

Lesson Plan (2021-2022)

Sr. No.	Name of Departments
1	Department of Botany
2	Department of Economics
3	Department of Computer Science
4	Department of Management
5	Department of Commerce
6	Department of Bio-Technology
7	Department of Chemistry
8	Department of EVS
9	Department of Electronics
10	Department of Geography
11	Department of Public Administration
12	Department of Defense Studies
13	Department of History
14	Department of Physics
15	Department of Mass Communication
16	Department of Mathematics
17	Department of Physical Education
18	Department of Political Science
19	Department of Psychology
20	Department of Sanskrit
21	Department of Zoology
22	Department of Hindi
23	Department of English

DEPARTMENT OF BOTANY

DAYANAND COLLEGE, HISAR

Name of Faculty Member: Dr.Aditya Kumar
Designation: Assistant Professor
Class: B.Sc. I Medical **Section:** A1
Semester: Ist **Paper:** Paper I & II
Nomenclature of Paper: Biodiversity of Microbes, Algae and Fungi (BOT 101L)
 Biodiversity of Archegoniates (BOT 102L)

Botany Lesson Plan: (w.e.f.10-11-2021)

Month	Class	Topic/Chapter Covered	Test/Assignment
November, 2021	B.Sc. I Medical Section: A1	Introduction to microbes, algae and fungi Viruses: Viruses – Discovery, general characteristics, replication (general account), DNA virus (T-phage); Lytic and lysogenic cycle, RNA virus (TMV) Economic Importance of Viruses.	
December, 2021	B.Sc. I Medical Section: A1	Bacteria: Introduction to Bacteria Discovery, General characteristics and cell structure Reproduction in Bacteria Economic importance of bacteria. Algae: General characteristics of Algae. Range of thallus organization and reproduction; Classification of algae Morphology and life-cycles of <i>Nostoc</i> , <i>Volvox</i> , <i>Oedogonium</i> , <i>Ectocarpus</i> and <i>Polysiphonia</i> Economic importance of algae. Archegoniates: Unifying features of archegoniates Transition to land habit, Alternation of generations	
January, 2022	B.Sc. I Medical Section: A1	Fungi: Introduction- General characteristics, economic importance, reproduction and classification.	Assignment-1 (Paper-I) Minor test-I (Paper-I)

		<p>Morphology and life cycles of <i>Rhizopus</i>, <i>Penicillium</i>, <i>Puccinia</i>, <i>Agaricus</i>, and <i>Colletotrichum</i>.</p> <p>Paleobotany: General account of Paleobotany; Types of fossils and process of fossilization. Study of fossil plants: <i>Rhynia</i> and <i>Lyginopteris</i></p>	
February, 2022	B.Sc. I Medical Section: A1	<p>Plant pathology: Causal organism, symptoms and control of following plant diseases; Rust of wheat White rust of crucifers Late blight of potato Red rot of sugarcane Lichens: General account and significance</p> <p>Bryophytes: General characteristics, Range of habitat and thallus organization. Classification of Bryophytes. Morphology, anatomy and reproduction of <i>Marchantia</i>, <i>Anthoceros</i> and <i>Funaria</i>. Ecology and Economic importance of Bryophytes</p>	Assignment-II (Paper-II) Minor test-II (Paper-II)
March, 2022	B.Sc. I Medical Section: A1	<p>Pteridophytes: General characteristics, Classification, morphology, anatomy and reproduction of <i>Selaginella</i>, <i>Equisetum</i> and <i>Pteris</i>. Heterospory and seed habit. Economic importance of Pteridophytes</p> <p>Gymnosperms: General characteristics, Classification, morphology, anatomy and reproduction of <i>Cycas</i>, and <i>Pinus</i>. Ecological and Economic importance of Gymnosperms.</p>	

Signature of the teacher concerned with date

DEPARTMENT OF BOTANY

DAYANAND COLLEGE, HISAR

Name of Faculty Member: Dr.Chhavi Mangla
Designation: Assistant Professor
Class: B.Sc. I Medical **Section:** A2
Semester: Ist **Paper:** Paper I & II
Nomenclature of Paper: Biodiversity of Microbes, Algae and Fungi (BOT 101L)
 Biodiversity of Archegoniates (BOT 102L)

Botany Lesson Plan: (w.e.f.10-11-2021)

Month	Class	Topic/Chapter Covered	Test/Assignment
November, 2021	B.Sc. I Medical Section: A2	Introduction to microbes, algae and fungi Viruses: Viruses – Discovery, general characteristics, replication (general account), DNA virus (T-phage); Lytic and lysogenic cycle, RNA virus (TMV) Economic Importance of Viruses.	
December, 2021	B.Sc. I Medical Section: A2	Bacteria: Introduction to Bacteria Discovery, General characteristics and cell structure Reproduction in Bacteria Economic importance of bacteria. Algae: General characteristics of Algae. Range of thallus organization and reproduction; Classification of algae Morphology and life-cycles of <i>Nostoc</i> , <i>Volvox</i> , <i>Oedogonium</i> , <i>Ectocarpus</i> and <i>Polysiphonia</i> Economic importance of algae. Archegoniates: Unifying features of archegoniates Transition to land habit, Alternation of generations	

<p>January, 2022</p>	<p>B.Sc. I Medical Section: A2</p>	<p>Fungi: Introduction- General characteristics, economic importance, reproduction and classification.</p> <p>Morphology and life cycles of <i>Rhizopus</i>, <i>Penicillium</i>, <i>Puccinia</i>, <i>Agaricus</i>, and <i>Colletotrichum</i>.</p> <p>Paleobotany: General account of Paleobotany; Types of fossils and process of fossilization. Study of fossil plants: <i>Rhynia</i> and <i>Lyginopteris</i></p>	<p>Assignment-1 (Paper-I) Minor test-I (Paper-I)</p>
<p>February, 2022</p>	<p>B.Sc. I Medical Section: A2</p>	<p>Plant pathology: Causal organism, symptoms and control of following plant diseases; Rust of wheat White rust of crucifers Late blight of potato Red rot of sugarcane Lichens: General account and significance</p> <p>Bryophytes: General characteristics, Range of habitat and thallus organization. Classification of Bryophytes. Morphology, anatomy and reproduction of <i>Marchantia</i>, <i>Anthoceros</i> and <i>Funaria</i>. Ecology and Economic importance of Bryophytes</p>	<p>Assignment-II (Paper-II) Minor test-II (Paper-II)</p>
<p>March, 2022</p>	<p>B.Sc. I Medical Section: A2</p>	<p>Pteridophytes: General characteristics, Classification, morphology, anatomy and reproduction of <i>Selaginella</i>, <i>Equisetum</i> and <i>Pteris</i>. Heterospory and seed habit. Economic importance of Pteridophytes</p> <p>Gymnosperms: General characteristics, Classification, morphology, anatomy and reproduction of <i>Cycas</i>, and <i>Pinus</i>. Ecological and Economic importance of Gymnosperms.</p>	

Signature of the teacher concerned with date

DEPARTMENT OF BOTANY

DAYANAND COLLEGE, HISAR

Name of Faculty Member: Devraj

Designation: Assistant Professor

Class: B.Sc. Biotech **Section:** B

Semester: Ist **Paper:** Paper I & II

Nomenclature of Paper: Biodiversity of Microbes, Algae and Fungi (BOT 101L)
Biodiversity of Archegoniates (BOT 102L)

Botany Lesson Plan:

Month	Class	Topic/Chapter Covered	Test/Assignment
November, 2021	B.Sc. I Biotech B	Introduction to microbes, algae and fungi Viruses: Viruses – Discovery, general characteristics, replication (general account), DNA virus (T-phage); Lytic and lysogenic cycle, RNA virus (TMV) Economic Importance of Viruses.	
December, 2021	B.Sc. I Biotech B	Bacteria: Introduction to Bacteria Discovery, General characteristics and cell structure Reproduction in Bacteria Economic importance of bacteria. Algae: General characteristics of Algae. Range of thallus organization and reproduction; Classification of algae Morphology and life-cycles of <i>Nostoc</i> , <i>Volvox</i> , <i>Oedogonium</i> , <i>Ectocarpus</i> and <i>Polysiphonia</i> Economic importance of algae. Archegoniates: Unifying features of archegoniates Transition to land habit, Alternation of generations	
January	B.Sc. I	Fungi:	Assignment-

, 2022	Biotech B	<p>Introduction- General characteristics, economic importance, reproduction and classification.</p> <p>Morphology and life cycles of <i>Rhizopus</i>, <i>Penicillium</i>, <i>Puccinia</i>, <i>Agaricus</i>, and <i>Colletotrichum</i>.</p> <p>Paleobotany: General account of Paleobotany; Types of fossils and process of fossilization. Study of fossil plants: <i>Rhynia</i> and <i>Lyginopteris</i></p>	1(Paper-I) Minor test-I (Paper-I)
February, 2022	B.Sc. I Biotech B	<p>Plant pathology: Causal organism, symptoms and control of following plant diseases; Rust of wheat White rust of crucifers Late blight of potato Red rot of sugarcane Lichens: General account and significance</p> <p>Bryophytes: General characteristics, Range of habitat and thallus organization. Classification of Bryophytes. Morphology, anatomy and reproduction of <i>Marchantia</i>, <i>Anthoceros</i> and <i>Funaria</i>. Ecology and Economic importance of Bryophytes</p>	Assignment-II(Paper-II) Minor test-II (Paper-II)
March, 2022	B.Sc. I Biotech B	<p>Pteridophytes: General characteristics, Classification, morphology, anatomy and reproduction of <i>Selaginella</i>, <i>Equisetum</i> and <i>Pteris</i>. Heterospory and seed habit. Economic importance of Pteridophytes</p> <p>Gymnosperms: General characteristics, Classification, morphology, anatomy and reproduction of <i>Cycas</i>, and <i>Pinus</i>. Ecological and Economic importance of Gymnosperms.</p>	

Signature of the teacher concerned with date

DEPARTMENT OF BOTANY
DAYANAND COLLEGE, HISAR

Lesson Plan (2021-22)
(w.e.f. 09.11.2021 to 26.01.2022)

Name of Institute : **Dayanand College, Hisar**
Name of the teacher with designation : **Dr. Hemant Sharma** , Assistant Professor of Botany
Class : **B.Sc. II, 3rd Semester (Medical , Section A1)**
Subject : **Botany**

Month	Class	Paper	Topic/Chapter covered	Test/Assignment
November 2021	B.Sc.-II 3 rd Sem Medical A1	I Plant Anatomy (BOT 301L)	<p>Unit 1: Meristematic and permanent tissues Root and shoot apical meristems; Simple and complex tissues. Theories of shoot apex.</p> <p>Unit 2: Organs Structure of dicot and monocot root stem and leaf, Stomata and its types, epidermal hairs, Trichomes</p> <p>Unit 3: Secondary Growth Vascular cambium – structure and function, seasonal activity. Secondary growth in root and stem, Wood (heartwood and sapwood). Anomalous secondary growth in Boerhaavia and Dracaena.</p>	
December 2021	B.Sc.-II 3 rd Sem. Medical A1	I Plant Anatomy (BOT 301L) II Plant Embryology (BOT 302L)	<p>Unit 4: Adaptive and protective systems Epidermis, cuticle, Anatomical aspects of adaptations in xerophytes, hydrophytes, halophytes.</p> <p>Unit 1: Structural organization of flower Structure of anther and pollen; Structure and types of ovules; Types of embryo sacs, organization and ultra structure of mature embryo sac. Placentation-Types.</p> <p>Unit 2: Pollination and fertilization Pollination mechanisms and adaptations; Double fertilization; Seed-structure appendages and dispersal mechanisms.</p>	Assignment I (Paper I) Unit Test I (Paper I)
January 2022	B.Sc.-II 3 rd Sem. Medical A1	II Plant Embryology (BOT 302L)	<p>Unit 3: Embryo and endosperm Endosperm types, structure and functions; Dicot and monocot embryo; Embryo-endosperm relationship.</p> <p>Unit 4: Apomixes and polyembryony</p>	Assignment II (Paper II) Unit Test II (Paper II)

(Dr. Hemant Sharma)
Signature of Teacher

DEPARTMENT OF BOTANY DAYANAND COLLEGE, HISAR

Lesson Plan (2021-22) (w.e.f. 09.11.2021 to 26.01.2022)

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Devraj , Assistant Professor of Botany
 Class : B.Sc. II, 3rd Semester (Biotech , Section B)
 Subject : Botany {Ethno botany (BOT 304 L)}

Month	Class	Topic/Chapter covered	Test/ Assignment
November 2021	B.Sc.-II 3 rd Semester Biotech B	<p>Unit 1 : Introduction, concept, scope and objectives Ethnobotany as an interdisciplinary science. The relevance of ethnobotany in the present context Major and minor ethnic groups or Tribals of India, and their life styles. Plants used by the tribals: a) Food plants b) intoxicants and beverages c) Resins and oils and miscellaneous uses.</p> <p>Unit 2 : a) Field work b) Herbarium c) Ancient Literature d) Archaeological findings e) temples and sacred places.</p>	Group Discussion
December 2021	B.Sc.-II 3 rd Sem. Biotech B	<p>Unit 3 : Medico-ethnobotanical sources in India;Significance of the following plants in ethno botanical practices (along with their habitat and morphology) a) <i>Azadiracta indica</i> b) <i>Ocimum sanctum</i> c) <i>Vitex negundo</i>. d) <i>Gloriosa superba</i> e) <i>Tribulus terrestris</i> f) <i>Pongamia pinnata</i> g) <i>Cassia auriculata</i> h) <i>Indigofera tinctoria</i>.</p> <p>Role of ethnobotany in modern medicine with special example <i>Rauvolfia sepentina</i>, <i>Trichopus zeylanicus</i>, <i>Artemisia</i>, <i>Withania</i>.</p> <p>Role of ethnic groups in conservation of plant genetic resources.</p> <p>Endangered taxa and forest management (participatory forest management).</p>	Assignment Unit Test

January 2022	B.Sc.-II 3 rd Sem. Biotech B	<i>Unit 4</i> Ethnobotany as a tool to protect interests of ethnic groups. Sharing of wealth concept with few examples from India. Biopiracy, Intellectual Property Rights and Traditional Knowledge. Revision of syllabus .	Power point presentation

Signature of Teacher

Dayanand college, Hisar

Department of Botany

Botany lesson plan: November 2021 to January 2022

Name of teacher :- Priti

Designation :- Assistant Professor

Class :- B.Sc. Second year

Section :- A1 Medical

Subject :- Botany

Paper Name and Paper Code :- Biofertilizers (BOT 305 L)

Tentative Dates	Topics
10 November 2021 to 13 November 2021	General introduction of syllabus General account about the microbes used as biofertilizer – Rhizobium - isolation
14 November 2021	Sunday
15 November to 18 November 2021	General account about the microbes used as biofertilizer – Rhizobium – identification, mass multiplication, carrier based inoculants
19 November 2021	Holiday
20 November 2021	Actinorrhizal symbiosis
21 November 2021	Sunday
22 November to 27 November 2021	<i>Azospirillum</i> : isolation and mass multiplication
28 November 2021	Sunday
29 November to 04 December 2021	<i>Azospirillum</i> : carrier based inoculant, associative effect of different microorganisms.
05 December 2021	Sunday
06-11 December 2021	<i>Azotobacter</i> : classification, characteristics – crop response to <i>Azotobacter</i> inoculum, maintenance and mass multiplication. Class test Class Assignment
12 December 2021	Sunday
13-18 December 2021	Cyanobacteria (blue green algae), <i>Azolla</i> and <i>Anabaena azollae</i> association,
19 December 2021	Sunday
20 -24 December 2021	Nitrogen fixation, factors affecting growth, blue green algae and <i>Azolla</i> in rice cultivation.
25 December 2021	Holiday
26 December 2021	Sunday
27 December To 01 January 2022	Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition,
02 January 2022	Sunday
03-08 January 2022	Growth and yield – colonization of VAM – isolation and inoculum production of VAM,
9 January 2022	Sunday
10-15 January 2022	VAM - influence on growth and yield of crop plants.

16 January 2022	Sunday
17-22 January 2022	Organic farming – Green manuring and organic fertilizers , Recycling of bio- degradable municipal
23 January 2021	Sunday
24-25 January 2022	Agricultural and Industrial wastes – biocompost making methods
26 January 2022	Holiday
27-29 January 2022	types and method of vermicomposting – field Application.
30 January 2022	Sunday
31 January 2022	Revision

Teacher's Signature

Lesson Plan (2021-22)
(w.e.f. 09.11.2021 to 26.01.2022)

Name of Institute : **Dayanand College, Hisar**
Name of the teacher with designation : **Priya** , Assistant Professor of Botany
Class : **B.Sc. II, 3rd Semester (Biotech , Section-B)**
Subject : **Botany**

Month	Class	Paper	Topic/Chapter covered	Test/ Assignment
November 2021	B.Sc.-II 3 rd Sem. Biotech B	I Plant Anatomy (BOT 301L)	<p>Unit 1: Meristematic and permanent tissues Root and shoot apical meristems; Simple and complex tissues. Theories of shoot apex.</p> <p>Unit 2: Organs Structure of dicot and monocot root stem and leaf, Stomata and its types, epidermal hairs, Trichomes</p> <p>Unit 3: Secondary Growth Vascular cambium – structure and function, seasonal activity. Secondary growth in root and stem, Wood (heartwood and sapwood). Anomalous secondary growth in Boerhaavia and Dracaena.</p>	
December 2021	B.Sc.-II 3 rd Sem. Biotech B	I Plant Anatomy (BOT 301L) II Plant Embryology (BOT 302L)	<p>Unit 4: Adaptive and protective systems Epidermis, cuticle, Anatomical aspects of adaptations in xerophytes, hydrophytes, halophytes.</p> <p>Unit 1: Structural organization of flower Structure of anther and pollen; Structure and types of ovules; Types of embryo sacs, organization and ultra structure of mature embryo sac. Placentation-Types.</p> <p>Unit 2: Pollination and fertilization Pollination mechanisms and adaptations; Double fertilization; Seed-structure appendages and dispersal mechanisms.</p>	Assignment I (Paper I) Unit Test I (Paper I)

January 2022	B.Sc.-II 3 rd Sem. Biotech B	II Plant Embryology (BOT 302L)	Unit 3: Embryo and endosperm Endosperm types, structure and functions; Dicot and monocot embryo; Embryo-endosperm relationship. Unit 4: Apomixes and polyembryony Definition, types and practical applications.	Assignment II (Paper II) Unit Test II (Paper II)
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Signature of Teacher

Lesson Plan (2021-22)
(w.e.f. 09.11.2021 to 26.01.2022)

Name of Institute : **Dayanand College, Hisar**
 Name of the teacher with designation : **Priya**, Assistant Professor of Botany
 Class : **B.Sc. II, 3rd Semester (Medical A2)**
 Subject : **Botany Mushroom Culture Technology (BOT 306 L)**

Month	Class	Topic/Chapter covered	Test/ Assignment
November 2021	B.Sc.-II 3 rd Semester Medical A2	Unit 1 Introduction, history. Nutritional and medicinal value of edible mushrooms; Poisonous mushrooms. Types of edible mushrooms available in India – <i>Volvariella volvacea</i> , <i>Pleurotus citrinopileatus</i> , <i>Agaricus bisporus</i> . Unit 2 : Cultivation Technology: Infrastructure: substrates (locally available) Polythene bag, vessels, Inoculation hook, inoculation loop, low cost stove, sieves, culture rack, mushroom unit (Thatched house) water sprayer, tray, small polythene bag. Pure culture: Medium, sterilization, preparation of spawn, multiplication. Mushroom bed preparation - paddy straw, sugarcane trash, maize straw, banana leaves.	Group Discussion
December 2021	B.Sc.-II 3 rd Sem. Medical A2	Unit 2 : Factors affecting the mushroom bed preparation - Low cost technology, Composting technology in mushroom production. Unit 3 : Storage and nutrition: Short-term storage (Refrigeration - upto 24 hours) Long term Storage (canning, pickels, papads), drying, storage in salt solutions. Nutrition - Proteins - amino acids, mineral elements nutrition - Carbohydrates, Crude fibre content - Vitamins.	Assignment Unit Test
January 2022	B.Sc.-II 3 rd Sem. Medical A2	Unit 4 : Food Preparation: Types of foods prepared from mushroom. Research Centres - National level and Regional level. Cost benefit ratio - Marketing in India and abroad, Export Value..	Power poin presentation

Dayanand college, Hisar

Department of Botany

Botany lesson plan: November 2021 to January 2022

Name of teacher :- Anju

Designation :- Assistant Professor

Class :- B.Sc. Second year

Section :- A2 Medical

Subject :- Botany

Paper Name and Paper Code :- Plant Anatomy (BOT 301 L)

Tentative Dates	Topics
10 November 2021 to 13 November 2021	General introduction of syllabus Root and shoot apical meristems
14 November 2021	Sunday
15 November to 18 November 2021	Simple tissue
19 November 2021	Holiday
20 November 2021	Complex tissue
21 November 2021	Sunday
22 November to 27 November 2021	Theories of shoot apex.
28 November 2021	Sunday
29 November to 04 December 2021	Structure of dicot root ,stem and leaf
05 December 2021	Sunday
06-11 December 2021	Structure of monocot root , stem and leaf Class test Class Assignment
12 December 2021	Sunday
13-18 December 2021	Stomata and its types, epidermal hairs
19 December 2021	Sunday
20 -24 December 2021	Trichomes Group Discussion
25 December 2021	Holiday
26 December 2021	Sunday
27 December To 01 January 2022	Vascular cambium – structure and function, seasonal activity
02 January 2022	Sunday
03-08 January 2022	Secondary growth in root and stem, Wood (heartwood and sapwood)
9 January 2022	Sunday
10-15 January 2022	Anamolous secondary growth in Boehrvia and Dracaena .
16 January 2022	Sunday

17-22 January 2022	Epidermis, cuticle , Anatomical aspects of adaptations in xerophytes
23 January 2021	Sunday
24-25 January 2022	Epidermis, cuticle, Anatomical aspects of adaptations in hydrophytes
26 January 2022	Holiday
27-29 January 2022	Epidermis, cuticle, Anatomical aspects of adaptations in halophytes.
30 January 2022	Sunday
31 January 2022	Revision

Teacher's Signature

Dayanand college, Hisar

Department of Botany

Botany lesson plan: November 2021 to January 2022

Name of teacher :- Anju

Designation :- Assistant Professor

Class :- B.Sc. Second year

Section :- A2 Medical

Subject :- Botany

Paper Name and Paper Code :- Plant Embryology (BOT 302 L)

Tentative Dates	Topics
10 November 2021 to 13 November 2021	General introduction of syllabus Structure of anther
14 November 2021	Sunday
15 November to 18 November 2021	Structure of pollen; Structure and types of ovules
19 November 2021	Holiday
20 November 2021	Types of embryo sacs
21 November 2021	Sunday
22 November to 27 November 2021	Organization and ultrastructure of mature embryo sac.
28 November 2021	Sunday
29 November to 04 December 2021	Placentation-Types. Pollination mechanisms and adaptations
05 December 2021	Sunday
06-11 December 2021	Double fertilization Class test Class Assignment
12 December 2021	Sunday
13-18 December 2021	Seed-structure appendages and dispersal mechanisms.
19 December 2021	Sunday
20 -24 December 2021	Endosperm types Group Discussion

25 December 2021	Holiday
26 December 2021	Sunday
27 December To 01 January 2022	Endosperm structure and functions
02 January 2022	Sunday
03-08 January 2022	Dicot and monocot embryo
9 January 2022	Sunday
10-15 January 2022	Embryo-endosperm relationship.
16 January 2022	Sunday
17-22 January 2022	Apomixis - Definition, types
23 January 2021	Sunday
24-25 January 2022	Apomixis - practical applications
26 January 2022	Holiday
27-29 January 2022	Polyembryony - Definition, types and practical applications
30 January 2022	Sunday
31 January 2022	Revision

Teacher 's Signature

Dayanand college, Hisar

Department of Botany

Botany lesson plan: November 2021 to January 2022

Name of teacher :- Dr. Vivek Srivastava

Designation :- Associate Professor

Class :- B.Sc .Final year

Section :- A1 Medical

Subject :- Botany

Paper Name and Paper Code :- Cell Biology (BOT 501L)

Tentative Dates	Topics
10 November 2021 to 13 November 2021	General introduction of syllabus The Cell Theory , Prokaryotic cells
14 November 2021	Sunday
15 November to 18 November 2021	Eukaryotic cells; Cell size, Cell shape; Eukaryotic Cell components.
19 November 2021	Holiday
20 November 2021	Cell Cycle: Overview of Cell cycle, Mitosis and Meiosis
21 November 2021	Sunday
22 November to 27 November 2021	Cell Cycle: Molecular controls , Mitochondria: Structure, marker enzymes, Symbiont hypothesis;
28 November 2021	Sunday
29 November to 04 December 2021	Mitochondria: composition; Semiautonomous nature; Proteins synthesized within mitochondria; mitochondrial DNA. Chloroplast Structure .
05 December 2021	Sunday
06-11 December 2021	Chloroplast : marker enzymes, composition; semiautonomous nature, chloroplast DNA. Class test Class Assignment
12 December 2021	Sunday
13-18 December 2021	Endoplasmic reticulum
19 December 2021	Sunday
22 -24 December 2021	Golgi body & Lysosomes : Structures and roles. Peroxisomes : Structures, composition, functions in animals and plants .
25 December 2021	Holiday
26 December 2021	Sunday
27 December To 01 January 2022	Peroxisomes : biogenesis. Glyoxisomes: Structures, composition, functions in animals and plants and biogenesis.
02 January 2022	Sunday
03-08 January 2022	Nucleus: Nuclear Envelope- structure of nuclear pore complex; chromatin; molecular organization,
9 January 2022	Sunday
10-15 January 2022	DNA packaging in eukaryotes, euchromatin and heterochromatin Nucleolus and ribosome structure (brief).

