchronous culture, safety measures in handling microbiological samples and microorganisms.
Week 3	Discovery of viruses and development of Virology, nomenclature and classification of viruses, physical and biochemical characteristics of viruses, isolation and purification techniques
Week 4	replication and transmission of viruses, economic importance of viruses, new emerging viruses and zoonotic diseases,
Week 5	characteristics of sub-viral agents- Viroids and Prions, Cultivation and assay of viruses
Week 6	Occurrence, classification, nutrition and reproduction shape and ultrastructure of bacterial cell,
Week 7	regulation of gene expression in prokaryotes, economic importance of bacteria
Week 8	salient features and biological significance of methanogens, cyanobacteria, phytoplasma,
Week 9	nitrogen fixing and phosphate solubilizing, photosynthetic, bioluminescent and phytopathogenic bacteria.
Week 10	General characters and classification of fungi, modes nutrition and reproduction, economic importance of fungi
Week 11	salient features of Mastigomycotina, Zygomycotina, Ascomycotina, Basidiomycotina and Deuteromycotina
Week 12	General account of heterokaryosis, heterothallism, parasexuality, sex hormones, mycorrhiza;

Week 13	Lichens: structure, reproduction and economic importance.
Week 14	Revision
Week 15	Class test and assignments
Week 16	Revision

Session: 2024-25 (ODD SEM)

Name of Teacher- Dr.Anil Kumar

Class- M.Sc. Botany

Subject- Cryptogamic Botany

WEEKS	**SYLLABUS**
Week 1	Phycology: Algae in diversified habitats (terrestrial, freshwater, marine); thallus organization; cell ultrastructure; reproduction (vegetative, asexual, and sexual).
Week 2	Classification of algae; criteria for classification; pigments, reserve food and flagella.
Week 3	Salient features of Protochlorophyta, Chlorophyta, Charophyta, Xanthophyta.
Week 4	Salient features of Bacillariophyta, Phaeophyta and Rhodophyta.
Week 5	Algal blooms; algal biofertilizers; Economic importance of algae as food, feed, medicine, and industry.
Week 6	Bryophyta: Morphology, structure, reproduction and life history; distribution; economic and ecological importance.
Week 7	Classification of bryophytes; general account of Marchantiales, Jungermaniales, Anthoceratales,
Week 8	Classification of bryophytes; general account of Sphagnales, Funariales and Polytrichales.
Week 9	Pteridophyta: General characteristics, morphology, anatomy, reproduction
Week 10	classification of Pteridophytes.
Week 11	Evolution of stele and stelar system; hetrospory and origin of seed habit;
Week 12	general account of fossil Pteridophyta;

Week 13	Introduction to Psilopsida, Lycopsida
Week 14	Introduction to Sphenopsida and Pteropsida.
Week 15	Class test and assignments
Week 16	Revision

LESSON PLAN

Session: 2024-25 (ODD SEM)

Name of Teacher- Dr. SURENDER KUMAR

Class- M.Sc. Botany

Subject- Plant Tissue Culture and Resource Utilization

WEEKS	**SYLLABUS**
Week 1	Plant Tissue Culture: Introduction, History, Scope and basic concepts
Week 2	Laboratory organization; Types of media and its preparation; Sterilization techniques;
Week 3	Concept of cellular differentiation and totipotency; Types of culture, callus/ suspension culture.
Week 4	Induction and maintenance of callus and suspension cultures.
Week 5	Fundamental aspects of Morphogenesis and Haploid production: Study of differentiation through Organogenesis and Embryogenesis,
Week 6	Somatic embryogenesis and its utility, Zygotic vs. Somatic embryogenesis, Micropropagation, Encapsulation of somatic embryo & shoot tip for artificial seed production and its applications,
Week 7	Haploid production: Definition, Androgenesis, Gynogenesis, Culture techniques, and induction factors, Biotechnological utilization of haploids.
Week 8	Somatic hybridization and variations: Protoplast isolation, fusion, culture, hybrid selection, and

	regeneration possibilities with special reference to crop plants,
Week 9	Applications and limitations of protoplast research, Selection mechanism for hybrids and cybrid
Week 10	Somaclonal & gametoclonal variations and isolations of useful mutants.
Week 11	Cryopreservation, Storage, and Importance: Cryopreservation and germplasm storage. Plant secondary metabolites; sources and production of secondary metabolites/natural products through tissue culture, their selections and elicitation;
Week 12	Biochemical pathways for producing secondary metabolites;
Week 13	Applications of plant tissue culture in Forestry, Ornamental plants, disease-free plants, and agriculture.
Week 14	revision
Week 15	Class test and assignments
Week 16	Revision

Name of Teacher- Surender Kumar

Class–M.Sc. 1st sem

Subject- Mushroom Culture Technology

Weeks	**Syllabus**
Week1	Mushrooms Introduction: History and Scope of Mushroom Cultivation, Taxonomical Position, Vegetative Characteristics,
Week2	Differentiation of edible and poisonous mushrooms. Common Edible mushrooms:.
Week3	Button mushroom (Agaricus bisporus), Milky mushroom (Calocybe indica)
Week4	Oyster mushroom (Pleurotus sajorcaju) and Paddy straw mushroom (Volvariella volvcea)

Week5	Natural Habitats- Humicolous, Lignicolous, and Coprophilous. Natural growth aspects and climatic requirements for each type of edible mushroom,
Week6	Principles of mushroom cultivation, Structure and construction of mushroom house.
Week7	Identification of appropriate mushrooms for commercial cultivation, nutritional and antinutritional properties,
Week8	medicinal values, therapeutic aspects, and antitumor effect of mushroom
Week9	Methods used for commercial cultivation include mushroom substrate selection, substrate soaking, pasteurization, etc.
Week 10	Role and method of compost preparation, Sterilization procedures.
Week 11	Preparation of value-added products, preparation of spawn substrate, process of spawn culture,
Week 12	selection of correct spawn, culture maintenance, mother spawn production, and storage of spawn.
Week13	Composting technology, mushroom bed preparation. Spawning, spawn running, harvesting.
Week 14	Cultivation of oyster and paddy straw mushroom. Problems in cultivation - diseases, pests and nematodes, weed molds, and their management strategies.
Week 15	Market opportunities; market liabilities; exploring local and national markets
Week 16	; foreign trade policy; logbooks/related documents for audit

Session: 2024-25 (Odd Semester)

Name of Teacher- Dr Ritu Nandal

Class–M.Sc. 1st sem

Subject- Plant Anatomy and Gymnosperms

Weeks	**Syllabus**
Week1	Plant tissue system, Tissue types and functions, Meristem, Their classification and functions
Week2	Organisation of root and shoot apices, Structures of xylem and phloem
Week3	Anatomy of dicot and monocot stem, root, leaves and wood. Transition from root to stem .

Week4	Primary and secondary growth, anomalous structure and abnormal secondary growth in stems. Application of anatomy in systematic, archaeology and climate change studies.
Week5	Introduction to Gymnosperms, general characters , life cycle
Week6	Divesrsity , origin and classification of gymnosperms. Evolution of Gymnosperms.
Week7	Affinities and evolutionary relationships with Angiosperms and Archegonaites. Distribution of gymnosperms in India.
Week8	Economic and ecological importance of gymnosperms. Wood characteristic in relation to gymnosperms.
Week9	Paleobotany: fossils, types of rocks, types of fossils and fossilization.
Week 10	Techniques for the study of fossils. Notable paleobotanists of India.
Week 11	General account of the few fossil gymnosperm families (Lyginopteridaceae, Medullosaceae, Glossopteridaceae and Caytoniaceae) and
Week 12	orders (Cycadeoidales, Pentoxylales and Cordaitales).
Week13	Comparative account of the morphology, anatomy and reproduction in the following orders: Cycadales
Week 14	Comparative account of the morphology, anatomy and reproduction in the following orders: Coniferalrs
Week 15	Comparative account of the morphology, anatomy and reproduction in the following orders: Ginkgoales, , Ephederales
Week 16	Comparative account of the morphology, anatomy and reproduction in the following orders: Welwitschiales and Gnetales.