16 January 2022	Sunday
17-22 January 2022	Vacuoles , Cell wall.
23 January 2021	Sunday
24-25 January 2022	The functions of membranes; Models of membrane structure.
26 January 2022	Holiday
27-29 January 2022	Cell Membrane : The fluidity of membranes; Membrane proteins and their functions; Cell Membrane : Carbohydrates in the membrane.
30 January 2022	Sunday
31 January 2022	Cell Membrane : Selective permeability of the membranes . Cell Membrane: Faces of the membranes.

Teacher's Signature

Dayanand college, Hisar

Department of Botany

Botany lesson plan: - November 2021 to January 2022

Name of teacher :-Dr. Vivek Srivastava

Designation :- Associate Professor

Class :- B.Sc .Final year

Section- B Biotech

Subject

:-Botany

Paper Name and Paper Code :- Cell Biology (BOT 501L)

Tentative Dates	Topics
10 November 2021 to 13 November 2021	General introduction of syllabus The Cell Theory , Prokaryotic cells
14 November 2021	Sunday
15 November to 18 November 2021	Eukaryotic cells; Cell size, Cell shape; Eukaryotic Cell components.
19 November 2021	Holiday
20 November 2021	Cell Cycle: Overview of Cell cycle, Mitosis and Meiosis
21 November 2021	Sunday
22 November to 27 November 2021	Cell Cycle: Molecular controls , Mitochondria: Structure, marker enzymes, Symbiont hypothesis;

28 November 2021	Sunday
29 November to 04 December 2021	Mitochondria: composition; Semiautonomous nature; Proteins synthesized within mitochondria; mitochondrial DNA. Chloroplast Structure .
05 December 2021	Sunday
06-11 December 2021	Chloroplast : marker enzymes, composition; semiautonomous nature, chloroplast DNA. Class test Class Assignment
12 December 2021	Sunday
13-18 December 2021	Endoplasmic reticulum
19 December 2021	Sunday
22 -24 December 2021	Golgi body & Lysosomes : Structures and roles. Peroxisomes : Structures, composition, functions in animals and plants .
25 December 2021	Holiday
26 December 2021	Sunday
27 December To 01 January 2022	Peroxisomes : biogenesis. Glyoxisomes: Structures, composition, functions in animals and plants and biogenesis.
02 January 2022	Sunday
03-08 January 2022	Nucleus: Nuclear Envelope- structure of nuclear pore complex; chromatin; molecular organization,
9 January 2022	Sunday
10-15 January 2022	DNA packaging in eukaryotes, euchromatin and heterochromatin Nucleolus and ribosome structure (brief).
16 January 2022	Sunday
17-22 January 2022	Vacuoles , Cell wall.
23 January 2021	Sunday
24-25 January 2022	The functions of membranes; Models of membrane structure.
26 January 2022	Holiday
27-29 January 2022	Cell Membrane : The fluidity of membranes; Membrane proteins and their functions; Cell Membrane : Carbohydrates in the membrane.
30 January 2022	Sunday
31 January 2022	Cell Membrane : Selective permeability of the membranes . Cell Membrane: Faces of the membranes.

Teacher's Signature

Dayanand college, Hisar

Department of Botany

Botany lesson plan: November 2021 to January 2022

Name of teacher :- Priti

Designation :- Assistant Professor

Class :- B.Sc. Final year

Section :- A1 Medical

Subject :- Botany

Paper Name and Paper Code :- Molecular Biology (BOT 502L)

Tentative Dates	Topics
10 November 2021 to 13 November 2021	General introduction of syllabus DNA: Miescher to Watson and Crick- historic perspective.
14 November 2021	Sunday
15 November to 18 November 2021	DNA: Griffith's and Avery's transformation experiments, Hershey-Chase bacteriophage experiment, DNA structure, types of DNA.
19 November 2021	Holiday
20 November 2021	Types of genetic material. DNA replication in Prokaryotes.
21 November 2021	Sunday
22 November to 27 November 2021	DNA replication in eukaryotes , bidirectional replication, semi-conservative .
28 November 2021	Sunday
29 November to 04 December 2021	DNA replication : semidiscontinuous RNA priming, replication of linear dsDNA, replicating the 5' end of linear chromosome including replication enzymes.
05 December 2021	Sunday
06-11 December 2021	RNA structure and types of RNA, General introduction to transcription . Class test Class Assignment
12 December 2021	Sunday
13-18 December 2021	Transcription in prokaryotes: Prokaryotic RNA polymerase, role of sigma factor, promoter
19 December 2021	Sunday
20 -24 December 2021	Transcription in prokaryotes: initiation, elongation and termination of RNA chains.
25 December 2021	Holiday
26 December 2021	Sunday
27 December To 01 January 2022	Transcription in eukaryotes: Eukaryotic RNA polymerases
02 January 2022	Sunday
03-08 January 2022	Genetic code and its characteristics, prokaryotic and eukaryotic translation: ribosome structure and assembly
9 January 2022	Sunday

10-15 January 2022	Prokaryotic and eukaryotic translation- charging of tRNA, aminoacyl tRNA synthetase, mechanism of initiation, elongation and termination of polypeptides
16 January 2022	Sunday
17-22 January 2022	Regulation of gene expression in prokaryotes: Operon concept (inducible and repressible system).
23 January 2021	Sunday
24-25 January 2022	Introduction to electrophoresis, agarose gel electrophoresis, acrylamide gel electrophoresis, Immuno-electrophoresis
26 January 2022	Holiday
27-29 January 2022	PCR and its variants, application of PCR, Principles of microscopy; Light and Phase contrast microscopy
30 January 2022	Sunday
31 January 2022	Electron microscopy (EM)- Scanning EM and Scanning Transmission EM (STEM).

Teacher's Signature

Dayanand college, Hisar

Department of Botany

Botany lesson plan: November 2021 to January 2022

Name of teacher :- Priti

Designation :- Assistant Professor

Class :- B.Sc. Final year

Section :- B Final

Subject :-

Botany

Paper Name and Paper Code :- Molecular Biology (BOT 502L)

Tentative Dates	Topics
10 November 2021 to 13	General introduction of syllabus

November 2021	DNA: Miescher to Watson and Crick- historic perspective.
14 November 2021	Sunday
15 November to 18 November 2021	DNA: Griffith's and Avery's transformation experiments, Hershey-Chase bacteriophage experiment, DNA structure, types of DNA.
19 November 2021	Holiday
20 November 2021	Types of genetic material. DNA replication in Prokaryotes.
21 November 2021	Sunday
22 November to 27 November 2021	DNA replication in eukaryotes , bidirectional replication, semi-conservative .
28 November 2021	Sunday
29 November to 04 December 2021	DNA replication : semidiscontinuous RNA priming, replication of linear dsDNA, replicating the 5' end of linear chromosome including replication enzymes.
05 December 2021	Sunday
06-11 December 2021	RNA structure and types of RNA, General introduction to transcription . Class test Class Assignment
12 December 2021	Sunday
13-18 December 2021	Transcription in prokaryotes: Prokaryotic RNA polymerase, role of sigma factor, promoter
19 December 2021	Sunday
20 -24 December 2021	Transcription in prokaryotes: initiation, elongation and termination of RNA chains.
25 December 2021	Holiday
26 December 2021	Sunday
27 December To 01 January 2022	Transcription in eukaryotes: Eukaryotic RNA polymerases
02 January 2022	Sunday
03-08 January 2022	Genetic code and its characteristics, prokaryotic and eukaryotic translation: ribosome structure and assembly
9 January 2022	Sunday
10-15 January 2022	Prokaryotic and eukaryotic translation- charging of tRNA, aminoacyl tRNA synthetase, mechanism of initiation, elongation and termination of polypeptides
16 January 2022	Sunday
17-22 January 2022	Regulation of gene expression in prokaryotes: Operon concept (inducible and repressible system).
23 January 2021	Sunday
24-25 January 2022	Introduction to electrophoresis, agarose gel electrophoresis, acrylamide gel electrophoresis, Immuno-electrophoresis
26 January 2022	Holiday
27-29 January 2022	PCR and its variants, application of PCR, Principles of microscopy; Light and Phase contrast microscopy
30 January 2022	Sunday
31 January 2022	Electron microscopy (EM)- Scanning EM and Scanning Transmission EM (STEM).

Dayanand college, Hisar

Department of Botany

Botany lesson plan : November 2021 to January 2022

Name of teacher :- Anju

Designation :- Assistant Professor

Class :- B.Sc .Final year

Section :-A2 Medical

Subject :- Botany

Paper Name and Paper Code :- Cell Biology (BOT 501L)

Tentative Dates	Topics
10 November 2021 to 13 November 2021	General introduction of syllabus The Cell Theory , Prokaryotic cells
14 November 2021	Sunday
15 November to 18 November 2021	Eukaryotic cells; Cell size, Cell shape; Eukaryotic Cell components.
19 November 2021	Holiday
20 November 2021	Cell Cycle: Overview of Cell cycle, Mitosis and Meiosis
21 November 2021	Sunday
22 November to 27 November 2021	Cell Cycle: Molecular controls , Mitochondria: Structure, marker enzymes, Symbiont hypothesis;
28 November 2021	Sunday
29 November to 04 December 2021	Mitochondria: composition; Semiautonomous nature; Proteins synthesized within mitochondria; mitochondrial DNA. Chloroplast Structure .
05 December 2021	Sunday
06-11 December 2021	Chloroplast : marker enzymes, composition; semiautonomous nature, chloroplast DNA. Class test Class Assignment
12 December 2021	Sunday
13-18 December 2021	Endoplasmic reticulum
19 December 2021	Sunday
22 -24 December 2021	Golgi body & Lysosomes : Structures and roles. Peroxisomes : Structures, composition, functions in animals and plants .

25 December 2021	Holiday
26 December 2021	Sunday
27 December To 01 January 2022	Peroxisomes : biogenesis. Glyoxisomes: Structures, composition, functions in animals and plants and biogenesis.
02 January 2022	Sunday
03-08 January 2022	Nucleus: Nuclear Envelope- structure of nuclear pore complex; chromatin; molecular organization,
9 January 2022	Sunday
10-15 January 2022	DNA packaging in eukaryotes, euchromatin and heterochromatin Nucleolus and ribosome structure (brief).
16 January 2022	Sunday
17-22 January 2022	Vacuoles , Cell wall.
23 January 2021	Sunday
24-25 January 2022	The functions of membranes; Models of membrane structure.
26 January 2022	Holiday
27-29 January 2022	Cell Membrane : The fluidity of membranes; Membrane proteins and their functions; Cell Membrane : Carbohydrates in the membrane.
30 January 2022	Sunday
31 January 2022	Cell Membrane : Selective permeability of the membranes . Cell Membrane: Faces of the membranes.

Teacher's Signature

Dayanand college, Hisar

Department of Botany

Botany lesson plan: November 2021 to January 2022

Name of teacher :- Anju

Designation :- Assistant Professor

Class :- B.Sc. Final year

Section :-A2 Medical

Subject :- Botany

Paper Name and Paper Code :- **Molecular Biology (BOT 502L)**

Tentative Dates	Topics
10 November 2021 to 13 November 2021	General introduction of syllabus DNA: Miescher to Watson and Crick- historic perspective.
14 November 2021	Sunday
15 November to 18 November 2021	DNA: Griffith's and Avery's transformation experiments, Hershey-Chase bacteriophage experiment, DNA structure, types of DNA.
19 November 2021	Holiday
20 November 2021	Types of genetic material. DNA replication in Prokaryotes.
21 November 2021	Sunday
22 November to 27 November 2021	DNA replication in eukaryotes , bidirectional replication, semi-conservative .
28 November 2021	Sunday
29 November to 04 December 2021	DNA replication : semidiscontinuous RNA priming, replication of linear dsDNA, replicating the 5' end of linear chromosome including replication enzymes.
05 December 2021	Sunday
06-11 December 2021	RNA structure and types of RNA, General introduction to transcription . Class test Class Assignment
12 December 2021	Sunday
13-18 December 2021	Transcription in prokaryotes: Prokaryotic RNA polymerase, role of sigma factor, promoter
19 December 2021	Sunday
20 -24 December 2021	Transcription in prokaryotes: initiation, elongation and termination of RNA chains.
25 December 2021	Holiday
26 December 2021	Sunday
27 December To 01 January 2022	Transcription in eukaryotes: Eukaryotic RNA polymerases
02 January 2022	Sunday
03-08 January 2022	Genetic code and its characteristics, prokaryotic and eukaryotic translation: ribosome structure and assembly
9 January 2022	Sunday
10-15 January 2022	Prokaryotic and eukaryotic translation- charging of tRNA, aminoacyl tRNA synthetase, mechanism of initiation, elongation and

	termination of polypeptides
16 January 2022	Sunday
17-22 January 2022	Regulation of gene expression in prokaryotes: Operon concept (inducible and repressible system).
23 January 2021	Sunday
24-25 January 2022	Introduction to electrophoresis, agarose gel electrophoresis, acrylamide gel electrophoresis, Immuno-electrophoresis
26 January 2022	Holiday
27-29 January 2022	PCR and its variants, application of PCR, Principles of microscopy; Light and Phase contrast microscopy
30 January 2022	Sunday
31 January 2022	Electron microscopy (EM)- Scanning EM and Scanning Transmission EM (STEM).

Teacher's Signature

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Dr. Mukesh
Designation :Asst. Professor
Class :B.A1st sem
Paper Code : BECO-101

Months	Topics
Nov. 2021	Economics: Definition, Nature, Scope The Economic Problem : Scarcity and Choice, Functions of an Economic System, Law of Demand, Elasticity of Demand: Concept, Types, Measurement, Determinants and Importance
Dec 2021	Concept of Utility, Cardinal Utility Analysis, Law of Diminishing Marginal Utility , Law of Equi- Marginal Utility, Derivation of demand curve, ordinal utility analyses, indifference curve Consumer Equilibrium Price, Income and Substitution Effects Consumer Surplu
Jan 2021	Production Function & Product Curves Law of Variable Proportions Iso-quant & Iso-Lines Returns to Scale Economies & Diseconomies of Scale Internal & External Supply Curve & Elasticity of Supply.
Feb 2021	Cost Analysis: Concepts of Cost, Short Period Costs, Long Period Costs Modern Theory of Costs. Revenue: Total, Average and Marginal Revenue Break Even Analysis and its Uses.

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Dr. Mukesh
Designation : Asst. Professor
Class : B.A. 3rd Sem
Paper Code : BECO-301

Months	Topics
Nov 2021	Nature and Scope of Macro Economics Difference between Micro and Macro Economics Importance of Macro Economics. Concepts, Measurement and limitations of National Income Statistics Circular flow of Income in Two, Three and Four Sector Economy
Dec 2021	Say's law of Market Classical Theory of Income and Employment Keynesian Theory of Income and Employment Principle of Effective Demand. Comparison between Classical and Keynesian Theory
Jan 2021	Consumption Function: Meaning and Technical Attributes. Significance of MPC Keynesian Psychological Law of Consumption and its Implications Short run & Long run Consumption Curves.
Feb 2021	Meaning of Capital and Investment Types of Investment Marginal Efficiency of Capital (MEC). Relation between MEC and MEI Factors affecting Inducement to Invest.

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (Odd Semester)

Name of Faculty member : Dr. Mukesh
Designation : Asst. Professor
Class : B.A. 5th sem
Paper Code : BECO-501

Months	Topics
Nov. 2021	Economic Growth and Economic Development, Development and Underdevelopment Approaches to Economic Development, Factors affecting Economic Growth
Dec. 2021	Poverty — Absolute and Relative; Measuring Poverty – Head Count and Poverty gap Vicious Circle of Poverty, Human Development Index (HDI) and other Indices of Development and Quality of life, Population Problem and Growth Pattern of Population in Developing Countries
Jan 2021	Traditional Measures of Economic Development – National Income, Per Capital Income UNDP Indices for Measurement of Development Classical Theory of Development- Adam Smith and Marx, Steady State Growth - An Introduction Growth models — Harrod and Domar
Feb 2021	Steady State Growth - An Introduction Growth models — Harrod and Domar Neo Classical Model of Growth- Robert Solow Cambridge Model of Growth – Joan Robinson

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member

: Dr. Mukesh

Designation

: Asst. Professor

Class

: B.com 1st Sem -D

Paper Code

: BCOM-102

Months	Topics
Nov.2021	Basic economic concepts: Nature and scope of microeconomics; circular flow of economic activity, positive and normative economics, deductive and inductive methods of analysis, assumptions of economics, production possibility frontier. Theory of demand, demand function, elasticity of demand, Theory of supply, Supply function; Elasticity of supply, the consumer surplus, shift in supply and demand curve and market/ price equilibrium, exceptions of law of demand and supply
Dec.2021	Theory of consumer behavior: Law of diminishing marginal utility, Cardinal utility approach-consumer equilibrium with single commodity and multi commodity model. Ordinal utility approach - Indifference curve, IC Map, characteristics, IC analysis, consumer equilibrium, price effect- Income and substitution and their analysis, derivative of demand curve through cardinal and ordinal utility approach
Jan.2022	Laws of production: Law of variable proportion, Returns to a scale, Production isoquants, marginal rate of technical substitution, optimal combination of resources, the expansion path, returns to scale using isoquants. Theory of Cost: Social and private costs of production, long run and short run costs of production. Traditional theory of cost, Modern theory of cost, Economies and diseconomies of scale. Concepts of revenue: marginal and Average. Relationship between average and marginal revenue
Feb. 2022	Market: price and output determination under perfect competition, determination of price and output under monopoly, price discrimination under monopoly, price and output under Monopolistic competition, Oligopoly characteristics, Cournot's model and Kinked demand curve model, cartel with profit maximization through market sharing and price leadership, sales

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : MR. DEEPAK
Designation :Asst. Professor
Class :B.A1st sem
Paper Code : BECO-101

Months	Topics
Aug2022	Economics: Definition, Nature, Scope The Economic Problem : Scarcity and Choice, Functions of an Economic System, Law of Demand, Elasticity of Demand: Concept, Types, Measurement, Determinants and Importance
Sep2022	Concept of Utility, Cardinal Utility Analysis, Law of Diminishing Marginal Utility , Law of Equi- Marginal Utility, Derivation of demand curve, ordinal utility analyses, indifference curve Consumer Equilibrium Price, Income and Substitution Effects Consumer Surplu
Oct 2022	Production Function & Product Curves Law of Variable Proportions Iso-quants & Iso-Lines Returns to Scale Economies & Diseconomies of Scale Internal & External Supply Curve & Elasticity of Supply.
Nov2022	Cost Analysis: Concepts of Cost, Short Period Costs, Long Period Costs Modern Theory of Costs. Revenue: Total, Average and Marginal Revenue Break Even Analysis and its Uses.
June.2022	Revision

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : MR. DEEPAK
Designation : Asst. Professor
Class : B.A. 3rd Sem
Paper Code : BECO-301

Months	Topics
Aug2022	Nature and Scope of Macro Economics Difference between Micro and Macro Economics Importance of Macro Economics. Concepts, Measurement and limitations of National Income Statistics Circular flow of Income in Two, Three and Four Sector Economy
Sep2022	Say's law of Market Classical Theory of Income and Employment Keynesian Theory of Income and Employment Principle of Effective Demand. Comparison between Classical and Keynesian Theory
Oct2022	Consumption Function: Meaning and Technical Attributes. Significance of MPC Keynesian Psychological Law of Consumption and its Implications Short run & Long run Consumption Curves.
Nov2022	Meaning of Capital and Investment Types of Investment Marginal Efficiency of Capital (MEC). Relation between MEC and MEI Factors affecting Inducement to Invest.
Dec.2022	Revision