LESSON PLAN
Session: 2024-25

Name of teacher- Dr Ritu Nandal
Class- B. Sc 2
Subject- Plant Anatomy

CLASS	WEEKS	SYLLABUS
	22-7-2024 to 27-7-2024	Introduction to tissue system, simple and complex
	29–8–2024 το 3–8–2024	Xylem and Phloem
	5-8-2024 to 10-8-2024	Epidermal tissue system, Vascular tissue system
	12-8-2024 to 17-8-2024	Ground tissue system, Root system
	20-8-2024 t 24-8-2024	Shoot system. Secondary growth in stem

	27-8-2024 to 31-8-2024	Anamolous secondary growth
	2-9-2024 to 7-9-2024	The Leaf, leaf abcission
	9-9-2024 to 14-9-2024	Stomata type and it's function
	16-9-2024 to 21-9-2024	Phyllotaxy
	23-9-2024 to 28-9-2024	Leaf anatomy of xerophytes
	30-9-2024 to 5-10-2024	Venation pattern
	7-10-2024 to 12-10-2024	Wood and it's types
	14-10-2024 to 19-10-2024	Secondary growth in storage roots
	21-10-2024 to 26-10-2024	**Meristematic tissue and it's types**
	4-11-2024 to 9-11-2024	**Revision and assignment**
	11-11-2024 to 20-11-2024	Class tests
	23-11-2024 to 20-12-2024	**MDU examination**
	21-12-2024 to 31-12-2024	**Winter break**

Name of Teacher- Dr.Naveeta
Class-B.Sc. Lifescience 1st Sem.
Subject- Diversity of Microbes

WEEKS	SYLLABUS
Week 1	Viruses: Discovery, physiochemical and biological characteristics; classification (Baltimore)
Week 2	General structure with special reference to viroids and prions; replication (general account), DNA virus (T-phage), lytic and lysogenic cycle; RNA virus (TMV).
Week 3	Bacteria: Discovery, general characteristics; Types- archaebacteria, eubacteria, wall-less forms (mycoplasma and spheroplasts); Cell structure; Nutritional types;
Week 4	Reproduction-vegetative, asexual and recombination (conjugation, transformation and transduction). Economic importance of bacteria with reference to their role in agriculture and industry (fermentation and medicine).
Week 5	Cyanobacteria: General characters; thallus organization; cell structure; heterocyst and akinete development; reproduction; Life-cycle of Nostoc. Economic Importance of Cyanobacteria.

Week 6	Algae: General characteristics; Algae in diversified habitats (terrestrial, freshwater, marine); thallus organization; cell ultrastructure; reproduction (vegetative, asexual and sexual); Algal classification criteria- pigments, reserve food and flagella; Classification upto classes (Smith, 1955); algal blooms and red tides; algal biofertilizers.
Week 7	Morphology and life-cycle of Volvox, Oedogonium (Chlorophyceae),
Week 8	Morphology and life-cycle of Vaucheria (Xanthophyceae)
Week 9	Ectocarpus(Phaeophyceae) and Polysiphonia (Rhodophyceae) Economic importance of algae
Week 10	Fungi: General characteristics; organization of thallus; nutrition and reproduction; Classification upto classes (Ainsworth, 1966); Morphology and life-cycles of Phytophthora (Mastigomycotina), Mucor
Week 11	(Zygomycotina), Penicillium (Ascomycotina), Puccinia, Agaricus (Basidiomycotina), Colletotrichum (Deuteromycotina); Economic importance of fungi
Week 12	Lichens: Classification, morphology, internal structure, reproduction and Economic importance
Week 13	Mycorrhiza: Ectomycorrhiza and endomycorrhiza and their significance
Week 14	**Assignments** **Revision**
Week 15	**Class test** **Revision**
Week 16	Revision

Name of Teacher- Pooja
Class –B.Sc. 2nd Year Section-B
Subject- Biology and Diversity of Seed Plants -I

Weeks	**Syllabus**
Week1	General characters, origin and evolution of gymnosperms
Week2	Geological time table
Week3	Evolution of seed habit
Week4	Pilger and melchior's (1954) system of classification of gymnosperms
Week5	Palaeobotany- fossils and fossilization (process involved, types of fossils and importance of fossils);
Week6	Reconstruction of the following fossil plants: lyginopteris
Week7	Reconstruction of the following fossil plants: williamsonia