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (Odd Semester)

Name of Faculty member : MR. DEEPAK
Designation : Asst. Professor
Class : M.COM (pre)
Paper Code : MC-103

Months	Topics
Nov.2021	Theory of demand and consumer equilibrium-utility and indifference curve approach; Demand function Elasticity of demand and its significance in managerial decision-making; Demand forecasting and its techniques Theory of Cost: Types of cost: production cost, selling cost, R&D Cost, short run and long run cost curves, relation between cost and revenue, break-even point Presentation-1Economies and diseconomies of scale and scope; Production function : Short term and long run production function
Dec.2021	law of variable proportion and return to scale, Iso-quant curves. Market Structure and Competition: Price and output determination under perfect competition 2nd presentation ,.monopoly, monopolistic competition and oligopoly.
Jan.2022	Modern theories of firm: Bamoul's theory of sales maximization, Managerial Theory Behavioral Theory; National Income: Concept and Measurement Problem Solving Classes, Query Session, Revision, UT, ASSSIGNMENT

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member

: MR. DEEPAK

Designation

:Asst. Professor

Class

: B.com 1st Sem -C

Paper Code

: BCOM-102

Months	Topics
Nov.2021	Basic economic concepts: Nature and scope of microeconomics; circular flow of economic activity, positive and normative economics, deductive and inductive methods of analysis, assumptions of economics, production possibility frontier. Theory of demand, demand function, elasticity of demand, Theory of supply, Supply function; Elasticity of supply, the consumer surplus, shift in supply and demand curve and market/ price equilibrium, exceptions of law of demand and supply
Dec.2021	Theory of consumer behavior: Law of diminishing marginal utility, Cardinal utility approach-consumer equilibrium with single commodity and multi commodity model. Ordinal utility approach - Indifference curve, IC Map, characteristics, IC analysis, consumer equilibrium, price effect- Income and substitution and their analysis, derivative of demand curve through cardinal and ordinal utility approach
Jan.2022	Laws of production: Law of variable proportion, Returns to a scale, Production isoquants, marginal rate of technical substitution, optimal combination of resources, the expansion path, returns to scale using isoquants. Theory of Cost: Social and private costs of production, long run and short run costs of production. Traditional theory of cost, Modern theory of cost, Economies and diseconomies of scale. Concepts of revenue: marginal and Average. Relationship between average and marginal revenue
Feb. 2022	Market: price and output determination under perfect competition, determination of price and output under monopoly, price discrimination under monopoly, price and output under Monopolistic competition, Oligopoly characteristics, Cournot's model and Kinked demand curve model, cartel with profit maximization through market sharing and price leadership, sales maximization

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Mr. Pawan
Designation : Asst. Professor
Class : B.com 1st Sem -A
Paper Code : BCOM-102

Months	Topics
Nov.2021	Basic economic concepts: Nature and scope of microeconomics; circular flow of economic activity, positive and normative economics, deductive and inductive methods of analysis, assumptions of economics, production possibility frontier. Theory of demand, demand function, elasticity of demand, Theory of supply, Supply function; Elasticity of supply, the consumer surplus, shift in supply and demand curve and market/ price equilibrium, exceptions of law of demand and supply
Dec.2021	Theory of consumer behavior: Law of diminishing marginal utility, Cardinal utility approach-consumer equilibrium with single commodity and multi commodity model. Ordinal utility approach - Indifference curve, IC Map, characteristics, IC analysis, consumer equilibrium, price effect- Income and substitution and their analysis, derivative of demand curve through cardinal and ordinal utility approach
Jan.2022	Laws of production: Law of variable proportion, Returns to a scale, Production isoquants, marginal rate of technical substitution, optimal combination of resources, the expansion path, returns to scale using isoquants. Theory of Cost: Social and private costs of production, long run and short run costs of production. Traditional theory of cost, Modern theory of cost, Economies and diseconomies of scale. Concepts of revenue: marginal and Average. Relationship between average and marginal revenue
Feb. 2022	Market: price and output determination under perfect competition, determination of price and output under monopoly, price discrimination under monopoly, price and output under Monopolistic competition, Oligopoly characteristics, Cournot's model and Kinked demand curve model, cartel with profit maximization through market sharing and price leadership, sales maximization

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Mr. Pawan
Designation : Asst. Professor
Class : B.com 1st Sem- B
Paper Code : BCOM-102

Months	Topics
Nov.2021	Basic economic concepts: Nature and scope of microeconomics; circular flow of economic activity, positive and normative economics, deductive and inductive methods of analysis, assumptions of economics, production possibility frontier. Theory of demand, demand function, elasticity of demand, Theory of supply, Supply function; Elasticity of supply, the consumer surplus, shift in supply and demand curve and market/ price equilibrium, exceptions of law of demand and supply
Dec.2021	Theory of consumer behavior: Law of diminishing marginal utility, Cardinal utility approach-consumer equilibrium with single commodity and multi commodity model. Ordinal utility approach - Indifference curve, IC Map, characteristics, IC analysis, consumer equilibrium, price effect- Income and substitution and their analysis, derivative of demand curve through cardinal and ordinal utility approach
Jan.2022	Laws of production: Law of variable proportion, Returns to a scale, Production isoquants, marginal rate of technical substitution, optimal combination of resources, the expansion path, returns to scale using isoquants. Theory of Cost: Social and private costs of production, long run and short run costs of production. Traditional theory of cost, Modern theory of cost, Economies and diseconomies of scale. Concepts of revenue: marginal and Average. Relationship between average and marginal revenue
Feb. 2022	Market: price and output determination under perfect competition, determination of price and output under monopoly, price discrimination under monopoly, price and output under Monopolistic competition, Oligopoly characteristics, Cournot's model and Kinked demand curve model, cartel with profit maximization through market sharing and price leadership, sales maximization

(Teacher's Signature)

**Lesson Plan for Session 2021-2022
(Odd Semester)**

Name of Faculty Member : Pawan kumar
Designation : Assistant Professor
Class :B.B.A. 1 sem : Micro Economics
Paper Code : BBA-111

Month	Topics
Nov, 2021	Nature and scope of micro economics, determinants of demand and law of demand, price, cross and income elasticity, law of supply, elasticity of supply, competitive equilibrium; consumer's equilibrium- utility and indifference curve approaches
Dec, 2021	Short run and long run production functions, laws of returns; optimal input combination; Classification of costs; short run and long run cost curves and their interrelationship; internal and external economies of scale, revenue curves; optimum size of the firm; factors affecting the optimum size, location of firms
Jan , 2022	Equilibrium of the firm and industry – perfect competition, monopoly, monopolistic competition, discriminating monopoly, aspects of non-price competition; oligopolistic behaviour
Feb , 2022	Characteristics of various factors of production; marginal productivity theory and modern theory of distribution; determination of rent; quasi rent; alternative theories of interest and wages

DAYANAND COLLEGE, HISAR

Lesson Plan for Session 2021-2022 (Odd Semester)

Name of Faculty Member : Pawan kumar
Designation : Assistant Professor
Class :B.B.A. 3rd sem **Indian business environment**
Paper Code : BBA-211

Month	Topics
NOV, 2021	Indian economic system; growth of public and private corporate sector; social responsibility Nature, components and determinants of business environment; basic nature of of business; economic reforms since 1991 – an overview
DEC, 2021	Review of industrial policy developments and pattern of industrial growth since 1991; industrial licensing policy; public sector reforms; privatization and liberalization trends; growth and problems of SMEs; industrial sickness
JAN, 2022	Development banking: an overview and current developments; regulation of stock exchanges and the role of SEBI; banking sector reforms; challenges facing public sector banks; growth and changing structure of non-bank financial institutions
FEB, 2022	Trend and pattern of India's foreign trade and balance of payments; latest foreign trade policy; India's overseas investments; policy towards foreign direct investment; globalization trends in Indian economy; role of MNCs; impact of multilateral institutions (IMF, World Bank and WTO) on Indian business environment
MARCH, 2022	REVISION.

Lesson Plan (2021-22) Odd Semester

Name of Teacher: DEEPENDER

Class and Section: Bachelor of Computer Applications I Year 1stSem

Subject and Code: Computer & Programming Fundamentals BCA-PC(L)-113

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topics Covered
Week 2	Computer Fundamentals: Definition, Block Diagram along with its components, characteristics and classification of computers, Applications of computer in various fields.
Week 3	Memory: Concept of primary and secondary memory, RAM, ROM, types of ROM, flash memory, Secondary storage devices, Sequential and direct access devices, viz. magnetic tape, magnetic disk, CD, DVD.
Week 4	Computer hardware & software: I/O Devices, definition of software, relationship b/w hardware and software, types of software.
Assignment 1	
December 2021	
	Topics Covered
Week 1	Overview of operating system: Definition, functions of operating system.
Week 2	Concept of multiprogramming, multi-tasking, multi-threading, multi-processing, time-sharing, real time, single user & multi-user operating system.
Week 3	Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation.
Week 4	Techniques of problem solving: Flowcharting, algorithm, pseudo code, decision table, Structured programming concepts.
Test	
January 2021	
	Topics Covered
Week 1	Searching, Sorting & Merging: Linear and binary searching, Bubble, Selection and Insertion sorting.
Week 2	Computer Languages: Analogy with natural language, machine language, assembly language, high- level language, compiler, interpreter, assembler, characteristics of a good programming language.
Week 3	Computer Virus: Definition, Types of viruses, Characteristics of viruses, anti-virus software.
Week 4	Programming methodologies viz. top-down and bottom-up programming.
Assignment 2	

Head of Department

Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: Manisha Rani

Class and Section: Bachelor of Computer Application (BCA) –I Year 1st Sem.

Subject: PC Software

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	MS Windows: Operating system- Definition and functions, basics of Windows, Basic components of windows, icons, types of icons, taskbar, activating windows, using desktop
Week 3	Title bar, running applications, exploring computer, managing files and folders, copying and moving files and folders.
Week 4	Control panel- display properties , Adding and removing software and hardware, setting date and time, screen saver and appearance.
Assignment	
December 2021	
	Topic Covered
Week 1	Documentation using MS-Word- Introduction to Office Automation, Creating and Editing Document, Formatting Document, Auto-text, Autocorrect, Spelling and Grammar Tool, Document Dictionary
Week 2	Page Formatting, Bookmark. Advance Features of MS-Word-Mail Merge, Macros, Tables, Printing, Styles, linking and embedding objects, Template.
Week 3	Electronic Spreadsheet using MS-Excel- Introduction to MS-Excel, Creating and Editing Worksheet, Formatting and Essential Operations
Week 4	Formulas and Functions, Charts, Advance features of MS-Excel-Pivot table & Pivot Chart, Linking and Consolidation
Test	
January 2021	
	Topic Covered
Week 1	Database Management using Excel- Sorting, Filtering, Table, Validation.
Week 2	Presentation using MS- PowerPoint: Presentations, Creating, Manipulating & Enhancing Slides, Organizational Charts
Week 3	Excel Charts, Word Art, Layering art objects, Animations and Sounds
Week 4	Inserting Animated Pictures or Accessing through object, Inserting Recorded Sound Effects or In-Built- Sound Effect.
Assignment	

Head of Department

Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: Meenakshi Sukhija

Class and Section: Bachelor of Computer Application (BCA) –I Year 1st Sem.

Subject: PROBLEM SOLVING THROUGH 'C'

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	History of C, Importance of C, Structure of a C Program, C character set, identifiers and keywords, Data types, Constants and Variables, Assignment statement, Symbolic constant.
Week 3	Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators.
Week 4	Arithmetic expressions, evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity.
Assignment-1	
December 2021	
	Topic Covered
Week 1	Decision making : Decision making with IF statement, IF-ELSE statement
Week 2	Nested IF statement, ELSE-IF ladder, switches statement, go to statement. Looping: For, while, and do-while loop, jumps in loops, break, continue statement.
Week 3	Functions: Definition, prototype, passing parameters, recursion. Arrays: Definition, types, initialization, processing an array, Passing arrays to function
Week 4	String & Arrays: Declaration and initialization of string, String I/O, Array of strings, String manipulation function: String Length, copy, compare, concatenate, search for a substring.
Test	
January 2021	
	Topic Covered
Week 1	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.
Week 2	Pointers: Introduction, Pointer variables, Pointer operators, Pointer assignment.
Week 3	Pointer conversion, Pointer arithmetic, Pointer comparison, Pointer and arrays.
Week 4	Pointer and functions, Pointers and strings, Dynamic allocation using pointers.
Assignment-2	

Head of Department

Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: Monika

Class and Section: Bachelor of Computer Applications II Year 3rd Sem.

Subject: Object Oriented Programming Using 'C++' (BCA-PC(L)-231)

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Introduction to C++, C++ Standard Library, Basics of a Typical C++ Environment, Header Files and Namespaces, Library files. Introduction to Objects and Object Oriented Programming, Encapsulation, Access Modifiers; Controlling access to a class
Week 3	method or variable (public, private, protected, package), Other Modifiers, Polymorphism; overloading, Inheritance, Overriding Methods, Abstract classes, Reusability
Week 4	Classes and Data Abstraction: Introduction, Structure Definitions, Accessing Members of Structure, Class Scope and Accessing Class Members, Initializing Class Objects, Constructor, Using Default Arguments with Constructor, Using Destructor
Assignment	
December 2021	
	Topic Covered
Week 1	Classes: Const (Constant) Object and Const Member Function, Object as Member of Classes, Friend Function and Friend class, Function Overloading
Week 2	Operator Overloading: Introduction, Fundamentals of Operator Overloading, Restrictions on Operator Overloading, Operator Functions as Class Members vs. as Friend Function
Week 3	Overloading, <> Overloading Unary Operators, Overloading Binary Operators
Week 4	Inheritance: Introduction, Inheritance: Base Classes and Derived Classes, Protected Members, Casting Base-Class Pointers to Derived-Class Pointer, Using Member Functions, Overriding Base-class members in a Derived class, Public, Protected, and Private Inheritance
Test	
January 2021	
	Topic Covered
Week 1	Using Constructors and Destructors in Derived Classes, Implicit Derived-Class Object to Base-Class Object Conversion
Week 2	Virtual Functions and Polymorphism: Introduction to Virtual Functions, Abstract Base Classes and Concrete Classes, Polymorphism, New Classes and Dynamic Binding, Virtual Destructor, Polymorphism, Dynamic Binding
Week 3	File and I/O Streams: Files and Streams, Creating a Sequential Access File, Reading Data From A Sequential Access File, Updating Sequential Access File, Random Access File, Creating A Random Access File, Writing Data Randomly to a Random Access File, Reading Data Sequential from a Random Access File
Week 4	Revision
Assignment	

Head of Department

Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: **Kanika Khanna**

Class and Section: **Bachelor of Computer Application (BCA) –II Year 3rd Sem.**

Subject: **Web Designing (BCA-PC(L)-232)**

Lesson Plan: **from Nov 2021 to Jan 2022**

November 2021	
	Topic Covered
Week 2	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic features.
Week 3	Web Browsers; Web servers; Hypertext Transfer Protocol; URLs; Searching and Web Casting Techniques.
Week 4	Search Engines and Search Tools, Web Publishing: Hosting your Site; Internet Services provider.
Assignment	
December 2021	
	Topic Covered
Week 1	Planning and designing your Web Site; Steps for developing Your site; Choosing the contents; Home page; Domain Names.
Week 2	Web Development: Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML command Tags.
Week 3	Creating Links; Headers; Text styles; Text Structuring; Text colors and Background; Formatting text; Page layouts.
Week 4	Images; Ordered and Unordered lists; Inserting Graphics; Table Creation and Layouts.
Test	
January 2021	
	Topic Covered
Week 1	Frame Creation and layouts; Working with Forms and menus.
Week 2	Working with Radio buttons; Checks Boxes; Text Boxes.
Week 3	Revision
Week 4	Revision
Assignment	

Head of Department

Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: Monika

Class and Section: Bachelor of Computer Applications II Year 3rd Sem.

Subject: Digital Electronics (BCA-PC(L)-233)

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Information Representation: Number System, Binary Arithmetic Operations, Fixed-point and Floating point representation of numbers, BCD Codes, Error detecting and correcting codes, Character Representation-ASCII, EBCDIC, Unicode
Week 3	Binary Logic, Boolean Algebra, Boolean Theorems, Boolean Functions Truth Tables, Canonical and Standard Forms of Boolean Functions
Week 4	Simplification of Boolean Functions-Venn Diagram, Karnaugh map
Assignment	
December 2021	
	Topic Covered
Week 1	Digital Logic: Basic Gates-AND, OR, NOT, Universal Gates-NAND, NOR,
Week 2	Others Gates-XOR, XNOR etc. NAND,NOR,AND-OR -INVERT, implementations of digital circuits, Combinational Logic-Characteristics, Design Procedures
Week 3	Analysis procedures, Multilevel NAND and NOR circuits
Week 4	Combinational Circuits: Half-Adders, Full-Adder, Full-Subtractor, Half-Subtractor
Test	
January 2021	
	Topic Covered
Week 1	Encoders, Decoders, Multiplexers, Demultiplexers, Comparators, Code Converters BCD to Seven Segment Decoder.
Week 2	Sequential Logic: Characteristics, Flip-Flops, Clocked RS,D type, JK, T type and Master Slave flip-flops,
Week 3	State table, state diagram and state equations, Flip-Flops excitation tables.
Week 4	Revision
Assignment	

Head of Department

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Lesson Plan

Name of Assistant/Associate Professor: Kanika Yadav

Class and Section: Bachelor of Computer Application (BCA) –II Year 3RD Sem.

Subject: INTRODUCTION TO DATABASE SYSTEMS (BCA-PC(L)-234)

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Basic concepts-Data, Information, Records and Files. Traditional File Based System. Limitation of file based approach
Week 3	Database approach-Characteristics of file based approach, DBMS, Components of DBMS environment
Week 4	DBMS functions and Components, Advantages and disadvantages of DBMS
Assignment	
December 2021	
	Topic Covered
Week 1	Roles in the Database environment- Data DBA, Database Designers, Application Developers and Users.
Week 2	Database system architecture-Three levels of Architecture, External, internal and conceptual levels.
Week 3	Mapping and Instances. Logical and Physical data independence. Classification of Database Management system, Centralized DBMS
Week 4	Client Server Architecture to DBMS, Data Models: Record Based, Object Based and Physical data model. Conceptual Modelling.
Test	
January 2021	
	Topic Covered
Week 1	Entity Relationship Model-Entity types, Entity sets, Attributes relationship Types, Relationship Instances
Week 2	ER Diagrams, Basic concepts of Hierarchical and Network Data Models
Week 3	Revision
Week 4	Revision
Assignment	

Head of Department

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Lesson Plan (2021-22) Odd Semester

Name of Teacher: DEEPENDER

Class and Section: Bachelor of Computer Applications 2nd Year 3rd Sem

Subject and Code: Advanced Data Structure BCA-PC(L)-235

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topics Covered
Week 2	Tree: Introduction, Definition, Representing Binary tree in memory.
Week 3	Traversing binary trees, Traversal algorithm using stacks, Header nodes, Threads, Binary search trees- Searching, Insertion and Deletion.
Week 4	AVL search trees: Introduction, Insertion and Deletion
Assignment 1	
December 2021	
	Topics Covered
Week 1	m-way search tree: searching, insertion and deletion
Week 2	B-tree: Insertion and deletion. Hashing: Introduction, Collision resolution.
Week 3	Graphs: Introduction, Graph theory terminology, Sequential and linked representation of graphs.
Week 4	Warshall's algorithm for shortest path.
Test	
January 2021	
	Topics Covered
Week 1	Dijkstra algorithm for shortest path.
Week 2	Operations on graphs, Traversal of graph.
Week 3	Sorting: Internal & external sorting, Radix sort, Quick sort.
Week 4	Heap sort, Merge sort, Comparison of various sorting and searching algorithms on the basis of their complexity.
Assignment 2	

Head of Department

Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: Jyotsana

Class and Section: Bachelor of Computer Science (BCA) 3rd year (5th Semester).

Subject: Artificial Intelligence

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Overview of A.I, Introduction to AI, AI and Its related field, AI techniques, Criteria for Success,
Week 3	Expert System: Introduction, Representing Using Domain Specific Knowledge,
Week 4	Expert System Shells, LISP and Other AI Programming Language. Space and Search, Defining the problem as a State space search, Production System and its Characteristic Problems
Assignment	
December 2021	
	Topic Covered
Week 1	Issues in the design of the search problem, Heuristic search technique, problem reduction, constraint satisfaction
Week 2	Knowledge representation, Definition and Importance of Knowledge, Representation
Week 3	Various approaches used in Knowledge representation , Issues in Knowledge representation
Week 4	Using Predicate Logic, Representing Simple Facts in Logic, representing Instances and is-a relationship, Computable Function and Predicate
Assignment and test for Practice	
January 2022	
	Topic Covered
Week 1	Natural Language processing, Introduction syntactic processing, Semantic processing, Discourse and Pragmatic Processing, Learning: Introduction Learning, Rote Learning,
Week 2	Learning by taking advice, Learning in Problem solving, Learning from example- induction, Explanation based Learning
Week 3	Revision
Week 4	Revision

Head of Department

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Lesson Plan

Name of Assistant/Associate Professor: Sonu Devi

Class and Section: Bachelor of Computer Application (BCA) –3rd Year 5th Sem.

Subject: Microprocessor

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Introduction to microprocessor, microcontroller and microcomputers, study of 8085 8 bit microprocessor.
Week 3	Pin out and its internal architecture of 8085, addressing modes, 8085 complete instruction set and timing, Arithmetic and logic instructions.
Week 4	Branch instructions, programming techniques- looping, counting, indexing, stacks and subroutines, code conversion, BCD arithmetic.
Assignment	
December 2021	
	Topic Covered
Week 1	Counters and time delays using programming, software development system and assemblers
Week 2	Writing complete program for 8085, Basic interfacing concepts, interfacing memory, Interfacing keyboard and output displays.
Week 3	Memory mapped and isolated I/O, interrupts and their processing, 8259, interrupt interface circuits using 8259.
Week 4	General purpose programmable peripheral devices- 8255, 8253 programmable interval timer, 8257 DMA controller.
Test	
January 2022	
	Topic Covered
Week 1	Serial I/O and data communication, RS-232C standard, serial I/O lines, 8251A Programmable communications interface.
Week 2	Introduction of 8086/8088 microprocessor, pin out, architecture, segmented memory, timing diagram.
Week 3	Addressing modes, instruction set, comparison of 8085, 8086, 8088 microprocessor.
Week 4	Revision
Assignment	

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Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: Shalu Rani

Class and Section: Bachelor of Computer Application (BCA) –3rd Year 5th Sem.

Subject: Software Engineering

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Software Engineering Introduction, Software Crisis-Problems and Causes, Software Life Cycle Model: Waterfall, Prototype, Evolutionary and Spiral Models
Week 3	Software Project Planning: Cost Estimation, COCOMO model, Putnam Resource Allocation Model, Risk Management
Week 4	Project Scheduling, Personnel Planning, Team structure, Software Configuration Management, Quality Assurance, Project Monitoring
Assignment	
December 2021	
	Topic Covered
Week 1	Software Requirement Analysis and Specifications: Structured Analysis, Data Flow Diagram, Data Dictionaries, ER Diagrams
Week 2	Software Requirement and Specifications, Behavioural and non behavioural requirements, Software Design: Design Fundamentals, Problem Partitioning and abstraction, design methodology
Week 3	Cohesion & Coupling, Classification of Cohesiveness & Coupling, Coding: Programming Style, Structured Programming, Software Testing: Testing Fundamentals
Week 4	Functional Testing: Boundary Value Analysis, Equivalence Class Partitioning, Decision Table Testing
Test	
January 2021	
	Topic Covered
Week 1	Cause Effect Graphing , Structural Testing : Control flow based and data flow based testing, loop testing
Week 2	Software Testing strategies: Unit Testing, Integration Testing, Validation Testing, System Testing
Week 3	Alpha and Beta Testing. Software Maintenance: Types of Maintenance, Maintenance Process maintenance characteristics.
Week 4	Revision
Assignment	

Head of Department

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Lesson Plan (2021-22) Odd Semester

Name of Teacher: DEEPENDER

Class and Section: Bachelor of Computer Applications 3rd Year 5thSem

Subject and Code: Computer Networks BCA-354

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topics Covered
Week 2	Introduction to Computer Communications and Networking Technologies, Uses of Computer Networks, Network Devices, Nodes, and Hosts, Types of Computer Networks and their Topologies.
Week 3	Network Software: Network Design issues and Protocols; Connection-Oriented and Connectionless Services; Network Applications and Application Protocols; Computer Communications
Week 4	Networking Models: Decentralized and Centralized Systems, Distributed Systems, Client/Server Model; Network Architecture and the OSI Reference Model, Example Network: The Internet, X.25, Frame relay.
Assignment 1	
December 2021	
	Topics Covered
Week 1	Analog and Digital Communications Concepts: Representing Data as Analog Signals
Week 2	Representing Data as Digital Signals, Data Rate and Bandwidth, Capacity, Baud Rate; Digital Carrier Systems
Week 3	Guided and Wireless Transmission Media; Communication Satellites; Switching and Multiplexing; Dial Up Networking; Analog Modem Concepts; DSL Service
Week 4	Data Link Layer: Framing, Flow Control, Error Control, Error Detection and Correction, Sliding Window Protocols, Media Access Control, Random Access Protocols.
Test	
January 2021	
	Topics Covered
Week 1	Token Passing Protocols, Token Ring, Introduction to LAN technologies: Ethernet, switched Ethernet, VLAN, Fast Ethernet, gigabit Ethernet, token ring, FDDI, Wireless LANs; Bluetooth.
Week 2	Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards, Bridge, Switches, Routers, Gateways.
Week 3	Routing Concepts: Virtual Circuits and Datagrams, Routing Algorithms, Flooding, Shortest Path Routing, Distance Vector Routing, Link State Routing, Hierarchical Routing.
Week 4	Congestion Control Algorithms, Internetworking.
Assignment 2	

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Lesson Plan

Name of Assistant/Associate Professor: Jyotsana

Class and Section: Bachelor of Computer Science (BCA)3rd year (5th Semester).

Subject: Web Designing-II

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	JavaScript Features, Advantages of JavaScript, Limitations of JavaScript, Syntax of JavaScript, Different places Where JavaScript can be Placed in HTML, JavaScript Dialog boxes or Popup Boxes, Data Types and Literal
Week 3	Variables, Declaration of Variables, JavaScript Operators, Conditional statements, Iterative Structure, Break Statement, Continue Statement, Functions,. Arrays, JavaScript Objects, JavaScript Events Handling
Week 4	Introduction of CSS, Features, Creating Style Sheet, Kinds of Selector, Grouping, Adding Style Sheet to HTML Document, Common Tasks with CSS, Advantages of CSS, Disadvantages of CSS
Assignment	
December 2021	
	Topic Covered
Week 1	Introduction & Features of DHTML, Objects, Events, Marquee, Mouseover, Filters and Transitions, Adding Links, Tables, Forms, Images
Week 2	Introduction of XML, Features, XML Support and Usage, Structure of XML, Rules in XML,
Week 3	DTD, Creating DTD Specifications, Flow Objects, Working with Text and Fonts, Color and Background Properties,
Week 4	Features of ASP, VBScript, Macromedia Flash, Macromedia Dreamweaver, PHP.
Assignment and test for Practice	
January 2022	
	Topic Covered
Week 1	Introduction and Features of Adobe Photoshop, Microsoft FrontPage
Week 2	Introduction Features; Title bar, Menu Bar, Front Page Tool Bar, Style, Font Face and Formatting Bar, Scroll Bars.
Week 3	Revision
Week 4	Revision

Head of Department

Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: Kavita Rani

Class and Section: BBA FINAL Year 5th Sem.

Subject: COMPUTER NETWORK AND INTERNET

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Introduction to Network, Advantages and Disadvantages of computer Network , Types of Network, LAN, MAN, WAN
Week 3	Network Topologies : Star Topology, Bus Topology, Ring Topology, Mesh Topology, Hybrid Topology, Fully Associated Topology, Hybrid Topology
Week 4	Analog Signal, Digital Signal, Analog And Digital Signal Transmission, Direction of Transmission, Simplex Mode, Half Duplex Mode, Full Duplex Mode
Assignment	
December 2021	
	Topic Covered
Week 1	OSI Model, Layer of OSI Model, TCP/IP Model, Protocols and Their Classification, HTTP,FTP, UDP,SNMP, URL, DNS.
Week 2	Repeater, Hub, Bridge, Gate way, Routers, ISP (Internet Service Provider) Bit Rate, Boud Rate, Switching, Circuit Switching, Message Switching, Packet Switching .
Week 3	Cryptography: what is Cryptography, Types of Cryptography, Symmetric and Asymmetric Cryptography, Encryption Algorithm, Decryption Algorithm, Firewalls, Types Of Firewalls.
Week 4	Overview Of Internet, Search Engine, Searching Web Using Searching Web Engine, Audio On Internet, News Group, Subscribing To News groups.
Test	
January 2021	
	Topic Covered
Week 1	Intranet Concepts and Architecture, Network Security : Introduction, Security Issue, Difference Between TCP and UDP, Authentication.
Week 2	Intranet Security Design, Fundamental of TCP/IP, Intranet as a business Tool, Future of Intranet, Protocols of Communication.
Week 3	Internet Protocol, IP(IPv4) Services, Structure of IP Frame Header, Flow Control.
Week 4	Rivision.
Assignment	

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Lesson Plan

Name of Assistant/Associate Professor: Reetu Kumari

Class and Section: BBA 2nd year (3rd Semester).

Subject: DBMS

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Data, Information, Types of data, Data v/s Information, Hierarchy of data, Data Dictionary, Database management System – Introduction
Week 3	DBMS advantages, File oriented System, Level of Database Definitions: Schema, Sub schemas, Physical, Instances, Data Mapping
Week 4	File based System v/s Database Management System, Database Administrator, DBA Functions, DBA responsibilities
Assignment and test for Practice	
December 2021	
	Topic Covered
Week 1	Data Independence, Data base Management system – Introduction and Architecture, Distributed Database Management System
Week 2	Factors encouraging Distributed DBMS, Advantages and Adversities of DDBMS, Database Recovery
Week 3	Database Security- Introduction, Various Security Issues, Types of threats, Role of DBA in Database security, Techniques used for DB security
Week 4	Firewalls, Data ware house
Assignment and test for Practice	
January 2022	
	Topic Covered
Week 1	Data Mining, Emerging Database technologies, Introduction to internet
Week 2	Digital Library, Multimedia Database, Mobile Database, Spatial Database
Week 3	Revision
Week 4	Revision and Tests

Head of Department

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Lesson Plan

Name of Assistant/Associate Professor: Meenu Narang

Class and Section: BAMC –I Year 1st Sem.

Subject: Computer Applications

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 3	Origin And Growth of computers, Various Parts and Functioning of Computer, Generations Of Computers
Week 4	Computer Hardware And Software ,Storage
Assignment	
December 2021	
	Topic Covered
Week 1	Introductions Of Operating Systems, IOS, Android
Week 2	MS Word
Week 3	MS Excel
Week 4	MS Power point
Test	
January 2021	
	Topic Covered
Week 1	Word Processing-English
Week 2	Word Processing-Hindi
Week 3	Introduction to Quark Express/Pagemaker
Week 4	Introduction to PageMaker/Quark Express
Assignment	

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Lesson Plan

Name of Assistant/Associate Professor: Kanika Khanna

Class and Section: Bachelor of Science (Computer Science) III Year 5th Sem.

Subject: Data Analytics CCsL-504 (Data Analytics)

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Introduction to Data Analytics, Business Intelligence (BI) for better decisions, Decision types, BI tools, BI skills, BI applications. Introduction to Data warehousing (DW), Design considerations for DW, DW development approaches, DW architecture
Week 3	Introduction to Data mining, Data cleaning and preparation, outputs of Datamining, evaluation of data mining results, Data Mining Techniques
Week 4	Introduction to Decision tree, Decision tree problem, Decision tree construction, Lessons from constructing trees, Decision tree algorithms.
Assignment	
December 2021	
	Topic Covered
Week 1	Introduction, Correlations and Relationships, Visual Look at Relationships, Logistic regression, Advantages and disadvantages of regression models.
Week 2	Introduction, business applications of ANN, Design principles of an ANN, Representation of a neural network, Architecting a neural network, Developing an ANN, Advantages and disadvantages of using ANN.
Week 3	Introduction, Applications of cluster analysis, Definition of a cluster, Representing clusters, Clustering techniques, K-means algorithm for clustering, Selecting the number of clusters
Week 4	Introduction, Business applications of association rules, Representing association rules, Algorithms for association rule, Apriori algorithm, Creating association rules.
Test	
January 2021	
	Topic Covered
Week 1	Introduction, Web content mining, Web structure mining, Web usage mining, Web mining algorithms.
Week 2	Introduction, Probability, Naïve base model, Text classification example, Introduction to SVM model, The kernel method.
Week 3	Introduction, Defining big data, Big data landscape, Business implications of big data, Technology implications of big data, Big data technologies, Management of big data.
Week 4	Revision
Assignment	

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Lesson Plan (2021-22) Odd Semester

Name of Teacher: Bharti Duhan

Class and Section: Bachelor of Science (Computer Science) 3rd Year 5th Sem (Section-F)

Subject and Code: Cloud Computing (CCsL 505)

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topics Covered
Week 2	Cloud Computing: Introduction to client server computing, Peer to Peer computing,
Week 3	Distributed computing, collaborative computing and cloud computing,
Week 4	Importance of cloud computing in current era, Characteristics, advantages and disadvantages of cloud computing.
Assignment 1	
December 2021	
	Topics Covered
Week 1	Cloud Services: Functioning of cloud computing, Classification of cloud based on services: Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS).
Week 2	Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS): Definition, characteristics and their benefits.
Week 3	Cloud Architecture: Cloud computing Logical and Service architecture, Types of clouds Private cloud, Public cloud, and Hybrid cloud.
Week 4	Comparison of a private, public and hybrid clouds, migration to a cloud, Seven step model to migrate.
Test	
January 2021	
	Topics Covered
Week 1	Applications: Business opportunities using cloud, Managing Desktop and devices in cloud, cloud as a type of distributed infrastructure, Application of cloud computing for centralizing Email communication, collaboration on schedules, calendars.
Week 2	Case Study: Overview of major cloud service providers- Amazon Ec2, Google App Engine, Google Drive etc.
Week 3	Revision
Week 4	Revision
Assignment 2	

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Lesson Plan (2021-22) Odd Semester

Name of Teacher: Bharti Duhan

Class and Section: Bachelor of Science (Computer Science) I Year 1st Sem (Section-F)

Subject and Code: Computer Fundamentals (CCsL 104)

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topics Covered
Week 2	Computer Fundamentals: Introduction to Computers: Characteristics and Limitations of Computers, Evolution of Computers, And Classification of Computers.
Week 3	Computer Languages, Computer Programs, Structured Programming concepts.
Week 4	Basic Computer Organization: Units of a computer, CPU, ALU, Memory Hierarchy, Registers, I/O devices, Mother Board.
Assignment 1	
December 2021	
	Topics Covered
Week 1	Word Processing: Introduction to MS-Word, Creating & Editing: Formatting Document, Page, Table: Bookmark, Mail Merge, Macros. Spread sheets: Introduction to MS-Excel, Creating & Editing Worksheet, and Formatting data, Formulas and Functions, Creating Charts, Pivot Tables.
Week 2	PowerPoint Presentations: Creating, Manipulating & Enhancing Slides, Organizational Charts, Animations & Sounds, Inserting Animated Pictures.
Week 3	Operating Systems: Introduction to Operating System: Functions of Operating System, Services, Properties. Batch Processing, Multitasking, Multiprogramming, Interactivity, Distributed environment, Spooling.
Week 4	Types Of Operating System: Single user and multiuser, Batch OS, Multiprogramming OS, Multitasking OS, Real- Time OS, Timesharing OS, Distributed OS, Network OS.
Test	
January 2021	
	Topics Covered
Week 1	Internet Basics: History of Internet, Web Server, Web Browser, Hypertext transfer protocol, Internet protocols Addressing.
Week 2	Internet Connection types, How internet works, ISP's, Search Engine, Email and its working, Internet Security, Uses of Internet.
Week 3	Computer Networks and their advantages, Types of Computer Network, Network topologies, Basics of transmission media.
Week 4	Cloud computing Basics: Overview, Applications, Intranet & the cloud benefits, Limitations & Security concerns.
Assignment 2	

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Lesson Plan (2021-22) Odd Semester

Name of Teacher: Bharti Duhan

Class and Section: Bachelor of Science (Computer Science) I Year 1st Sem (Section-F)

Subject and Code: Programming In 'C' (CCsL 105)

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topics Covered
Week 2	Introduction to C programming: History of C, Character Set, Identifiers and Keywords, Constants, Types of Constants, Variables, Data types, Rules for constructing variables.
Week 3	Input/output: Unformatted & formatted I/O function, Input functions: scanf(), getch(), getche(), getchar(), gets(); Output functions: printf(),putch(), putchar(),puts()
Week 4	Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators, type Conversion in Assignments, hierarchy of operations, Structure of a C Program.
Assignment 1	
December 2021	
	Topics Covered
Week 1	Decision Control Structure: Decision making, Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE-IF ladder. Loop Control Structure: While, and do-while loop, for loop and Nested for loop.
Week 2	Case Control Structure: Decision using switch, go to statement, break and continue statements. Functions: Library functions and user defined functions, Global and Local variables, Function Declaration, Calling and definition of function, Methods of parameter passing to functions, recursion, Storage Classes in C.
Week 3	Arrays: Introduction, Array declaration, Accessing values in an array, initialization values in an array Single and Two Dimensional Arrays.
Week 4	Initialization a 2- dimensional Array, Passing array elements to a function : Call by value and call by reference, Insertion and deletion operations, Searching the elements in an array, Using matrices in arrays, Passing an entire array to a function.
Test	
January 2021	
	Topics Covered
Week 1	Pointers: Pointer declaration, Address operator "&", ndirection operator "*", Pointer and arrays, Pointer and 2-Dimensional Arrays, Pointer to an Array, Passing 2-D array to a function, Array of pointers. Dynamic Memory Allocation: malloc(), calloc(), free() functions.
Week 2	String Manipulation in C: Declaration and initialization of string variables, Reading and writing strings, String Handling functions(strlen(), strcpy(), strcmp(), strcat(), strev()).
Week 3	Structures and Unions: Declaration of structures, Structure Initialization, Accessing structure members, Arrays of structure, Nested structures, Structure with pointers, Union.
Week 4	Files in C: Introduction, Opening and Closing files, Basic I/O operations of file.
Assignment 2	

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Lesson Plan

Name of Assistant/Associate Professor: Kanika Yadav

Class and Section: Bachelor of Science (Computer Science) II Year 3rd Sem.

Subject: DATABASE MANAGEMENT SYSTEM (CCsL-304)

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	A Historical perspective, File system vs DBMS. Characteristics of DBMS, Abstraction and Data Integration .Database Users
Week 3	Advantages and Disadvantages of DBMS, DBMS architecture, Data Models, Schemas and Instances, Data Independence.
Week 4	Entity Relationship (ER) Model: Basic Concepts-Entity, Attributes, Types of Attributes, Entity set and Keys; Relationships-Relationship set, Degree of Relationship, Mapping Cardinalities.
Assignment	
December 2021	
	Topic Covered
Week 1	ER diagram representation-Representation of Entity, Attributes and Relationship. Binary Representation and Cardinality, Participation Constraints
Week 2	Relational Model : Relational model concepts (Tables, Tuple, Relation instance, Relation schema, Relation key, Attribute domain),
Week 3	Constraints- Key constraints, Domain constraints, Referential integrity constraints; Relational algebra. Basic operations: Select, Project, Union
Week 4	Set difference, Cartesian product, Rename Relational Database design: Mapping ER model to relational database
Test	
January 2021	
	Topic Covered
Week 1	Functional dependencies, Lossless decomposition, Desirable properties of decomposition
Week 2	Normal forms (1 NF, 2 NF, 3 NF and BCNF).
Week 3	SQL: Why SQL, Data Types; DDL-Create, Alter and Drop table Commands. DML- SELECT/ FROM/ WHERE, INSERT INTO/ VALUES, UPDATE /SET/ WHERE, DELETE Commands. UNION [ALL], INTERSECTION and MINUS Operators.
Week 4	Revision
Assignment	

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Lesson Plan

Name of Assistant/Associate Professor: Kanika Yadav

Class and Section: Bachelor of Science (Computer Science) II Year 3rd Sem.

Subject: OPERATING SYSTEM (CCsL-305)

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Structure of Operating Systems: Layers-MS-DOS Layer Structure, Traditional UNIX System Structure; Running Multiple Operating Systems, Running a Virtual Operating System,
Week 3	Operating System Modes, System Boot ,Process Management: Introduction to Process, Attributes of a process, Process States, Operations on the Process, Process Schedulers, CPU Scheduling,
Week 4	Scheduling Algorithms, Purpose of a Scheduling algorithms ,Introduction to FCFS, Shortest Job First (SJF), Shortest Job First (SJF), Round Robin Scheduling Algorithms.
Assignment 1	
December 2021	
	Topic Covered
Week 1	Memory Management: Fixed and Dynamic partition, Physical and Logical Address Space, Page Table,
Week 2	Mapping from page table to main memory, Page Table Entry, Size of the page table,
Week 3	Finding Optimal Page Size. Virtual Memory Concepts, Advantages and disadvantage of Virtual Memory. Segmentation, Translation of Logical address into physical address by segment table,
Week 4	Advantages and disadvantage of Segmentation. Paging VS Segmentation. File Management: Attributes of File, Operations on File;
Test	
January 2021	
	Topic Covered
Week 1	File Access Methods- Sequential, Direct and Indexed Access; Directory Structure, File Systems, File System Structure- different layers;
Week 2	Master Boot Record, Directory Implementation-Linear List and Hash Table; Disk space Allocation Methods- Contiguous Allocation and FAT.
Week 3	Shell introduction and Shell Scripting: What is shell and various type of shell, Various editors present in Linux/Unix; Different modes of operation in vi editor Shell script, Writing and executing the shell script, Shell variable (user defined and system variables);
Week 4	System calls, Pipes and Filters, Decision making in Shell Scripts (If else, switch), Loops in shell, Utility programs (cut, paste, join, tr , uniq utilities), Pattern matching utility (grep)
Assignment 2	

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Lesson Plan

Name of Assistant/Associate Professor: Meenu Narang

Class and Section: B.Com-1sem(A)

Subject: Computer Application in Business

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 3	Introduction of computer: Definition, Components and characteristics of computers, Input devices
Week 4	Output devices, memory and mass storage devices, Introduction to modern CPU and processors.
Assignment	
December 2021	
	Topic Covered
Week 1	Computer software: introduction, Types of software: system, application and utility software, Microsoft word, excel, power point.
Week 2	Information technology and business: concepts of data, information and information system, effects of IT on business.
Week 3	Types of information system: Transaction Processing system, Management information system.
Week 4	Introduction of E-Commerce, E-commerce and World Wide Web, E-commerce application services.
Test	
January 2022	
	Topic Covered
Week 1	E-commerce models: B2B, B2C, C2C, G2C, M-commerce and e-governance an overview.
Week 2	Online payment system, payment gateways, risk management options for E-payment systems.
Week 3	Plastic money- Debit, Credit card and other smart cards, Digital certification an digital signature.
Week 4	Revision
Assignment	

Head of Department

Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: Kanika Yadav

Class and Section: Bachelor of Computer Application (B.Com.) –1st Year 1st Sem.

Subject: Computer Application in Business

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Introduction of computer: Definition, Components and characteristics of computers, Input devices
Week 3	Output devices, memory and mass storage devices, Introduction to modern CPU and processors.
Week 4	Computer software: introduction, Types of software: system, application and utility software, Microsoft word, excel, power point.
Assignment	
December 2021	
	Topic Covered
Week 1	Information technology and business: concepts of data, information and information system, effects of IT on business.
Week 2	Types of information system: Transaction Processing system, Management information system.
Week 3	Introduction of E-Commerce, E-commerce and World Wide Web, E-commerce application services.
Week 4	E-commerce models: B2B, B2C, C2C, G2C, M-commerce and e-governance an overview.
Test	
January 2022	
	Topic Covered
Week 1	Online payment system, payment gateways, risk management options for E-payment systems.
Week 2	Plastic money- Debit, Credit card and other smart cards, Digital certification an digital signature.
Week 3	Revision
Week 4	Revision
Assignment	

Head of Department

Signature of Teacher

Lesson Plan

Name of Assistant/Associate Professor: Jyotsana

Class and Section: Bachelor in Computer Application (B.Com.) –1st Year 1st Sem.