Week8	Reconstruction of the following fossil plants: cycadeoidea (= bennettites)
Week9	Morphology and anatomy of root, stem
Week 10	Morphology and anatomy of leaf/leaflet and reproductive parts including mode of reproduction,
Week 11	Life-cycle and economic importance of following plants: *Cycas*
Week 12	Life-cycle and economic importance of following plants: *Pinus*
Week13	Morphology and anatomy of root, stem, leaf/leaflet and reproductive parts including mode of reproduction
Week 14	Life-cycle and economic importance of E*phedra*
Week 15	Economic importance of gymnosperms
Week 16	General characters, origin and evolution of angiosperms

Name of Teacher- Pawan Sindhu

Class–B.Sc. 2nd Year Section-A

Subject- Biology and Diversity of Seed Plants -I

Weeks	**Syllabus**
Week1	General characters, origin and evolution of gymnosperms
Week2	Geological time table
Week3	Evolution of seed habit
Week4	Pilger and melchior's (1954) system of classification of gymnosperms
Week5	Palaeobotany- fossils and fossilization (process involved, types of fossils and importance of fossils);
Week6	Reconstruction of the following fossil plants: lyginopteris
Week7	Reconstruction of the following fossil plants: williamsonia
Week8	Reconstruction of the following fossil plants: cycadeoidea (= bennettites)
Week9	Morphology and anatomy of root, stem
Week 10	Morphology and anatomy of leaf/leaflet and reproductive parts including mode of reproduction,
Week 11	Life-cycle and economic importance of following plants: *Cycas*
Week 12	Life-cycle and economic importance of following plants: *Pinus*
Week13	Morphology and anatomy of root, stem, leaf/leaflet and reproductive parts including mode of reproduction

Week 14	Life-cycle and economic importance of E*phedra*
Week 15	Economic importance of gymnosperms
Week 16	General characters, origin and evolution of angiosperms

Name of Teacher- Dr. Pawan

Class –B.Sc. Chem.Hons 3rd Semester

Subject- Plant Anatomy, Reproduction and Biotechnology

Weeks	
Week1	Classification and structure of tissue, organisation of roots and shoot apex
Week2	Basic structure of Dicot and monocot leaf, Secondary growth in roots and stems
Week3	Anatomical adaptation of Hydrophytes and Xerophytes, Anomalous secondary growth in *Boerhaavia*,
Week4	Anomalous secondary growth in *Tecoma* and *Dracaena*, Application of anatomy in systematics, forensics and pharmacognosy
Week5	Plant reproduction: structure of male and female gametophytes
Week6	Microsporogensis and Megasporogenesis, pollination and fertilization
Week7	Polan pistil interaction, Self incompatibility and methods to overcome self incompatibility
Week8	Endosperms types and function, Embryogenesis and polyembryony
Week9	Plant tissue culture; Historical prospective, composition of media, totipotency
Week 10	Physiochemical condition for propagation of plant cells and tissues
Week 11	Somatic embryogenesis, Protoplast isolation culture and fusion, Cybrids
Week 12	Micropropagation, methods and significance of haploid culture
Week13	Plant genetic engineering: brief concept of different gene transfer method special emphasis on Agrobacterium mediated gene transfer
Week 14	Role of plant biotechnology in crop improvement and genetically modified food
Week 15	Application of plant biotechnology for production quality oil
Week 16	Application of plant biotechnology for industrial enzymes and edible vaccine

Name: Dr.Ritu Hooda

Class:B.Sc. 5th Sem.

Paper- Ecology

Week 1	Introduction to Ecology: Definition; scope and importance; levels of organization
	SUNDAY
Week 2	Environment: Introduction; environmental factors- climatic (water, humidity, wind, light, temperature)
	SUNDAY
Week 3	edaphic (soil profile, physico-chemical properties), topographic and biotic factors (species interaction).
	SUNDAY
Week 4	Adaptations of plants to water stress and salinity (morphological and anatomical features of hydrophytes, xerophytes and halophytes).
	SUNDAY
Week	Population ecology: Basic concept; characteristics; biotic potential, growth curves; ecotypes and ecads.
	SUNDAY
Week 6	Community ecology: Concepts; characteristics (qualitative and quantitative analytical and synthetic); methods of analysis; ecological succession.
	SUNDAY
Week 7	Ecosystem: Structure (components) and functions (trophic levels, food chains, food webs, ecological pyramids and energy flow)
	SUNDAY
Week 8	Biogeochemical cycles: Carbon, nitrogen, phosphorus and hydrological cycle.
	SUNDAY
Week 9	Phyto-geography: Phyto- geographical regions of India; vegetation types of India (forests).
	SUNDAY
Week 10	Environmental pollution: Sources, types and control of air and water pollution.