Subject: Computer Application in Business

Lesson Plan: from Nov 2021 to Jan 2022

November 2021	
	Topic Covered
Week 2	Introduction of computer: Definition, Components and characteristics of computers, Input devices
Week 3	Output devices, memory and mass storage devices, Introduction to modern CPU and processors.
Week 4	Computer software: introduction, Types of software: system, application and utility software, Microsoft word, excel, power point.
Assignment	
December 2021	
	Topic Covered
Week 1	Information technology and business: concepts of data, information and information system, effects of IT on business.
Week 2	Types of information system: Transaction Processing system, Management information system.
Week 3	Introduction of E-Commerce, E-commerce and World Wide Web, E-commerce application services.
Week 4	E-commerce models: B2B, B2C, C2C, G2C, M-commerce and e-governance an overview.
Test	
January 2022	
	Topic Covered
Week 1	Online payment system, payment gateways, risk management options for E-payment systems.
Week 2	Plastic money- Debit, Credit card and other smart cards, Digital certification an digital signature.
Week 3	Revision
Week 4	Revision
Assignment	

Head of Department

Signature of Teacher

Lesson plan for the semester started w.e.f. 10.11.2021

Name of Institute Dayanand P.G.College
Name of the teacher with designation Sanehal, Assistant Professor
Department Management

Subject - Principles of Business Management

Month	Class	Topic Covered	Tests/Assignments
November	BcomI(A)	Intro. To Business and Commerce, Intro. To trade, Types of trade, Introduction to Management, Management as Science, Art and Profession	
December	BcomI(A)	Approaches to Management, Intro. to Planning-Concept and importance, Types of plans, Introduction to Organizing, Principles and Formal and Informal Organization	Assignment
January	BcomI(A)	Intro. to Organization Structure, Meaning and Types of Organization Structure, Delegation of Authority-its meaning , types and Advantages and Barriers, Centralization and Decentralization	Test
February	BcomI(A)	Introduction to Staffing, Meaning and Concept of Staffing, Scope of Staffing, Intro. to Directing, Principles and elements of Directing, Introduction to Motivation, Meaning, Importance and Approaches of Motivation Intro. to Leadership, Approaches to leadership, Various Styles of Leadership, Introduction to Controlling, Meaning and Process of Controlling, Various types of Controlling techniques	Assignment

Subject - Purchase and Material Mgt

November	BBA-V	Meaning of Material Management, Objectives and importance of material mgt, functions and organizing Material information system	
December	BBA-V	Determination and Description of Material Quality, Vendor Rating, Selection, Development, and relations in it, Ways of evaluating suppliers efficiency, price determination and negotiation, make or buy decision, purchase procedure and documentation	Assignment
January	BBA-V	Meaning of Purchasing, Role, Objectives and Functions of Purchasing, Ways of Organizing Purchase Management and its relationships with other departments, Five R's of Purchasing	Test
February	BBA-V	Standardization, Simplification and variety reduction, value analysis and engineering, Stores mgt, its meaning, objectives, importance, functions, Stores layout, coding and classification Inventory meaning, Controlling of inventory spare parts, warehousing mgt, Material Handling, Disposal of scrap, surplus and obsolete materials	Assignment

Subject - Marketing Management

November	BBA-III	Intro. to Marketing, Difference btw Marketing and Selling, Core concepts of Marketing, Meaning of Marketing mix,	
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		Process of Marketing	
December	BBA-III	Marketing environment, Various determinants of consumer Behavior, Consumer's purchase decision process , Meaning of Market Segmentation, Meaning of target marketing	Assignment
January	BBA-III	Differentiation and meaning of Positioning, Meaning of Marketing Research, Process of Marketing Research, Meaning of Marketing Information System, Meaning of product and product line decisions, Various types of Branding decisions	Test
February	BBA-III	Various factors taken into consideration for packaging and labeling decision, Concept of Product Life cycle, Phases of New Product Development, Various types of Pricing Decisions, Various types of Marketing channels- retailing, wholesaling, warehousing and physical distribution Conceptual introduction to Supply chain management, Conceptual introduction to Customer Relationship Marketing; Promotion mix:- Personal selling, Advertising, Sales promotion, Publicity	Assignment
Subject - Business Organisation			
November	BBA-I	Business – Concept, Nature and Scope, Business as a system, objectives of Business, Business and Environment interface, Distinction between Business, Commerce and Trade	
December	BBA-I	Forms of business organization – Sole proprietorship, Partnership, Joint stock company, Types of company, Cooperative societies; Choice of a suitable form of	Assignment

		Business organization	
January	BBA-I	Profit Maximization, Social Responsibility of Business; Business Ethics and Values; Code of Conduct and Corporate Governance, Concept and role of MNCs;	Test
February	BBA-I	Government and Business interface; Stock exchange in India; Business combination – Concept and Causes; Transactional Corporations; International Business Risks Chambers of Commerce and Industries in India – FICCI, CII Association	Assignment

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : **Dr. SANDEEP**
Designation : **Assistant Professor**
Class : **B. B.A. 5th Sem**
Paper Code : **BBA- 305**

Months	Topics
NOV, 2021	Management Accounting: - Meaning, nature, scope, objective and functions; marginal costing and profit planning, practical application of marginal costing techniques
DEC, 2021	Responsibility Accounting: - types of responsibility centers, performance evaluation criteria, responsibility reporting; budgeting – role of budgets and budgeting in organizations, budgeting process, operational and financial budgeting
JAN, 2022	Nature and types of Financial Statements; techniques of financial statement analysis, ratio analysis, fund flow and cash flow analysis, techniques in performance measurement Assignment 1
FEB, 2022	Management accounting information for activity and process decisions; basic capital budgeting techniques Assignment 2 Unit Test
MARCH, 2022	Revision

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Dr. SANDEEP
Designation : Assistant Professor
Class : B. B.A. 3RD Sem
Paper Code : BBA- 205

Months	Topics
NOV. 2021	Meaning, nature and role of capital market, features of developed capital market, reforms in the capital market, regulatory framework of capital market, capital market instruments and innovation in financial instruments
DEC, 2021	Primary capital market scenario in India, primary market intermediaries, primary market activities, methods of raising resources from international market; secondary market scenario in India, reforms in secondary market, organization and management, trading and settlement, listing of securities, stock market index, steps taken by SEBI to increase liquidity in the stock market
JAN 2022	Meaning, need and benefits of depository system in India, difference between demat and physical share, depository process, functioning of NSDL and SHCIL Importance of Debt market in capital market, participant in the debt market, types of instrument treated in the Debt market, primary and secondary segments of debt market Assignment 1
FEB, 2022	Role and policy measures relating to development banks and financial institution in India, products and services offered by IFCI, IDBI, IIBI, SIDBI, IDFC, EXIM Bank, NABARD and ICICI Meaning and benefits of mutual funds, types of mutual funds, SEBI guidelines relating to mutual funds Assignment 2 Unit Test

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Dr. SANDEEP
Designation : Assistant Professor
Class : B. B.A. 1ST Sem
Paper Code : BBA - 109

Months	Topics
NOV, 2021	Business Communication – Nature and process, forms of communication, role of communication skills in business, communication networks, barriers to communication
DEC, 2021	Communication Skills: Listening skills – cognitive process of listening, barriers to listening, reading skills, speaking skills, public speaking, voice modulation and body language
JAN, 2022	Written Communication – Types, structures and layout of business letters; presentative letters – sales letters, claim letters, employment letters, writing memo, notice and circular Assignment 1
FEB, 2022	Business Reports – Purpose and types, framework of business reports, presentation of reports, brochures, issuing notice and agenda of meeting and recording of minutes of meetings Assignment 2 Unit Test

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Dr. SANDEEP
Designation : Assistant Professor
Class : BCOM. 1ST Sem
Paper Code : BCOM - 103

Months	Topics
NOV, 2021	Business: Nature and scope of Business; Forms of Business, Management: Definition, characteristics, scope and importance of management; Functional areas of management; Management and Administration; Levels of Management; Mintzberg's Managerial Roles.
DEC, 2021	Approaches to Management: Classical and Neo classical approach, Behavioral approach, Management science approach, Systems approach and Contingency approach-Highlighting the contributions of Henry Fayol, F.W. Taylor and Peter F. Drucker; Contemporary developments in approaches; Theory Z, McKinsey -7's, Quality Management.
JAN, 2022	Planning: Definition, Nature, Objectives and importance, Planning Process, Types of Plans, Barriers to Effective Planning. Organizing: Definition, Nature, Principles of Organisation, Types of Organisation, Organizational Structure, Authority, Delegation and Centralization vs. Decentralization. Assignment 1
FEB, 2022	Staffing: Meaning, importance and scope, Matching job and people. Motivation: concept, objectives & significance. Leadership: concept, significance & functions, Leadership styles, approaches to leadership. Controlling: meaning and characteristics of control, process of control, prerequisites of an effective control system; controlling techniques. Assignment 2 Unit Test

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Samriti
Designation : Assistant Professor
Class : B.com 3rd Sem
Paper Code : Bcom- 303

Months	Topics
Nov, 2021	Indian Contract Act: Meaning and essentials of a valid contract; offer and acceptance; consideration; capacity to contract; consent and free consent; consideration; void agreements; quasi contract; performance of contracts; different mode of discharge of contract; remedies for breach of contract.
Dec, 2021	Contracts of Indemnity and Guarantee; bailment and pledge; contract of agency.
January, 2022	Sale of Goods Act– Definition and essential of a contract of sale, conditions and warranties, transfer of property; performance of contract of sale; right of unpaid seller; remedies for breach of contract. Assignment 1
Feb, 2022	Negotiable Instrument Act – Meaning and essential elements of a negotiable instruments; types of negotiable instrument; holder and holder in due course; negotiation of negotiable instruments; dishonour of negotiable instruments. Meaning and scope of Information Technology Act; digital signature; electronic governance; regulation of certifying authority; digital signature certificates; duties of subscribers; penalties adjudication and offences. Assignment 2 Unit Test

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Samriti
Designation : Assistant Professor
Class : B.com 5th Sem
Paper Code : Bcom- 502

Months	Topics
Nov, 2021	Financial Management: Goals, functions and decisions. Time preference for money, Organization of Finance Functions., Financial goal: profit maximization vs. wealth maximization, Agency problems: Managers vs. shareholder's goals. Time value of money.
Dec, 2021	Capital Budgeting decisions –Introduction, Nature and types of investment decisions, methods: Pay-back period method, Net present value method, Internal rate of return method, profitability index method, NPV vs. PI, Measures of operating and financial leverage
January, 2022	Management of working capital: Concept of working capital, Determinants of working capital. Cash Management, Receivables Management: credit policy nature and goals. Inventory Management: nature, need and objectives. Cost of capital of different sources of finance, determining the components of cost of capital, the weighted average cost of capital. Assignment 1
Feb, 2022	Capital Structure Planning and Policy, Capital structure theories and its determinants, Dividend Policies Models: Relevance and Irrelevance Models. Issues in Dividend Policies. Assignment 2 Unit Test

(Teacher's Signature)

Lesson Plan for Session 2021-2022 (odd Semester)

Name of Faculty member : Samriti
Designation : Assistant Professor
Class : B.com 1st Sem (section B,C)
Paper Code : Bcom- 103

Months	Topics
Nov, 2021	Business: Nature and scope of Business; Forms of Business, Management: Definition, characteristics, scope and importance of management; Functional areas of management; Management and Administration; Levels of Management; Mintzberg's Managerial Roles.
Dec, 2021	Approaches to Management: Classical and Neo classical approach, Behavioral approach, Management science approach, Systems approach and Contingency approach-Highlighting the contributions of Henry Fayol, F.W. Taylor and Peter F. Drucker; Contemporary developments in approaches; Theory Z, McKinsey -7's, Quality Management.
January, 2022	Planning: Definition, Nature, Objectives and importance, Planning Process, Types of Plans, Barriers to Effective Planning. Organizing: Definition, Nature, Principles of Organisation, Types of Organisation, Organizational Structure, Authority, Delegation and Centralization vs. Decentralization. Assignment 1
Feb, 2022	Staffing: Meaning, importance and scope, Matching job and people. Motivation: concept, objectives & significance. Leadership: concept, significance & functions, Leadership styles, approaches to leadership. Controlling: meaning and characteristics of control, process of control, prerequisites of an effective control system; controlling techniques. Assignment 2 Unit Test

(Teacher's Signature)

Lesson plan for the semester started w.e.f. 10.11.2021

Name of Institute Dayanand P.G.College
Name of the teacher with designation Dr Samta Chaudhary,
Assistant Professor
(Management)

Subject - Environmental Studies

Month	Class	Topic Covered	Tests/Assignments
November	BBA-III	Environmental studies – Nature, scope and importance, need for public awareness; natural resources – renewable and non-renewable resources, use and over-exploitation/over-utilization of various resources and consequences; role of an individual in conservation of natural resources; equitable use of resources for sustainable lifestyles. Ecosystems – concept, structure and function of an ecosystem; energy flow in the ecosystem; ecological succession; food chains, food webs and ecological pyramids; types of ecosystem – forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystems	Assignment
December	BBA-III	Environmental Pollution – Definition, cause, effects and control measures of different types of pollutions – air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution, nuclear hazards; solid waste management – causes, effects and control measures of urban and industrial wastes; role of an individual in prevention of pollution	Test

January	BBA-III	Social issues and the environment – Sustainable development, urban problems related to energy, water conservation, rain water harvesting, watershed management; resettlement and rehabilitation of people, its problems and concerns; climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust; Wasteland reclamation, consumerism and waste products	Assignment
February	BBA-III	Environmental legislation – Environment Protection Act. Air (prevention and control of pollution) Act, Water (prevention and control of pollution) Act, Wildlife Protection Act, Forest Conservation Act	Assignment
Subject - Company Law			
November	BBA-III	Meaning and nature of company, kinds of companies, formation and incorporation of company, Memorandum of Association; Articles of Association, affects of memorandum and articles of association; relationship and distinction between memorandum of association and article of association; doctrine of indoor management. Meaning and definition of prospectus; abridged form of prospectus; misstatement in a prospectus and their consequences	
December	BBA-III	Definition of member; members and share holders; modes of acquiring membership; termination of membership; rights and liabilities of a member. Meaning need and requisitions of valid meeting; voting, proxy and resolutions; kinds of general body meetings. Meaning of dividend; sources of dividend payments; declaration of dividend; payment of dividend; unpaid and unclaimed dividends. Appointments, qualifications and remunerations of auditors; power, duties and obligations of auditors. Inspection and	Assignment

		investigations.	
January	BBA-III	Meaning, qualification, appointment and removal of directors; duties and liabilities of directors; remuneration of directors; distinction between managing director and manager; distinction between managing director and whole time director; meetings of board of directors. Meaning, need and current development in corporate governance	Test
February	BBA-III	Inter-company loans, investments and borrowing. Meaning and prevention of oppression; prevention of mismanagement. Meaning and modes of winding up; grounds for winding up by the tribunals; types of voluntary winding up; consequences of voluntary winding up; appointment, power and duties of a liquidators in winding up. Meaning and nature of contributor's liability. Meaning and dissolution of defunct company.	Assignment
Subject - Cost Accounting			
November	BBA-II	Introduction: - Objective, elements of cost, cost sheet, importance of cost accounting, types of costing, installation of costing system, difference between cost accounting and financial accounting	
December	BBA-II	Material Control: - Meaning and objectives of material control, material purchase procedure, fixation of inventory levels – Reorder level, EOQ, Minimum level, Maximum level, Danger level and Methods of Valuing Material Issues	Assignment
January	BBA-II	Labour Cost Control: - its importance, methods of Time Keeping and Time Booking; Treatment and Control of Labour Turnover, Idle Time, Overtime, Systems of Wage Payment – Time Wage System, Piece Wage System and Balance or Debt Method; Overhead – classification, allocation and apportionment of overhead	Test

		including machine hour rate	
February	BBA-II	Methods of Costing – Job, Batch and Contract Costing, Process Costing Fundamental, Process Losses & Gains	Assignment
Subject - Production Management			
November	BBA-II	Production/Operations Management: Introduction, evaluation, major long term and short term decisions; objectives, importance and activities; difference between products and services (from POM view point)	
December	BBA-II	Meaning and types of Production Systems: Production to order and production to stock; plant location; factors affecting locations and evaluating different locations; plant layout: meaning, objectives, characteristics and types; plant layout and materials handling	Assignment
January	BBA-II	Production Planning and Control: Meaning, objectives, advantages and elements, PPC and production systems, sequencing and assignment problems; work study: meaning, objectives, prerequisites and procedure; procedure and tools of methods study, procedure and techniques of work measurement	Test
February	BBA-II	Inventory Control: Objectives, advantages and techniques (EOQ model and ABC analysis); quality control: meaning and importance; inspection, quality control charts for variables and attributes and acceptance sampling; maintenance; importance and types	Assignment

DAYANAND COLLEGE, HISAR

LESSON PLAN FOR SESSION 2021-2022

B. Com Ist year

Class :- B.com 1st yr

Semester :- 1st

Subject:- Financial Accounting

Paper code:- BCOM 101

MONTH	TOPICS
NOV 2021	Financial Accounting: Meaning, nature, scope, objectives, advantages and limitations, Bookkeeping, accounting and accountancy, Branches of accounting, GAAP vs. FASB, Accounting equation, Accounting concepts and conventions. Accounting cycle: Classification of accounts, Journal, Rules of debit and credit, Compound journal entry, Ledger, Rules regarding posting, Trial balance, Sub-division of journal
DEC 2021	Capital and Revenue: Classification of income, expenditure and receipts, deferred revenue expenditure, Provisions and Reserves: Kinds of provisions and reserves, Difference between provision and reserve. Depreciation Accounting: Concept, causes of depreciation, Need for providing depreciation, factors determining the amount of depreciation, methods of charging and recording depreciation. ASSIGNMENT AND UNIT TEST
JAN 2022	Accounting for not-for profit organizations: Receipt and Payment Account, Income and Expenditure Account, Receipt and Payment Account versus Income and Expenditure Account. Financial statements of profit-making entities: Manufacturing Account, Trading Account, Profit and Loss Account, Balance Sheet, Difference between Profit and Loss Account and Balance Sheet, Adjustments in final accounts.

Subject Teacher- Ms. Dimpal ,

Incharge : Dr. Renu Rathee

Ms. Jyoti,

Ms. Usha

Subject:- MICROECONOMICS

Paper code:- BCOM 102

MONTH	TOPICS
NOV 2021	Basic economic concepts: Nature and scope of microeconomics; circular flow of economic activity, positive and normative economics, deductive and inductive methods of analysis, assumptions of economics, production possibility frontier. Theory of demand, demand function, elasticity of demand, Theory of supply, Supply function; Elasticity of supply, the consumer surplus, shift in supply and demand curve and market/ price equilibrium, exceptions of law of demand and supply,
DEC 2021	<p>Theory of consumer behavior: Law of diminishing marginal utility, Cardinal utility approach consumer equilibrium with single commodity and multi commodity model. Ordinal utility approach - Indifference curve, IC Map, characteristics, IC analysis, consumer equilibrium, price effect- Income and substitution and their analysis, derivative of demand curve through cardinal and ordinal utility approach.</p> <p>Laws of production: Law of variable proportion, Returns to a scale, Production isoquants, marginal rate of technical substitution, optimal combination of resources, the expansion path, returns to scale using isoquants.</p> <p>ASSIGNMENT AND UNIT TEST</p>
JAN 2022	<p>Theory of Cost: Social and private costs of production, long run and short run costs of production. Traditional theory of cost, Modern theory of cost, Economies and diseconomies of scale. Concepts of revenue: marginal and Average. Relationship between average and marginal revenue.</p> <p>Market: price and output determination under perfect competition, determination of price and output under monopoly, price discrimination under monopoly, price and output under Monopolistic competition, Oligopoly characteristics, Cournot's model and Kinked demand curve model, cartel with profit maximization through market sharing and price leadership, sales maximization.</p>

Subject Teacher : Mr. Mukesh

Incharge : Dr. Suruchi Sharma

Mr. Deepak

Mr. Pawan

Subject: Principles of business management

Paper code:- BCOM 103

MONTH	TOPIC
NOV 2021	Business: Nature and scope of Business; Forms of Business, Management: Definition, characteristics, scope and importance of management; Functional areas of management; Management and Administration; Levels of Management; Mintzberg's Managerial Roles. Approaches to Management: Classical and Neo classical approach, Behavioral approach, Management science approach.
DEC 2021	Systems approach and Contingency approach-Highlighting the contributions of Henry Fayol, F.W. Taylor and Peter F. Drucker; Contemporary developments in approaches; Theory Z, McKinsey - 7's, Quality Management. Planning: Definition, Nature, Objectives and importance, Planning Process, Types of Plans, Barriers to Effective Planning. ASSIGNMENTS AND UNIT TEST
JAN 2022	Organizing: Definition, Nature, Principles of Organisation, Types of Organisation, Organizational Structure, Authority, Delegation and Centralization vs. Decentralization. Staffing: Meaning, importance and scope, Matching job and people. Motivation: concept, objectives & significance. Leadership: concept, significance & functions, Leadership styles, approaches to leadership. Controlling: meaning and characteristics of control, process of control, prerequisites of an effective control system; controlling techniques

Subject Teacher:

Incharge: Dr.Renu Rathee

Subject: Computer application in business

Paper code:- BCOM 104

MONTH	TOPIC
NOV 2021	Introduction to Computers: Definition, components and characteristics of computers; Input and output devices: memory and mass storage devices; Introduction to modern CPU and processors, Computer software: introduction, types of software: system, application and utility software. Microsoft Word, Excel and Power point
DEC 2021	Information Technology and Business: concepts of data, information and information system, effects of IT on business; Types of information system: Transaction Processing System (TPS), Management Information System (MIS) ASSIGNMENT AND UNIT TEST
JAN 2022	Introduction to E-commerce; e-commerce and World Wide Web; e-commerce application services; e-commerce models: B2B, B2C, C2C, G2C. M-commerce and e-governance: an overview. Online payment system, Payment gateways, Risk management options for E-payment systems, Plastic money- Debit, Credit card and other Smart cards, Digital certification and Digital signature.

Subject Teacher:

Incharge:

Subject: Business Mathematics

Paper code:- BCOM 105

MONTH	TOPICS
NOV 2021	Matrices and Determinants: concept of matrix, types, and algebra of matrices; properties of determinants; calculation of values of determinants up to third order, adjoint of a matrix, elementary row or column operations; Finding inverse of a matrix through adjoint and elementary row or column operations.
DEC 2021	solution of a system of linear equations having unique solution and involving not more than three variables. Linear inequalities: graphical solution of linear equalities in two variables, solution of system of linear inequalities in two variables. ASSIGNMENT AND UNIT TEST
JAN 2022	Linear programming-formulation of equation: graphical method of solution; problems relating to two variables including the case of mixed constraints; cases having no solution, multiple solutions, unbounded solution and redundant constraints. Logarithms and Anti-logarithms, Permutations and Combinations

Subject Teacher: Ms. Renu

Incharge : Mr. Inderjeet

Ms. Rekha

MONTH	TOPICS
NOVEMBER 2021	Multidisciplinary nature of Environmental studies: Definition, scope and importance, need for public awareness: concepts, structure and function of an ecosystem: Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession, food chains, Food webs and ecological pyramids: Introduction, Characteristics, structure and function of different ecosystems such as Forest ecosystem, Grass land ecosystems Desert ecosystem, Aquatic ecosystem (Ponds, Stream, Lakes, rivers, oceans, estuaries); Biodiversity: Introduction, Definition: genetic, species and ecosystem diversity, Bio-geographical classification of India, Ecosystem & biodiversity services: ecological, economic, social, consumptive use, productive use, social ethical, aesthetic and option values: Biodiversity at global, national and local level, Indian as a mega-diversity nation, Global Hot-spot of biodiversity, Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, Biological invasions econgerged and endemic species of India, Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
DEC 2021	Renewable and non-renewable resources, Natural resources and associated problems, Forest resources: Use and over-exploitation, deforestation, case studies, Timers extraction, mining, dams and their effects on forests and tribal people; Water resources: Use and over utilization of surface and ground water, floods, droughts conflicts over water, dams benefits and problems; Mineral resources: Use of exploitation, environmental effects of extracting and mineral resources; Food resources: World food problems; changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity: Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies; Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. ASSIGNMENTS AND UNIT TEST
JAN 2022	Definition of environment Pollution; Causes, effects and control measures of: Air Pollution, Water Pollution, Noise pollution, Nuclear hazards and human health risk; Solid water Management: Causes, effects and control measures of urban and industrial wastes; Pollution case studies; Disaster management: floods, earthquake, cyclone and landslides; Climate change, global warming, acid rain, ozone layer depletion; different laws related to environment: Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act.; International agreements: Montreal & Kyoto Protocol & Nature reserves, tribal populations and

	human health, Concepts of sustainability & sustainable development, water conservation, rain water harvesting, watershed management, Resettlement and rehabilitation of project affected persons; case studies; Environment ethics: role of India and other religion and cultures in environmental conservation, Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi); Human Population growth: Impact on environment, human health & welfare, Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan. Filed Work: visit to a local area to document environmental
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Subject Teacher:

Incharge:

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021- 2022)
Semester- I (M. Sc. -I)
Submitted by- Dr. Ritu Saharan
BTL 512: BIOMOLECULES AND METABOLISM

S. No.	Date	Topic
1	1 Dec, 2021 to 4 Dec, 2021	Program outcome and Course outcome. Biomolecules: An introduction, General structure of biomolecules, Fundamental principles governing structure of biomolecules, Importance of covalent and non-covalent bonds.
2	5 Dec, 2021	Sunday
3	6 Dec, 2021 to 11 Dec, 2021	Structure and function of biologically important mono, di and poly-saccharides, glycoproteins & glycolipids.
4	12 Dec, 2021	Sunday
5	13 Dec, 2021 to 18 Dec, 2021	Metabolism of carbohydrates-Glycolysis, Feeder pathways, Citric acid cycle, Gluconeogenesis, Glyoxylate and Pentose phosphate pathways and their regulations.
6	19 Dec, 2021	Sunday
7	20 Dec, 2021 to 24 Dec, 2021	Structure of amino acids, non-protein and rare amino acids. A brief account of amino acid biosynthesis and degradation,
8	25 Dec, 2021 to 26 Dec, 2021	Christmas and Sunday
9	27 Dec, 2021 to 1 Jan, 2022	Urea cycle. Structural organization of proteins, Reverse turns and Ramachandran plot, Supra-molecular complexes of proteins.
10	2 Jan, 2022	Sunday
11	3 Jan, 2022 to 8 Jan, 2022	Chemical synthesis of peptides and small proteins. Protein sequencing. Structure of fatty acids, Classification of lipids, Structure and functions of major lipid subclasses
12	9 Jan, 2022	Sunday

13	10 Jan, 2022	Assignment
14	11 Jan, 2022 to 15 Jan, 2022	Acylglycerols, Phospholipids, Glycolipids, Sphingolipids. Waxes, Terpenes and Sterols. Fatty acids biosynthesis, degradation and their regulations
15	16 Jan, 2021	Sunday
16	17 Jan, 2022 to 22 Jan, 2022	Ketone bodies synthesis. Biosynthesis of TAG, Cholesterol, Phospholipids and Glycolipids.
17	23 Jan, 2021	Sunday
18	24 Jan, 2022 to 29 Jan, 2022	Structure and properties of nucleic acid bases, nucleosides and nucleotides. Biosynthesis and degradation of purines and pyrimidines, Salvage pathway.
19	30 Jan, 2021	Sunday
20	31 Jan, 2022	Assessment test
21	1 Feb, 2022 to 5 Feb, 2022	Structure and biochemical roles of fat and water-soluble vitamins and their coenzymes.
22	6 Feb, 2022	Sunday
23	7 Feb, 2022 to 8 Feb, 2022	Problems taken

Dr. Vivek Srivastava
 (Associate Professor)
 Head, Department of Biotechnology

Dr. Ritu Saharan
 (Assistant Professor)
 Subject Tutor

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021- 2022)
Semester- I (M. Sc. -I)
Submitted by- Dr. Ritu Saharan
BTL 514: GENERAL AND APPLIED MICROBIOLOGY

S. No.	Date	Topic
1	1 Dec, 2021 to 4 Dec, 2021	Historical background and scope of Microbiology. Ubiquitous nature of microorganisms. Impact of microbes on human affairs. Structure of prokaryotic and eukaryotic cell. Differences between Eubacteria, Archaeobacteria and Eukaryotes.
2	5 Dec, 2021	Sunday
3	6 Dec, 2021 to 11 Dec, 2021	Salient features of different groups of microorganisms such as bacteria, fungi, protozoa and algae including their morphological features, mode of reproduction and cell cycle.
4	12 Dec, 2021	Sunday
5	13 Dec, 2021 to 18 Dec, 2021	Principles of microbial nutrition- Chemoautotrophs, chemoheterotrophs, photoautotrophs and photoheterotrophs. Basic principles and techniques used in bacterial classification.
6	19 Dec, 2021	Sunday
7	20 Dec, 2021 to 24 Dec, 2021	Phylogenetic and numerical taxonomy. New approaches of bacterial classification including DNA hybridization, ribosomal RNA sequencing and characteristics of primary domains. Major groups of bacteria based on latest edition of Bergey's manual.
8	25 Dec, 2021 to 26 Dec, 2021	Christmas and Sunday
9	27 Dec, 2021 to 1 Jan, 2022	General characteristics, structure, and classification of plant, animal and bacterial viruses, Replication of viruses.
10	2 Jan, 2022	Sunday
11	3 Jan, 2022	Assessment test

12	4 Jan, 2022 to 8 Jan, 2022	Lytic and lysogenic cycle in bacteriophages. A Brief account of Retroviruses, Viroid's, Prions and emerging viruses such as HIV, Avian and swine flu viruses.
13	9 Jan, 2021	Sunday
14	11 Jan, 2022 to 15 Jan, 2022	Microbial Growth: The definition of microbial growth. Growth in batch culture. Mathematical representation of bacterial growth, Bacterial generation time.
15	16 Jan, 2021	Sunday
16	17 Jan, 2022 to 21 Jan, 2022	Specific growth rate. Monoauxic, Diauxic and synchronized growth curves. Measurement of microbial growth. Factors affecting microbial growth. Brief account of growth in fungi. Culture collection and maintenance of microbial cultures.
17	22 Jan, 2022	Assignment submission
18	23 Jan, 2021	Sunday
19	24 Jan, 2022 to 29 Jan, 2022	Control of Microorganism by physical and chemical agents. Antiseptics and disinfectants. Narrow and broad-spectrum antibiotics. Antifungal antibiotics, Mode of action of antimicrobial agents. Antibiotic resistance mechanisms.
20	30 Jan, 2021	Sunday
21	1 Feb, 2022to 5 Feb, 2022	Microbial flora of soil, Interaction among microorganisms in environment. Symbiotic associations- types, functions and establishment of symbiosis. Brief account of biological nitrogen fixation.
22	6 Feb, 2022	Sunday
23	7 Feb, 2022 to 8 Feb, 2022	Problems taken

Dr. Vivek Srivastava
(Associate Professor)
Head, Department of Biotechnology

Dr. Ritu Saharan
(Assistant Professor)
Subject Tutor

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021-2022)
Semester- V (B. Sc. -III) year
Submitted By: - Dr. Raj Rani
Discipline Specific Elective Biotechnology Paper-I
Plant Biotechnology
(BIT 501 L)

Sr. No.	Month	Topics
1	November 9, 2021	Course outcomes discussion.
2	November 10, 2021 to November 13, 2021	Plant Tissue Culture: Introduction, Concept, History, Scope and Applications. Plant Tissue Culture Laboratory: Layout, organization, equipments, instruments and other requirements. Aseptic Techniques: General Sanitation/cleanliness of PTC laboratory and precautions regarding maintenance of aseptic conditions, Washing, drying and sterilization of glassware, sterilization of media.
3	November 14, 2021	Sunday
4	November 15, 2021 to November 20, 2021	Culture Media: Nutritional requirements for plant tissue culture, role of different media components, plant growth regulators, different culture media viz. MS, B5 Nitsch and White's medium. In-vitro methods in plant tissue culture:
5	November 21, 2021	Sunday
6	November 22, 2021 to November 23, 2021	Explants, their cellular characteristics, dedifferentiation and redifferentiation, cellular totipotency, organogenesis and somatic embryogenesis.
7	November 24, 2021	Holiday
8	November 21, 2021	Sunday

9	November 28,2021	Sunday
10	November 29,2021 to 4,December 2021	Synthetic seeds (a brief account), Meristem culture. Protoplast culture: Protoplast isolation, viability test and its culture. Somatic hybridization – protoplast fusion techniques (chemical and electro-fusion), selection of hybrids, production of symmetric and asymmetric hybrids and cybrids. Practical applications of somatic hybridization.
11	5,December 2021	Sunday
12	December 6,2021 to December 11,2021	Production of secondary metabolites in vitro: introduction, technique and utilities. Plant germ plasm conservation and cryopreservation. Genetic Engineering in plants: Introduction, <i>Agrobacterium tumefaciens</i> and <i>A. rhizogenes</i> mediated transformation Ti plasmid. Strategies for gene transfer to plant cells. Binary and cointegrate vectors. Direct DNA transfer/Physical methods of gene transfer in plants –biolistic method, electroporation, liposome mediated, Calcium phosphate mediated, microinjection etc.
13	December 12,2021	Sunday
14	December 13,2021 to December 18,2021	Ti plasmid. Strategies for gene transfer to plant cells. Binary and cointegrate vectors. Direct DNA transfer/Physical methods of gene transfer in plants –biolistic method, electroporation, liposome mediated, Calcium phosphate mediated, microinjection etc. Transgenic Plants: Introduction and applications. Developing insect resistance, bacterial, fungal and viral disease resistance and abiotic stress tolerance in plants
15	December 19,2021	Sunday
16	December 20,2021 to December 23,2021	Improving food quality – nutritional enhancement of plants (carbohydrates, seed storage proteins and vitamins). Plants as Bioreactors: antibodies, polymers, industrial enzymes (Brief account only). Edible vaccines.

17	December 24,2021	Assignment Submission.
18	December 25,2021	Christmis Holiday.

Dr. Vivek Srivastava
RANI
(Associate Professor)
Professor)
Head, Dept. of Biotechnology

Dr. RAJ
(Assistant
Subject Tutor

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021-2022)
Semester- V (B. Sc. -III) year
Submitted By: - Dr. Raj Rani
Discipline Specific Elective Biotechnology Paper-II
Microbial Biotechnology
(BIT 502 L)

Max. Marks: 80
Internal Assessment: 20

Sr. No.	Month	Topics
1.	December 26,2021 to January 1,2022	Microbial Biotechnology: Historical landmarks, General concept. Screening and Isolation of Micro organisms: Industrially important microbes, their screening and isolation, enrichment culture. Strain improvement- bacterial genetics, mutant selection, Recombination, recombinant DNA technology
2	January 2,2022	Sunday
3	January 3,2022 to January 8,2022	Strain preservation and maintenance. Nutrition and cultivation of microorganisms: Basic nutrition and metabolism, Natural and Synthetic media, Sterilization techniques, Microbial growth kinetics.
4	January 9,2022	Sunday
5	January 10,2022 to January 15,2022	Microbial Fermenters/Bioreactors: Basic design of fermenters. Physico-chemical standards used in bioreactors (agitation, aeration, pH, temp., dissolved oxygen etc.). Types of fermenters- stirred tank, airlift etc. Fermentation types – Continuous, Batch culture, Solid state and Submerged. Quantification of growth, thermodynamics of growth, effect of different factors on growth.
6	January 16,2022	Sunday
7	January 17,2022 to January 22,2022	Process Development and Downstream Processing: Shake flask fermentation, scale up of the process. Separation of particles, disintegration of cells, extraction, concentration, purification and drying of the products. Microbial Products: a brief discussion about production of certain industrial products such as –Alcohol Alcoholic beverage (Beer), Organic acids (citric acid), Antibiotics (penicillin), Amino acids (glutamic acid, Vitamin (B12), enzymes (protease, alpha amylase) and Biotransformation.

8	January 23,2022	Sunday
	January 24, 2022	Assessment test.
9	January 25,2022 to January 29,2022	Microbial Foods: Single Cell Proteins. Sewage waste water treatment: Aerobic and anaerobic digestion. Bioremediation. Biodegradation of xenobiotic compounds. Biotransformation, Biomining, Bioleaching, Biogas production.
10	January 30,2022	Sunday
11	January 31,2022	Problems Taken and Assign the assignments.
12	1,February 2022 to 5 February 2022	Microbial technology in agriculture-. Bioinsecticides, bioherbicides, biocontrol agents for disease control, advantages over chemical methods. Biofertilizers.
13	6,February 2022	Sunday
14	7,February 2022to 8,February 2022	Assignment submission and assessment test.

Dr. Vivek Srivastava
(Associate Professor)
Head, Dept. of Biotechnology

Dr. RAJ RANI
(Assistant Professor)
Subject Tutor

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021-2022)
Semester- 1 (B. Sc. -I) year

Submitted By: - Dr. Kanchan
Discipline Specific Elective Biotechnology Paper-I
Introduction to Biotechnology
(BIT 101 L)

Max. Marks: 80
Internal Assessment: 20

Sr. No.	Month	Topics
1.	November 16,2021 to November 21,2022	Introduction to Biotechnology: History and major landmarks in the development of biotechnology, Introduction to gene and genomes, Proteins and proteome.
2	November 22, 2021	Sunday
3	November 23,2021 to November 28,2021	Fermentation technology: General introduction, basic technique and applications,:
4	November 29, 2021	Sunday
5	November 30, 2021	Guru Nanak Jayanti
6	December 1,2021 to December 5,2021	Plant Tissue Culture:General introduction, basic technique and applications, Animal Tissue Culture: General introduction, basic technique and applications.
7	December 6,2021	Sunday
8	December 7,2021 to December12,2021	Genetic Engineering: Introduction and history, Recombinant DNA technology, Genetically modified organisms (GMOs), DNA finger printing and forensic analysis.
9	December 13,2021	Sunday

10	December 14,2021 to December19,2021	Applications of biotechnology: Applications of biotechnology in agriculture, animal husbandry, veterinary sciences, food & feed industry, chemical industry
11	December 20,2021	Sunday
12	December 21,2021	Problems Taken and Assign the assignments.
13	December 22,2021 to December 24,2021	environment, bioremediation & waste water treatment, solid waste management, biofuels, human health and medicine (Monoclonal antibodies, hybridoma technology and embryo transfer technology)
14	December 25,2021	Christmas Holiday
15	December 26,2021 to December 28,2021	Bio-safety and Ethics: Biotechnology research in India, Biotechnology in context of developing world, Brief account of safety guidelines and risk assessment in biotechnology, Ethics in Biotechnology, Intellectual property rights. Nanotechnology: Introduction, history and scope (Brief account)

Dr. Vivek Srivastava
 (Associate Professor)
 Head, Dept. of Biotechnology

Dr. KANCHAN
 (Assistant Professor)
 Subject Tutor

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021-2022)
Semester- 1(B. Sc. -I) year

Submitted By: - Dr. Kanchan
Discipline Specific Elective Biotechnology Paper-I
Biochemistry-I
(BIT 102 L)

Sr. No.	Month	Topics
1.	December 29,2021 to January 1,2022	Biochemistry: Introduction, History and major landmarks in the development of biochemistry, Chemical Foundations of Life – biomolecules and biological chemistry.
2	January 2,2022	Sunday
3	January 3,2022 to January 8,2022	Interactions in biological systems: Intra and intermolecular forces, Electrostatic and hydrogen bonds, Disulfide bridges, Hydrophobic and hydrophilic molecules and forces, Water and weak interactions, pH and buffers.
4	January 9,2022	Sunday
5	January 10,2022 to January 15,2022	Carbohydrates: Structure, Function and properties of biologically important monosaccharides, disaccharides and polysaccharides. Homo & Hetero Polysaccharides, Mucopolysaccharides
6	January 16,2022	Sunday
7	January 17,2022 to January 22,2022	Bacterial cell wall polysaccharides, Glycoprotein's and their biological functions
8	January 23,2022	Sunday
9	January 24,2022	Amino acids and Proteins: Structure and properties of amino acids, Essential amino acids,
10	January 25,2022	Rare and non-protein amino acids, acid base behaviour/zwitterions; pKa value and titration curve.

11	January 26,2022	Holiday
12	January 27,2022	Solve Doubts and Difficulties.
13	January 28,2022 to January 30,2022	Proteins: Peptide bond, Structure and function of some biologically important peptides Types of proteins and their classification. Forces stabilizing protein structure and shape. Different Level of structural organization of proteins
14	January 31,2022	Sunday
15	February 1,2021 to February 6,2022	Lipids: Introduction and Classification – simple and complex lipids, Fatty acids – structure and nomenclature, soap value, acid value, iodine number, rancidity.
16	February 7,2022	Sunday
17	February 8,2022 to February 12,2022	Lipids: Introduction and Classification – simple and complex lipids, Fatty acids – structure and nomenclature, soap value, acid value, iodine number, rancidity.
18	February 13,2022	Revision and problem taken

Dr. Vivek Srivastava
 (Associate Professor)
 Head, Dept. of Biotechnology

Dr. KANCHAN
 (Assistant Professor)
 Subject Tutor

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021-2022)
Submitted by :- Dr. Asha
Semester- III (M. Sc.–II) year
Molecular Genetics
(BTL 533)

Sr. No.	Month	Topics
1.	November 9, 2021 to November 13, 2021	Inheritance: Historical background, Extra chromosomal inheritance, Inheritance of quantitative traits, Sex linked, Sex influenced and sex-limited traits. Molecular Organizations of Chromosomes: Viral and bacterial chromosomes, Nucleosome and chromatin structure
2	November 14,2021	Sunday
3	November 15,2021 to November 20, 2021	Structure of centromere and telomere, Euchromatin and heterochromatin, Polytene and lamp brush chromosomes, Genome complexity, Linkage and recombination of gene
4	November 21,2021	Sunday
5	November 22,2021	Assign the Assignments and Assesment Test.
6	November 23,2021 to November 27, 2021	Gene mapping by three point test cross, Tetrad analysis, Positive and negative interference, Molecular mechanism of recombination
7	November 28,2021	Sunday
8	November 29,2021 to December 4, 2021	Mutation: Molecular mechanism of spontaneous mutations, Molecular mechanism of mutations induced by known chemical mutagens, Types of DNA repair,
9	December 5, 2021	Sunday
10	December 6, 2021 to December 11, 2021	Gene Concept: Classical concept, Fine structure of the gene, Molecular concept of the gene
11	December 12, 2021	Sunday
12	December 13, 2021 to December 18, 2021	Pseudogenes, Overlapping genes, Oncogenes, Repeated genes, Gene amplification
13	December 19, 2021	Sunday

14	December 20 2021 to December 24, 2021	Bacterial and Viral Genetics: Transformation, Conjugation and Transduction,
15	December 25, 2021 to December 26, 2021	Christmas and Sunday
16	December 27, 2021 to January 1, 2022	Revision and problems taken
17	January 2, 2022	Sunday
18	January 3, 2022 to January 8, 2022	Assignments Test
19	January 9, 2022	Sunday
20	January 10, 2022 to January 15, 2022	Molecular mechanism of suppression and Somatic mutations, .Molecular mechanism of recombination in bacteria
21	January 16, 2022	Sunday
22	January 17, 2022 to January 22, 2022	Solve Doubts and Difficulties.
23	January 23, 2022	Sunday
24	January 24, 2022 to January 29, 2022	Post-meiotic segregation, Mapping through somatic cell hybridization
25	January 30, 2022	Sunday
26	January 31, 2022 to Feb 5, 2022	IS and Tn elements in bacteria, <i>E.coli</i> recombination system, Bacterial plasmids, Lytic cascade and lysogenic repression
27	Feb 6,2022	Sunday
28	Feb 7,2022 to Feb 8,2022	Problems Taken

Dr. Vivek Srivastava
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Head, Dept. of Biotechnology

Dr. Asha
(Assistant Professor)
Subject Tutor

Semester- III (B. Sc. -II) year
Biotechnology Paper VII
Molecular Biology
(BIT 301 L)
Submitted by :- Dr. Asha

Sr. No.	Month	Topics
1	November 9, 2021	Course outcomes discussion
2	November 10, 2021 to November 13,2021	Molecular Biology: Introduction to molecular aspects of life. DNA as the genetic material – experiments proving DNA and RNA as genetic material. Nucleic acids: Structure, function and properties of DNA and RNA. Watson and Crick model of DNA.
3	November 14,2021	Sunday
4	November 15,2021 to November 20,2021	DNA forms (A, B and Z), their characteristic. Different types of RNA, their structure and function.Eukaryotic genomes: Chromosomal organization and structure. Euchromatin, heterochromatin, centromere, telomere.Chromatin structure (nucleosome), histone and non-histone proteins.
5	November 21,2021	Sunday
6	November 22,2021 to November 27,2021	DNA Replication: Central dogma of molecular biology. Semi-conservative mode of DNA replication, experimental proof. Unidirectional and bidirectional mode of DNA replication, theta model.
7	November 28,2021	Sunday
8	November 29, 2021 to 4,December 2021	DNA replication in prokaryotes and eukaryotes, different stages, proteins and enzymes involved. DNA damage and repair: causes of DNA damage, mutations. Repair mechanisms- photo reactivation, excision repair, mismatch repair.
9	5 December 2021	Sunday
10	December 6,2021 to December 11,2021	Transcription in prokaryotes and eukaryotes, diff. stages, mechanism, promoters, transcription factors, RNA polymerases. Post transcriptional modifications- 5' cap formation, 3'-end processing/polyadenylation and gene splicing and generation of mature mRNA..