Week 11	Global change: Greenhouse effect and greenhouse gases; impacts of global warming; carbon trading; Ozone layer depletion; Biomagnification
	SUNDAY
Week 12	Revision, Assignment, Test
	SUNDAY
Week 13	Revision, Assignment, Test
	SUNDAY

Name of Teacher- Dr Ritu Hooda
Class –B.Sc. 1st Semester (Minor Subject)
Subject- Fundamental of Plant Ecology

Weeks	**Syllabus**
Week1	Definition; scope and importance; levels of organization
Week2	Environment: Introduction; environmental factors- climatic (water, humidity, wind)
Week3	Environment: environmental factors- climatic (light, temperature), edaphic (soil profile, physico-chemical properties)
Week4	topographic and biotic factors (species interaction)
Week5	Adaptations of plants to water stress and salinity
Week6	Morphological and anatomical features of hdrophytes, xerophytes and halophytes)
Week7	Population ecology: Basic concept; characteristics; biotic potential
Week8	Growth curves; ecotypes and ecads
Week9	Community ecology: Concepts; characteristics (qualitative and quantitative -analytical and synthetic)
Week 10	Methods of analysis; ecological succession.
Week 11	Ecosystem: Structure (components) and functions (trophic levels, food chains, food webs, ecological pyramids and energy flow)
Week 12	Biogeochemical cycles: Carbon, nitrogen, phosphorus and hydrological cycle

Week13	Phyto-geography: Phyto-geographical regions of India; vegetation types of India
Week 14	Environmental pollution: Sources, types and control of air and water pollution
Week 15	Global change: Greenhouse effect and greenhouse gases; impacts of global warming
Week 16	Carbon trading; Ozone layer depletion; Biomagnification

Name of Teacher- Dr. Reena
Class –B.Sc. 1st Semester Section-A,B(SEC)
Subject- Biofertilizers and Biopesticides

Weeks	**Syllabus**
Week1	History of gardening; Importance and scope of floriculture and landscape gardening.
Week2	Nursery Management and Routine Garden Operations: Sexual and vegetative methods of propagation
Week3	Soil sterilization; Seed sowing; Pricking; Planting and transplanting; Shading;Stopping or pinching
Week4	Defoliation; Wintering; Mulching; Topiary; Role of plant growth regulators
Week5	Ornamental Plants: Flowering annuals (Petunia, Chrysanthemum); perennials (Rose, China Rose)
Week6	Divine vines (Money plant, Monstera); Shade and ornamental trees
Week7	Ornamental bulbous and foliage plants; Cacti and succulents; Palms and Cycads
Week8	Ferns and Selaginellas; Cultivation of plants in pots; Indoor gardening; Bonsai
Week9	Principles of Garden Design and landscaping ideas
Week 10	Features of a garden (Garden wall, Fencing, Steps, Hedge, Edging, Lawn, Flower beds, Shrubbery, Borders, Water garden
Week 11	Features of a garden (Garden wall, Fencing, Steps, Hedge, Edging, Lawn, Flower beds, Shrubbery, Borders, Water garden
Week 12	Features of a garden (Garden wall, Fencing, Steps, Hedge, Edging, Lawn, Flower beds, Shrubbery, Borders, Water garden.
Week13	Commercial Floriculture: Factors affecting flower production
Week 14	Production and packaging of cut flowers; Flower arrangements; Methods to prolong vase life
Week 15	Cultivation of Important cut flowers (Carnation, Aster, Chrysanthemum, Dahlia, Gerbera, Gladiolous, Marigold, Rose, Lilium, Orchids)
Week 16	Cultivation of Important cut flowers (Carnation, Aster, Chrysanthemum, Dahlia, Gerbera, Gladiolous, Marigold, Rose, Lilium, Orchids)

Name: Dr.Monika

Class:B.Sc. 5th Sem.