11	December 12,2021	Sunday
12	December 13,2021 to December 18,2021	Inhibitors of transcription .Genetic Code: concept, elucidation or cracking of genetic code, features of genetic code, Wobble hypothesis. Structure of gene-introns/exons, regulatory sequences, structure of prokaryotic gene
13	December 19,2021	Sunday
14	December 20,2021 to December 23,2021	Translation/Protein synthesis: Mechanism of initiation, elongation and termination of protein synthesis in prokaryotes and eukaryotes. Inhibitors of translation, Post-translational modifications .Regulation of Gene Expression in prokaryotes and eukaryotes, induction and repression, positive and negative regulation. Operon model- lac, ara, trp, catabolite repression, transcription attenuation.
15	December 24, 2021	Assignment Submission.
16	December 24, 2021	Christmis Holiday

Dr. Vivek Srivastava
(Associate Professor)
Head, Dept. of Biotechnology

Dr. Asha
(Assistant Professor)
Subject Tutor

Semester- III (B. Sc. -II) year
Biotechnology Paper VIII
Bio-analytical Techniques
(BIT 302 L)
Submitted by :- Dr. Asha

Sr. No.	Month	Topics
1	December 26,2021 to January 1,2022	Microscopy: Simple microscopy, phase contrast microscopy, Florescence and electron microscopy (TEM and SEM), pH meter.
2	January 2,2022	Sunday
3	January 3,2022 to January 8, 2022	Spectroscopy: Principle and law of absorption, colorimetry, Spectrophotometry (visible, UV, infrared)
4	January 9,2022	Sunday
5	January 10,2022 to January 15,2022	cell fractionation techniques, isolation of sub-cellular organelles and particles, Chromatography: Principle of chromatography, Paper chromatography, thin layer chromatography, column chromatography, silica and gel filtration, affinity and ion exchange chromatography, gas chromatography, HPLC
6	January 16,2022	Sunday
7	January 17,2022 to January 22,2022	Electrophoresis: Introduction to electrophoresis. Starch-gel, polyacrylamide gel (native and SDS-PAGE), agarose-gel electrophoresis, pulse field gel electrophoresis, immuno- electrophoresis, isoelectric focusing, Western blotting
8	January 23,2022	Sunday
9	January 24, 2022	Assessment test.
10	January 25,2022 to January 29,2022	DNA (A, B, Z-DNA) and RNA (rRNA, mRNA, tRNA).
11	January 30,2022	Sunday
12	January 31,2022	Problems Taken and Assign the assignments

13	1,February 2022 to 5 February 2022	Properties of DNA – absorption, denaturation, renaturation, hybridization, T _m /Cot values. Biological importance of ATP and GTP
14	6,February 2022	Sunday
15	7,February 2022to 8,February 2022	Assignment submission and assessment test.

Dr. Vivek Srivastava
(Associate Professor)
Head, Dept. of Biotechnology

Dr. Asha
(Assistant Professor)
Subject Tutor

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021-2022)
Semester- III (M. Sc. -II) year
Submitted By: - Dr. Twinkle
BTL 531: GENETIC ENGINEERING

Sr. No.	Month	Topics
1	November 9, 2021	Course outcomes discussion.
2	November 10, 2021 to November 13,2021	Introduction: Historical background, Restriction enzymes and modifying enzymes, Restriction mapping
3	November 14,2021	Sunday
4	November 15,2021 to November 20,2021	Construction of chimeric DNA- staggered cleavage, Addition of poly dA and dT tails, Blunt end ligation, Gene cloning
5	November 21,2021	Sunday
6	November 22,2021 to November 23,2021	Cloning and Expression Vectors: Vehicles for gene cloning, Plasmids, Bacteriophages, Cosmids and Phagemids as vectors, P1 vectors, F- factor based vectors, Plant and animal viruses as vector,.
7	November 24,2021	Holiday
8	November 25,2021 to November 27,2021	Artificial chromosomes as vectors (YAC, BAC, PAC and MAC vectors), Expression vectors- use of promoters and expression cassettes, Baculoviruses as expression vectors, Virus expression vectors, Binary and shuttle vectors.
9	November 28,2021	Sunday
10	November 29,2021 to 4,December 2021	Isolation Sequencing and Synthesis of Genes: Methods of gene isolation, Construction and screening of genomic and cDNA libraries, Chromosome walking, Chromosome jumping, Transposone tagging,.
11	5,December 2021	Sunday
12	December 6,2021 to December 11,2021	Map based cloning, DNA sequencing Techniques (Maxam Gilbert's chemical degradation methods and Sanger's dideoxy chain termination method), Automated DNA sequencing, Organochemical gene synthesis..

13	December 12,2021	Sunday
14	December 13,2021 to December 18,2021	Molecular Probes and PCR: Molecular probes, Labeling of probes, Radioactive vs Non-radioactive labeling, Uses of molecular probes. Polymerase Chain Reaction- basic principle, Modified PCR.
15	December 19,2021	Sunday
16	December 20,2021 to December 23,2021	Inverse PCR, Anchored PCR, PCR for mutagenesis, asymmetric PCR, RT PCR, PCR walking, Gene cloning Vs. Polymerase chain reaction, Applications of PCR in biotechnology, Ligase chain reaction.
17	December 24,2021	Assignment Submission.
18	December 25,2021	Christmis Holiday.
19.	December 26,2021 to January 1,2022	Presentation
20	January 2,2022	Sunday
21	January 3,2022 to January 8,2022	Molecular Markers and DNA Chip Technology: Molecular Markers- types and applications, Construction of molecular maps (genetic and physical maps), DNA chip Technology & Microarrays (a brief account)
22	January 9,2022	Sunday
23	January 10,2022 to January 15,2022	Genomics and Proteomics: Whole genome sequencing and functional genomics (a brief account), Applications of genomics and Proteomics with special reference to Arabidopsis and Rice.
24	January 16,2022	Sunday
7	January 17,2022 to January 22,2022	Revision
8	January 23,2022	Sunday
	January 24, 2022	Class test
9	January 25,2022 to January 29,2022	Revision.

10	January 30,2022	Sunday
12	31, January 2022 to 5 February 2022	Problem taken .
13	6,February 2022	Sunday
14	7,February 2022to 8,February 2022	Class test.

Dr. Vivek Srivastava
(Associate Professor)
Head, Department of Biotechnology

Dr. Twinkle
(Assistant Professor)
Subject Tutor

DAYANAND COLLEGE, HISAR**Department of Biotechnology****LESSON PLAN (2021-2022)****Semester- III (M. Sc. -II) year****Submitted By: - Dr. Twinkle**

Sr. No.	Month	Topics
1	November 9, 2021	Course outcomes discussion.
2	November 10, 2021 to November 13,2021	Introduction to Bioinformatics: Definition, role, scope and limitation of bioinformatics. Different branches of bioinformatics.
3	November 14,2021	Sunday
4	November 15,2021 to November 20,2021	Terminologies: Internet browser, software, hardware, database, Network, NicNet, Inflibnet, EMBnet, Operating System, algorithm.
5	November 21,2021	Sunday
6	November 22,2021 to November 23,2021	Biological Data Banks: An introduction to data mining and data security, Data warehousing, Data capture, Data Analysis, Data Banks, Gene banks, EBTL nucleotide sequence data bank, Sequence data bank.
7	November 24,2021	Holiday
8	November 25,2021 to November 27,2021	rRNA data Bank, Peptide data bank., Data Bank similarity searches (BLAST, FASTA, PSI-BLAST algorithms multiple), Structural Data Bank (Cambridge small molecules crystal structure data Bank), Calculation of conformational energy of Bio-molecules.
9	November 28,2021	Sunday
10	November 29,2021 to 4,December 2021	Biodiversity Data Bases: Organizing Biological SPP information, Data sets in Biodiversity informatics (Spp 2000, Tree of life, ATCC, NCBI Spp analyst collaboration
11	5,December 2021	Sunday
12	December 6,2021 to December 11,2021	(ICTV, Animal virus information system) a brief account.
13	December 12,2021	Sunday

14	December 13,2021 to December 18,2021	Sequence Analysis: Computational methods and significance, homology algorithms (BLAST) for proteins and nucleic acids, open reading frames, annotations of genes, conserved protein.
15	December 19,2021	Sunday
16	December 20,2021 to December 24,2021	conserved protein motifs related structure / function. Phylogenetic analysis: Introduction and importance, phylogenetic tree, methods of phylogenetic analysis.
17	December 25,2021	Christmis Holiday.
18	December 26,2021 to January 1,2022	Presentation
19	January 2,2022	Sunday
21	January 3,2022 to January 8,2022	Application of Bioinformatics and Scientific Documentation: Virtual library searching Medline, Science citation indexes, Electronic Journals, Grants and finding information. Research documentation.
22	January 9,2022	Sunday
23	January 10,2022 to January 15,2022	preparation of research report, settling up of a laboratory, seminar, paper preparation and presentation. How to write dissertation? Guidelines for writing of literature, materials and method, result, discussion, Presentation and references.
24	January 16,2022	Sunday
7	January 17,2022 to January 22,2022	Revision
8	January 23,2022	Sunday
	January 24, 2022	Class test
9	January 25,2022 to January 29,2022	Revision.
10	January 30,2022	Sunday
12	31, January 2022 to 5 February 2022	Problem taken .

13	6,February 2022	Sunday
14	7,February 2022to 8,February 2022	Class test.

Dr. Vivek Srivastava
(Associate Professor)
Head, Department of Biotechnology

Dr. Twinkle
(Assistant Professor)
Subject Tutor

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021-2022)
Semester- I (M. Sc. -I) year
Submitted By: - Dr. Puneet Beniwal
BTL 511: INTRODUCTORY BIOTECHNOLOGY

S.No.	Date	Topic
	December 21,2021 to December 24,2021	An overview-definition, scope and importance of Biotechnology, Concept of Recombinant DNA technology and Gene Cloning.
	December 25,2021 & December 26, 2021	Christmis Holiday and Sunday.
	December 27,2021 to January 1,2022	A brief account of microbes in industry and agriculture, Metabolic engineering for over production of metabolites.
	January 2,2022	Sunday
	January 3,2022 to January 8,2022	Introduction to plant tissue culture and its applications, Gene transfer methods in plants, Transgenic plants (A brief introduction), Chloroplast and mitochondria engineering.
	January 9,2022	Sunday
	January 10,2022 to January 15,2022	Animal Biotechnology: In-vitro fertilization and embryo transfer in humans and livestock, Transfection techniques and transgenic animals, Animal Cloning
	January 16,2022	Sunday
	January 17,2022 to January 22,2022	Medical Biotechnology: (A brief account) Biotechnology in medicine, Vaccines, Diagnostic, Forensic, Gene therapy, Nano Medicine & Drug Delivery Cell & Tissue Engineering, Stem Cell therapy.
	January 23,2022	Sunday
	January 24, 2022	Assessment test.
	January 25,2022 to January 29,2022	Environmental Biotechnology: (A brief account) Role of biotechnology in pollution control, Sewage treatment, Energy management, Bioremediation, Restoration of degraded lands and Conservation of biodiversity..

	January 30,2022	Sunday
	January 31,2022	Assignment submission
	1,February 2022 to 5 February 2022	Nano Science & Technology: An Overview, Insights and intervention into the Nano world, Important Developments, Societal implications & Ethical issues in Nanotechnology, Applications of Nanobiotechnology in different areas.
16	6,February 2022	Sunday
17	7,February 2022to 8,February 2022	Bioinformatics: (A brief account) Importance, Scope of Bioinformatics, world wide web as a tool, Bioinformatics institutes and databases, Bioinformatics training & limitations. Bio-business and Bio-safety, Biotechnology for developing countries and IPR.
18		

Dr. Vivek Srivastava
(Associate Professor)
Head, Dept. of Biotechnology

Dr. Puneet Beniwal
(Assistant Professor)
Subject Tutor

DAYANAND COLLEGE, HISAR
Department of Biotechnology
LESSON PLAN (2021-2022)
Semester- I (M. Sc. -I) year
Submitted By: - Dr. Puneet Beniwal
BTL 513: CELL BIOLOGY

S.No.	Date	Topic
	December 21,2021 to December 24,2021	Structural organization and function of intracellular organelles: Cell wall, nucleus, mitochondria, Golgi bodies, lysosomes, endoplasmic reticulum.
	December 25,2021 & December 26, 2021	Christmis Holiday and Sunday.
	December 27,2021 to January 1,2022	peroxisomes, plastids, vacuoles, chloroplast, structure &function of cytoskeleton and its role in motility. Membrane structure and function: Structure of model membrane, lipid bilayer and membrane protein diffusion, osmosis, ion channels, active transport.
	January 2,2022	Sunday
	January 3,2022 to January 8,2022	membrane pumps, mechanism of sorting and regulation of intracellular transport, electrical properties of membranes. Cell division and cell cycle: Mitosis and meiosis, their regulation, steps in cell cycle, regulation and control of cell cycle.
	January 9,2022	Sunday
	January 10,2022 to January 15,2022	Cell signaling Hormones and their receptors, cell surface receptor, signaling through G-protein coupled receptors, signal transduction pathways, second messengers and regulation of signaling pathways.
	January 16,2022	Sunday
	January 17,2022 to January 22,2022	Cellular communication: general principles of cell communication, cell adhesion and roles of different adhesion molecules, gap junctions, extracellular matrix, integrins. Neurotransmission and its regulation.
	January 23,2022	Sunday
	January 24, 2022	Assessment test.
	January 25,2022 to January 29,2022	Cancer Genetic rearrangements in progenitor cells, oncogenes, tumor suppressor genes, cancer and the cell cycle, virus-induced cancer, metastasis, interaction of cancer cells

		with normal cells, apoptosis, therapeutic interventions of uncontrolled cell growth
	January 30,2022	Sunday
	January 31,2022	Assignment submission
	1,February 2022 to 5 February 2022	Photosynthesis and Respiration: Photosynthetic apparatus, light reaction, cyclic and noncyclic photoinduced electron flow, C3 and C4 cycle and their regulation and CAM pathway, Photorespiration, dark phase of photosynthesis.
16	6,February 2022	Sunday
17	7,February 2022to 8,February 2022	Problems and Doubts taken.
18		

Dr. Vivek Srivastava
(Associate Professor)
Head, Dept. of Biotechnology

Dr. Puneet Beniwal
(Assistant Professor)
Subject Tutor

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Vinod, Assistant Professor
 Department : Chemistry
 Paper : Inorganic Chemistry
 Subject Code : CCL-504 B

Month	Class	Topic/Chapter covered	Test/assignment
Nov.	BSc-III Sec.- A2 & C	UNIT-I Structure, bonding and properties (acidic/ basic nature, oxidizing/ reducing nature and hydrolysis of the following compounds and their applications in industrial and environmental chemistry wherever applicable: Diborane and concept of multicentre bonding, hydrides of Groups 13 (EH ₃), 14, 15, 16 and 17. Oxides of N and P, Oxoacids of P, S and Cl.	
Dec.	BSc-III Sec.- A2 & C	UNIT-II Halides and oxohalides of P and S (PCl ₃ , PCl ₅ , SOCl ₂ and SO ₂ Cl ₂) Interhalogen compounds. A brief idea of pseudohalides	Test
Jan.	BSc-III Sec.- A2 & C	UNIT-III Noble gases: Rationalization of inertness of noble gases, clathrates, preparation and properties of XeF ₂ , XeF ₄ and XeF ₆ , bonding in these compounds using VBT and shapes of noble gas compounds using VSEPR Theory	Assignment
Feb.	BSc-III Sec.- A2 & C	UNIT-IV Inorganic Polymers: Types of inorganic polymers and comparison with organic polymers, structural features, classification and important applications of silicates. Synthesis, structural features and applications of silicones. Borazines and cyclophosphazenes – preparation, properties and reactions. Bonding in (NPCl ₂) ₃ .	Test & Revision

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : M. L. Garg, Assistant Professor
 Department : Chemistry
 Paper : Inorganic Chemistry
 Subject Code : CCL-504 B

Month	Class	Topic/Chapter covered	Test/assignment
Nov.	BSc-III Sec.- A1 & D	UNIT-I Structure, bonding and properties (acidic/ basic nature, oxidizing/ reducing nature and hydrolysis of the following compounds and their applications in industrial and environmental chemistry wherever applicable: Diborane and concept of multicentre bonding, hydrides of Groups 13 (EH ₃), 14, 15, 16 and 17. Oxides of N and P, Oxoacids of P, S and Cl.	
Dec.	BSc-III Sec.- A1 & D	UNIT-II Halides and oxohalides of P and S (PCl ₃ , PCl ₅ , SOCl ₂ and SO ₂ Cl ₂) Interhalogen compounds. A brief idea of pseudohalides	Test
Jan.	BSc-III Sec.- A1 & D	UNIT-III Noble gases: Rationalization of inertness of noble gases, clathrates, preparation and properties of XeF ₂ , XeF ₄ and XeF ₆ , bonding in these compounds using VBT and shapes of noble gas compounds using VSEPR Theory	Assignment
Feb.	BSc-III Sec.- A1 & D	UNIT-IV Inorganic Polymers: Types of inorganic polymers and comparison with organic polymers, structural features, classification and important applications of silicates. Synthesis, structural features and applications of silicones. Borazines and cyclophosphazenes – preparation, properties and reactions. Bonding in (NPCl ₂) ₃ .	Test & Revision

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Minakshi, Assistant Professor
 Department : Chemistry
 Paper : Inorganic Chemistry
 Subject Code : CCL-503-B

Month	Class	Topic/Chapter covered	Test/assignment
Nov.	BSc-III Sec.- A2 & C	UNIT-I Acids and Bases: Bronsted–Lowry concept, conjugate acids and bases, relative strengths of acids and bases, effects of substituent and solvent, differentiating and levelling solvents. Lewis acid-base concept, classification of Lewis acids and bases, Lux-Flood concept and solvent system concept. Hard and soft acids and bases (HSAB concept), applications of HSAB process.	
Dec.	BSc-III Sec.- A2 & C	UNIT-II General Principles of Metallurgy: Chief modes of occurrence of metals based on standard electrode potentials, Ellingham diagrams for reduction of metal oxides using carbon and carbon monoxide as reducing agents. Hydrometallurgy with reference to cyanide process for gold and silver. Methods of purification of metals (Al, Pb, Ti, Fe, Cu, Ni, Zn, Au): electrolytic refining, zone refining, van Arkel-de Boer process, Parting Process, Mond's process and Kroll Process.	Test
Jan.	BSc-III Sec.- A2 & C	UNIT-III s- and p-Block Elements Periodicity in s- and p-block elements with respect to electronic configuration, atomic and ionic size, ionization enthalpy, electron gain enthalpy, electronegativity (Pauling scale). General characteristics of s-block metals like density, melting and boiling points, flame colour and reducing nature. Oxidation states of s- and p-block elements, inert-pair effect, diagonal relationships and anomalous behaviour of first member of each group. Allotropy in C, P and S.	Assignment
Feb.	BSc-III Sec.- A2 & C	UNIT-IV Complex forming tendency of s block elements and a preliminary idea of crown ethers and cryptates, structures of basic beryllium acetate, salicylaldehyde/ acetylacetonato complexes of Group 1 metals. Solutions of alkali metals in liquid ammonia and their properties. Common features, such as ease of formation, solubility and stability of oxides, peroxides, superoxides, sulphates and carbonates of s-block metals.	Test & Revision

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Monika, Assistant Professor
 Department : Chemistry
 Paper : Inorganic Chemistry
 Subject Code : CCL-503-B

Month	Class	Topic/Chapter covered	Test/assignment
Nov.	BSc-III Sec.- A1 & D	UNIT-I Acids and Bases: Bronsted–Lowry concept, conjugate acids and bases, relative strengths of acids and bases, effects of substituent and solvent, differentiating and levelling solvents. Lewis acid-base concept, classification of Lewis acids and bases, Lux-Flood concept and solvent system concept. Hard and soft acids and bases (HSAB concept), applications of HSAB process.	
Dec.	BSc-III Sec.- A1 & D	UNIT-II General Principles of Metallurgy: Chief modes of occurrence of metals based on standard electrode potentials, Ellingham diagrams for reduction of metal oxides using carbon and carbon monoxide as reducing agents. Hydrometallurgy with reference to cyanide process for gold and silver. Methods of purification of metals (Al, Pb, Ti, Fe, Cu, Ni, Zn, Au): electrolytic refining, zone refining, van Arkel-de Boer process, Parting Process, Mond's process and Kroll Process.	Test
Jan.	BSc-III Sec.- A1 & D	UNIT-III s- and p-Block Elements Periodicity in s- and p-block elements with respect to electronic configuration, atomic and ionic size, ionization enthalpy, electron gain enthalpy, electronegativity (Pauling scale). General characteristics of s-block metals like density, melting and boiling points, flame colour and reducing nature. Oxidation states of s- and p-block elements, inert-pair effect, diagonal relationships and anomalous behaviour of first member of each group. Allotropy in C, P and S.	Assignment
Feb.	BSc-III Sec.- A1 & D	UNIT-IV Complex forming tendency of s block elements and a preliminary idea of crown ethers and cryptates, structures of basic beryllium acetate, salicylaldehyde/ acetylacetonato complexes of Group 1 metals. Solutions of alkali metals in liquid ammonia and their properties. Common features, such as ease of formation, solubility and stability of oxides, peroxides, superoxides, sulphates and carbonates of s-block metals.	Test & Revision

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Dr. Sunayana Saini, Assistant Professor
 Department : Chemistry
 Paper : Physical Chemistry
 Subject Code : CCL-304

Month	Class	Topic/Chapter covered	Test/assignment
Nov.	BSc-II Sec.- C&D	UNIT-I Solutions Thermodynamics of ideal solutions: Ideal solutions and Raoult's law, deviations from Raoult's law – non-ideal solutions. Vapour pressure-composition and temperature composition curves of ideal and non-ideal solutions. Distillation of solutions. Azeotropes. Colligative properties of solutions. Thermodynamic derivations of relation between amount of solute and elevation in boiling point and depression in freezing point. Partial miscibility of liquids: Critical solution temperature; effect of impurity on partial miscibility of liquids. Immiscibility of liquids- Principle of steam distillation.	
Dec.	BSc-II Sec.- C&D	UNIT-II Phase Equilibrium Phases, components and degrees of freedom of a system, criteria of phase equilibrium. Gibbs Phase Rule and its thermodynamic derivation. Derivation of Clausius – Clapeyron equation and its importance in phase equilibria. Phase diagrams of one-component systems (water and sulphur) and two component systems involving eutectics, congruent and incongruent melting points (lead-silver, and Na-K only).	Test
Jan.	BSc-II Sec.- C&D	UNIT-III Conductance Conductivity, equivalent and molar conductivity and their variation with dilution for weak and strong electrolytes. Kohlrausch law of independent migration of ions. Transference number, ionic mobility. Applications of conductance measurements: determination of degree of ionization of weak electrolyte, solubility and solubility products of sparingly soluble salts, ionic product of water, hydrolysis constant of a salt. Conductometric titrations (only acid-base). Concept of pH and pKa, buffer solution, buffer action, Handerson Hazel Blac equation.	Assignment
Feb.	BSc-II Sec.- C&D	UNIT-IV Electrochemistry Reversible and irreversible cells. Concept of EMF of a cell. Measurement of EMF of a cell. Nernst equation and its importance. Types of electrodes. Standard electrode potential. Electrochemical series. Thermodynamics of a reversible cell, calculation of thermodynamic properties: ΔG , ΔH and ΔS from EMF data. Calculation of equilibrium constant from EMF data. Concentration cells with transference and without transference. Liquid junction potential and salt bridge. pH determination using hydrogen electrode and quinhydrone electrode. Potentiometric titrations -qualitative treatment (acid-base and oxidation-reduction only).	Test & Revision