Paper- Ecology

Week 1	Introduction to Ecology: Definition; scope and importance; levels of organization
	SUNDAY
Week 2	Environment: Introduction; environmental factors- climatic (water, humidity, wind, light, temperature)
	SUNDAY
Week 3	edaphic (soil profile, physico-chemical properties), topographic and biotic factors (species interaction).
	SUNDAY
Week 4	Adaptations of plants to water stress and salinity (morphological and anatomical features of hydrophytes, xerophytes and halophytes).
	SUNDAY
Week	Population ecology: Basic concept; characteristics; biotic potential, growth curves; ecotypes and ecads.
	SUNDAY
Week 6	Community ecology: Concepts; characteristics (qualitative and quantitative analytical and synthetic); methods of analysis; ecological succession.
	SUNDAY
Week 7	Ecosystem: Structure (components) and functions (trophic levels, food chains, food webs, ecological pyramids and energy flow)
	SUNDAY
Week 8	Biogeochemical cycles: Carbon, nitrogen, phosphorus and hydrological cycle.
	SUNDAY
Week 9	Phyto-geography: Phyto- geographical regions of India; vegetation types of India (forests).
	SUNDAY
Week 10	Environmental pollution: Sources, types and control of air and water pollution.

Week 11	Global change: Greenhouse effect and greenhouse gases; impacts of global warming; carbon trading; Ozone layer depletion; Biomagnification
	SUNDAY
Week 12	Revision, Assignment, Test
	SUNDAY
Week 13	Revision, Assignment, Test
	SUNDAY

Name of Teacher- Dr Surender Singh
Class–B.Sc. 5th semester, Section-A and B
Subject- Plant Physiology

Weeks	**Syllabus**
Week1	Plant-water relations: Importance of water to plant life; Different physical and Chemical properties of water
Week2	Imbibition, diffusion and osmosis; absorption and transport of water; transpiration; physiology of stomata
Week3	Mineral nutrition: Essential macro and micro elements and their role;
Week4	Mineral uptake; deficiency symptoms.
Week5	Transport of organic substances: Mechanism of phloem transport; source-sink relationship; factors affecting translocation
Week6	Photosynthesis : significance; historical aspects; photosynthetic pigments
Week7	Action spectra and enhancement effects; concept of two photosystems
Week8	Z-scheme; photo- phosphorylation; Calvin cycle; C4 pathway; CAM plants; photorespiration
Week9	Growth and development : Definitions; phases of growth and development
Week 10	Seed dormancy; plant movements; the concept of photoperiodism;
Week 11	Physiology of flowering; florigen concept
Week 12	Physiology of senescence; fruit ripening;
Week13	Plant hormones- auxins, gibberellins, cytokinins, history of their discovery mechanism of action
Week 14	Abscissic acid and ethylene, history of their discovery, mechanism of action

Week 15	Photo-morphogenesis Concept, Role of diffent photoreceptors in photomophogenesis
Week 16	Phytochromes and their discovery, physiological role and mechanism of action.

Name of teacher- Dr Seema
Class- B. Sc 2
Subject- Plant Anatomy

CLASS	WEEKS	SYLLABUS
	22-7-2024 to 27-7-2024	Introduction to tissue system, simple and complex
	29–8–2024 το 3–8–2024	Xylem and Phloem
	5-8-2024 to 10-8-2024	Epidermal tissue system, Vascular tissue system
	12-8-2024 to 17-8-2024	Ground tissue system, Root system
	20-8-2024 t 24-8-2024	Shoot system. Secondary growth in stem
	27-8-2024 to 31-8-2024	Anamolous secondary growth
	2-9-2024 to 7-9-2024	The Leaf, leaf abcission
	9-9-2024 to 14-9-2024	Stomata type and it's function
	16-9-2024 to 21-9-2024	Phyllotaxy
	23-9-2024 to 28-9-2024	Leaf anatomy of xerophytes
	30-9-2024 to 5-10-2024	Venation pattern
	7-10-2024 to 12-10-2024	Wood and it's types
	14-10-2024 to 19-10-2024	Secondary growth in storage roots
	21-10-2024 to 26-10-2024	**Meristematic tissue and it's types**
	4-11-2024 to 9-11-2024	**Revision and assignment**
	11-11-2024 to 20-11-2024	Class tests
	23-11-2024 to 20-12-2024	**MDU examination**
	21-12-2024 to 31-12-2024	**Winter break**