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. April 2022 to June 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Dr. Sushila, Assistant Professor
 Department : Chemistry
 Paper : Inorganic Chemistry
 Subject Code : CCL-304

Month	Class	Topic/Chapter covered	Test/assignment
April	BSc-II Sec.- A1, A2 &F	UNIT-I Solutions Thermodynamics of ideal solutions: Ideal solutions and Raoult's law, deviations from Raoult's law – non-ideal solutions. Vapour pressure-composition and temperature composition curves of ideal and non-ideal solutions. Distillation of solutions. Azeotropes. Colligative properties of solutions. Thermodynamic derivations of relation between amount of solute and elevation in boiling point and depression in freezing point. Partial miscibility of liquids: Critical solution temperature; effect of impurity on partial miscibility of liquids. Immiscibility of liquids- Principle of steam distillation.	
April- May	BSc-II Sec.- A1, A2 &F	UNIT-II Phase Equilibrium Phases, components and degrees of freedom of a system, criteria of phase equilibrium. Gibbs Phase Rule and its thermodynamic derivation. Derivation of Clausius – Clapeyron equation and its importance in phase equilibria. Phase diagrams of one-component systems (water and sulphur) and two component systems involving eutectics, congruent and incongruent melting points (lead-silver, and Na-K only).	Test
May- June	BSc-II Sec.- A1, A2 &F	UNIT-III Conductance Conductivity, equivalent and molar conductivity and their variation with dilution for weak and strong electrolytes. Kohlrausch law of independent migration of ions. Transference number, ionic mobility. Applications of conductance measurements: determination of degree of ionization of weak electrolyte, solubility and solubility products of sparingly soluble salts, ionic product of water, hydrolysis constant of a salt. Conductometric titrations (only acid-base). Concept of pH and pKa, buffer solution, buffer action, Handerson Hazel Blac equation.	Assignment
June	BSc-II Sec.- A1, A2 &F	UNIT-IV Electrochemistry Reversible and irreversible cells. Concept of EMF of a cell. Measurement of EMF of a cell. Nernst equation and its importance. Types of electrodes. Standard electrode potential. Electrochemical series. Thermodynamics of a reversible cell, calculation of thermodynamic properties: ΔG , ΔH and ΔS from EMF data. Calculation of equilibrium constant from EMF data. Concentration cells with transference and without transference. Liquid junction potential and salt bridge. pH determination using hydrogen electrode and quinhydrone electrode. Potentiometric titrations -qualitative treatment (acid-base and oxidation-reduction only).	Test & Revision

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. April 2022 to June 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Sandeep, Assistant Professor
 Department : Chemistry
 Paper : Organic Chemistry
 Subject Code : CCL-305

Month	Class	Topic/Chapter covered	Test/ assignment
April	BSc-II Sec.- A1,D, C	UNIT-I Carboxylic acids and their derivatives Carboxylic acids (aliphatic and aromatic) Preparation: Acidic and Alkaline hydrolysis of esters. Reactions: Hell-Vohlard-Zelinsky Reaction. Carboxylic acid derivatives (aliphatic): (Upto 5 carbons) Preparation: Acid chlorides, Anhydrides, Esters and Amides from acids and their interconversion. Reactions: Comparative study of nucleophilicity of acyl derivatives. Reformatsky Reaction, Perkin condensation.	
April- May	BSc-II Sec.- A1,D, C	UNIT-II Amines and Diazonium Salts Amines (Aliphatic and Aromatic): (Upto 5 carbons) Preparation: from alkyl halides, Gabriel's Phthalimide synthesis, Hofmann Bromamide reaction. Reactions: Hofmann vs. Saytzeff elimination, Carbylamine test, Hinsberg test, with HNO ₂ , Schotten- Baumann Reaction. Electrophilic substitution (case aniline): nitration, bromination, sulphonation. Diazonium salts: Preparation: from aromatic amines. Reactions: conversion to benzene, phenol, dyes.	Test
May- June	BSc-II Sec.- A1,D, C	UNIT-III Amino Acids, Peptides and Proteins: Preparation of Amino Acids: Strecker synthesis using Gabriel's phthalimide synthesis. Zwitterion, Isoelectric point and Electrophoresis. Reactions of Amino acids: ester of -COOH group, acetylation of -NH ₂ group, complexation with Cu ²⁺ ions, ninhydrin test. Overview of Primary, Secondary, Tertiary and Quaternary Structure of proteins. Determination of Primary structure of Peptides by degradation Edmann degradation (N-terminal) and C-terminal (thiohydantoin and with carboxypeptidase enzyme). Synthesis of simple peptides (upto dipeptides) by N-protection (t-butyloxycarbonyl and phthaloyl) & C-activating groups and Merrifield solid-phase synthesis.	Assignment
June	BSc-II Sec.- A1,D, C	UNIT-IV Carbohydrates: Classification, and General Properties, Glucose and Fructose (open chain and cyclic structure), Determination of configuration of monosaccharides, absolute configuration of Glucose and Fructose, Mutarotation, ascending and descending in monosaccharides. Structure of disaccharides (sucrose, cellobiose, maltose, lactose) and polysaccharides (starch and cellulose) excluding their structure elucidation.	Test & Revision

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. April 2022 to June 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Mohit, Assistant Professor
 Department : Chemistry
 Paper : Organic Chemistry
 Subject Code : CCL-305

Month	Class	Topic/Chapter covered	Test/assignment
April	BSc-II Sec.- A2 & F	UNIT-I Carboxylic acids and their derivatives Carboxylic acids (aliphatic and aromatic) Preparation: Acidic and Alkaline hydrolysis of esters. Reactions: Hell-Vohlar-Zelinsky Reaction. Carboxylic acid derivatives (aliphatic): (Upto 5 carbons) Preparation: Acid chlorides, Anhydrides, Esters and Amides from acids and their interconversion. Reactions: Comparative study of nucleophilicity of acyl derivatives. Reformatsky Reaction, Perkin condensation.	
April- May	BSc-II Sec.- A2 & F	UNIT-II Amines and Diazonium Salts Amines (Aliphatic and Aromatic): (Upto 5 carbons) Preparation: from alkyl halides, Gabriel's Phthalimide synthesis, Hofmann Bromamide reaction. Reactions: Hofmann vs. Saytzeff elimination, Carbylamine test, Hinsberg test, with HNO ₂ , Schotten- Baumann Reaction. Electrophilic substitution (case aniline): nitration, bromination, sulphonation. Diazonium salts: Preparation: from aromatic amines. Reactions: conversion to benzene, phenol, dyes.	Test
May- June	BSc-II Sec.- A2 & F	UNIT-III Amino Acids, Peptides and Proteins: Preparation of Amino Acids: Strecker synthesis using Gabriel's phthalimide synthesis. Zwitterion, Isoelectric point and Electrophoresis. Reactions of Amino acids: ester of -COOH group, acetylation of -NH ₂ group, complexation with Cu ²⁺ ions, ninhydrin test. Overview of Primary, Secondary, Tertiary and Quaternary Structure of proteins. Determination of Primary structure of Peptides by degradation Edmann degradation (N-terminal) and C-terminal (thiohydantoin and with carboxypeptidase enzyme). Synthesis of simple peptides (upto dipeptides) by N-protection (t-butyloxycarbonyl and phthaloyl) & C-activating groups and Merrifield solid-phase synthesis.	Assignment
June	BSc-II Sec.- A2 & F	UNIT-IV Carbohydrates: Classification, and General Properties, Glucose and Fructose (open chain and cyclic structure), Determination of configuration of monosaccharides, absolute configuration of Glucose and Fructose, Mutarotation, ascending and descending in monosaccharides. Structure of disaccharides (sucrose, cellobiose, maltose, lactose) and polysaccharides (starch and cellulose) excluding their structure elucidation.	Test & Revision

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Dr. Archana Malik, Assistant Professor
 Department : Chemistry
 Subject : Organic Chemistry
 Subject Code : CCL-105

Month	Class	Topic/Chapter covered	Test/assign.
Nov.	BSc-I Sec.- C & D	Fundamentals of Organic Chemistry (7 Hours) Physical Effects, Electronic Displacements: Inductive Effect, Electromeric Effect, Resonance and Hyperconjugation. Cleavage of Bonds: Homolysis and Heterolysis. Structure, shape and reactivity of organic molecules: Nucleophiles and electrophiles. Reactive Intermediates: Carbocations, Carbanions and free radicals. Strength of organic acids and bases: Comparative study with emphasis on factors affecting pK values. Aromaticity: Benzenoids and Hückel's rule.	
Dec.	BSc-I Sec.- C & D	Stereochemistry (8 Hours) Conformations with respect to ethane, butane and cyclohexane. Interconversion of Wedge Formula, Newmann, Sawhorse and Fischer representations. Concept of chirality (upto two carbon atoms). Configuration: Geometrical and Optical isomerism, Enantiomerism, Diastereomerism and Meso compounds). Threo and erythro; D and L; cis - trans nomenclature; CIP Rules: R/ S (for upto 2 chiral carbon atoms) and E /Z Nomenclature (for upto two C=C systems).	Test
Jan.	BSc-I Sec.- C & D	unctional group approach for the following reactions (preparations & reactions) to be studied in context to their structure. Alkanes: (Upto 5 Carbons). Preparation: Catalytic hydrogenation, Wurtz reaction, Kolbe's synthesis, from Grignard reagent. Reactions: Free radical Substitution: Halogenation. Alkenes: (Upto 5 Carbons) Preparation: Elimination reactions: Dehydration of alkenes and dehydrohalogenation of alkyl halides (Saytzeff's rule); cis alkenes (Partial catalytic hydrogenation) and trans alkenes (Birch reduction). Reactions: cis- addition (alk. KMnO ₄) and trans-addition (bromine), Addition of HX (Markownikoff's and anti-Markownikoff's addition), Hydration, Ozonolysis, Oxymecuration-demercuration, Hydroboration-oxidation.	Assignment
Feb.	BSc-I Sec.- C & D	Aliphatic Hydrocarbons-II (7 Hours) Functional group approach for the following reactions (preparations & reactions) to be studied in context to their structure. Alkynes: (Upto 5 Carbons) Preparation: Acetylene from CaC ₂ and conversion into higher alkynes; by dehalogenation of tetra halides and dehydrohalogenation of vicinal-dihalides. Reactions: formation of metal acetylides, addition of bromine and alkaline KMnO ₄ , Ozonolysis and oxidation with hot alk. KMnO ₄	Test

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Ms. Diksha, Assistant Professor
 Department : Chemistry
 Subject : Organic Chemistry
 Subject Code : CCL-105

Month	Class	Topic/Chapter covered	Test/assign.
Nov.	BSc-I Sec.- A1 & A2	Fundamentals of Organic Chemistry (7 Hours) Physical Effects, Electronic Displacements: Inductive Effect, Electromeric Effect, Resonance and Hyperconjugation. Cleavage of Bonds: Homolysis and Heterolysis. Structure, shape and reactivity of organic molecules: Nucleophiles and electrophiles. Reactive Intermediates: Carbocations, Carbanions and free radicals. Strength of organic acids and bases: Comparative study with emphasis on factors affecting pK values. Aromaticity: Benzenoids and Hückel's rule.	
Dec.	BSc-I Sec.- A1 & A2	Stereochemistry (8 Hours) Conformations with respect to ethane, butane and cyclohexane. Interconversion of Wedge Formula, Newmann, Sawhorse and Fischer representations. Concept of chirality (upto two carbon atoms). Configuration: Geometrical and Optical isomerism, Enantiomerism, Diastereomerism and Meso compounds). Threo and erythro; D and L; cis - trans nomenclature; CIP Rules: R/ S (for upto 2 chiral carbon atoms) and E /Z Nomenclature (for upto two C=C systems).	Test
Jan.	BSc-I Sec.- A1 & A2	unctional group approach for the following reactions (preparations & reactions) to be studied in context to their structure. Alkanes: (Upto 5 Carbons). Preparation: Catalytic hydrogenation, Wurtz reaction, Kolbe's synthesis, from Grignard reagent. Reactions: Free radical Substitution: Halogenation. Akenes: (Upto 5 Carbons) Preparation: Elimination reactions: Dehydration of alkenes and dehydrohalogenation of alkyl halides (Saytzeff's rule); cis alkenes (Partial catalytic hydrogenation) and trans alkenes (Birch reduction). Reactions: cis- addition (alk. KMnO ₄) and trans-addition (bromine), Addition of HX (Markownikoff's and anti-Markownikoff's addition), Hydration, Ozonolysis, Oxymecuration-demercuration, Hydroboration-oxidation.	Assignment
Feb.	BSc-I Sec.- A1 & A2	Aliphatic Hydrocarbons-II (7 Hours) Functional group approach for the following reactions (preparations & reactions) to be studied in context to their structure. Alkynes: (Upto 5 Carbons) Preparation: Acetylene from CaC ₂ and conversion into higher alkynes; by dehalogenation of tetra halides and dehydrohalogenation of vicinal-dihalides. Reactions: formation of metal acetylides, addition of bromine and alkaline KMnO ₄ , Ozonolysis and oxidation with hot alk. KMnO ₄	Test

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Ms. Muskan, Assistant Professor
 Department : Chemistry
 Subject : Organic Chemistry
 Subject Code : CCL-105

Month	Class	Topic/Chapter covered	Test/assign.
Nov.	BSc-I Sec.- F	Fundamentals of Organic Chemistry (7 Hours) Physical Effects, Electronic Displacements: Inductive Effect, Electromeric Effect, Resonance and Hyperconjugation. Cleavage of Bonds: Homolysis and Heterolysis. Structure, shape and reactivity of organic molecules: Nucleophiles and electrophiles. Reactive Intermediates: Carbocations, Carbanions and free radicals. Strength of organic acids and bases: Comparative study with emphasis on factors affecting pK values. Aromaticity: Benzenoids and Hückel's rule.	
Dec.	BSc-I Sec.- F	Stereochemistry (8 Hours) Conformations with respect to ethane, butane and cyclohexane. Interconversion of Wedge Formula, Newmann, Sawhorse and Fischer representations. Concept of chirality (upto two carbon atoms). Configuration: Geometrical and Optical isomerism, Enantiomerism, Diastereomerism and Meso compounds). Threo and erythro; D and L; cis - trans nomenclature; CIP Rules: R/ S (for upto 2 chiral carbon atoms) and E /Z Nomenclature (for upto two C=C systems).	Test
Jan.	BSc-I Sec.- F	unctional group approach for the following reactions (preparations & reactions) to be studied in context to their structure. Alkanes: (Upto 5 Carbons). Preparation: Catalytic hydrogenation, Wurtz reaction, Kolbe's synthesis, from Grignard reagent. Reactions: Free radical Substitution: Halogenation. Alkenes: (Upto 5 Carbons) Preparation: Elimination reactions: Dehydration of alkenes and dehydrohalogenation of alkyl halides (Saytzeff's rule); cis alkenes (Partial catalytic hydrogenation) and trans alkenes (Birch reduction). Reactions: cis- addition (alk. KMnO ₄) and trans-addition (bromine), Addition of HX (Markownikoff's and anti-Markownikoff's addition), Hydration, Ozonolysis, Oxymercuration-demercuration, Hydroboration-oxidation.	Assignment
Feb.	BSc-I Sec.- F	Aliphatic Hydrocarbons-II (7 Hours) Functional group approach for the following reactions (preparations & reactions) to be studied in context to their structure. Alkynes: (Upto 5 Carbons) Preparation: Acetylene from CaC ₂ and conversion into higher alkynes; by dehalogenation of tetra halides and dehydrohalogenation of vicinal-dihalides. Reactions: formation of metal acetylides, addition of bromine and alkaline KMnO ₄ , Ozonolysis and oxidation with hot alk. KMnO ₄	Test

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Dr. Sunita Lega, Assistant Professor
 Department : Chemistry
 Subject : Inorganic Chemistry
 Subject Code : CCL-104

Month	Class	Topic/Chapter covered	Test/assignment
Nov.	BSc-I Sec.- & A2 A1	Atomic Structure-I (8 Hours) Review of: Bohr's theory and its limitations, dual behaviour of matter and radiation, de Broglie's relation, Heisenberg Uncertainty principle. Hydrogen atom spectra. Need of a new approach to Atomic structure. What is Quantum mechanics? Time independent Schrodinger equation and meaning of various terms in it. Significance of ψ and ψ^2 , Schrodinger equation for hydrogen atom. Radial and angular parts of the hydrogenic wavefunctions (atomic orbitals) and their variations for $1s$, $2s$, $2p$, $3s$, $3p$ and $3d$ orbitals (Only graphical representation).	
Dec.	BSc-I Sec.- & A2 A1	Atomic Structure-II (7 Hours) Radial and angular nodes and their significance. Radial distribution functions and the concept of the most probable distance with special reference to $1s$ and $2s$ atomic orbitals. Significance of quantum numbers, orbital angular momentum and quantum numbers ml and ms . Shapes of s , p and d atomic orbitals, nodal planes. Discovery of spin, spin quantum number (s) and magnetic spin quantum number (ms). Rules for filling electrons in various orbitals, Electronic configurations of the atoms. Stability of half-filled and completely filled orbitals, concept of exchange energy. Relative energies of atomic orbitals, Anomalous electronic configurations.	Test
Jan.	BSc-I Sec.- & A2 A1	Chemical Bonding (8 Hours) <i>Ionic Bonding:</i> General characteristics of ionic bonding. Energy considerations in ionic bonding, lattice energy and solvation energy and their importance in the context of stability and solubility of ionic compounds. Statement of Born-Landé equation for calculation of lattice energy, Born-Haber cycle and its applications, polarizing power and polarizability. Fajan's rules, ionic character in covalent compounds, bond moment, dipole moment and percentage ionic character. <i>Covalent bonding:</i> VB Approach: Shapes of some inorganic molecules and ions on the basis of VSEPR and hybridization with suitable examples of linear, trigonal planar, square planar, tetrahedral, trigonal bipyramidal and octahedral arrangements. Concept of resonance and resonating structures in various inorganic and organic compounds.	Assignment
Feb.	BSc-I Sec.- & A2 A1	Molecular Structure (7 Hours) MO Approach: Rules for the LCAO method, bonding and antibonding MOs and their characteristics for $s-s$, $s-p$ and $p-p$ combinations of atomic orbitals, nonbonding combination of orbitals, MO treatment of homonuclear diatomic molecules of 1st and 2nd periods (including idea of $s-p$ mixing) and heteronuclear diatomic molecules such as CO, NO and NO+. Comparison of VB and MO approaches	Test

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Muskan, Assistant Professor
 Department : Chemistry
 Subject : Inorganic Chemistry
 Subject Code : CCL-104

Month	Class	Topic/Chapter covered	Test/assignment
Nov.	BSc-I Sec.- F	Atomic Structure-I (8 Hours) Review of: Bohr's theory and its limitations, dual behaviour of matter and radiation, de Broglie's relation, Heisenberg Uncertainty principle. Hydrogen atom spectra. Need of a new approach to Atomic structure. What is Quantum mechanics? Time independent Schrodinger equation and meaning of various terms in it. Significance of ψ and ψ^2 , Schrodinger equation for hydrogen atom. Radial and angular parts of the hydrogenic wavefunctions (atomic orbitals) and their variations for $1s$, $2s$, $2p$, $3s$, $3p$ and $3d$ orbitals (Only graphical representation).	
Dec.	BSc-I Sec.- F	Atomic Structure-II (7 Hours) Radial and angular nodes and their significance. Radial distribution functions and the concept of the most probable distance with special reference to $1s$ and $2s$ atomic orbitals. Significance of quantum numbers, orbital angular momentum and quantum numbers ml and ms . Shapes of s , p and d atomic orbitals, nodal planes. Discovery of spin, spin quantum number (s) and magnetic spin quantum number (ms). Rules for filling electrons in various orbitals, Electronic configurations of the atoms. Stability of half-filled and completely filled orbitals, concept of exchange energy. Relative energies of atomic orbitals, Anomalous electronic configurations.	Test
Jan.	BSc-I Sec.- F	Chemical Bonding (8 Hours) <i>Ionic Bonding:</i> General characteristics of ionic bonding. Energy considerations in ionic bonding, lattice energy and solvation energy and their importance in the context of stability and solubility of ionic compounds. Statement of Born-Landé equation for calculation of lattice energy, Born-Haber cycle and its applications, polarizing power and polarizability. Fajan's rules, ionic character in covalent compounds, bond moment, dipole moment and percentage ionic character. <i>Covalent bonding:</i> VB Approach: Shapes of some inorganic molecules and ions on the basis of VSEPR and hybridization with suitable examples of linear, trigonal planar, square planar, tetrahedral, trigonal bipyramidal and octahedral arrangements. Concept of resonance and resonating structures in various inorganic and organic compounds.	Assignment
Feb.	BSc-I Sec.- F	Molecular Structure (7 Hours) MO Approach: Rules for the LCAO method, bonding and antibonding MOs and their characteristics for $s-s$, $s-p$ and $p-p$ combinations of atomic orbitals, nonbonding combination of orbitals, MO treatment of homonuclear diatomic molecules of 1st and 2nd periods (including idea of $s-p$ mixing) and heteronuclear diatomic molecules such as CO, NO and NO+. Comparison of VB and MO approaches	Test

Signature of Teacher Concerned with date

Lesson planning for the semester started w.e.f. Nov. 2021 to Feb. 2022

Name of Institute : Dayanand College, Hisar
 Name of the teacher with designation : Laxmi, Assistant Professor
 Department : Chemistry
 Subject : Inorganic Chemistry
 Subject Code : CCL-104

Month	Class	Topic/Chapter covered	Test/assignment
Nov.	BSc-I Sec.- C & D	Atomic Structure-I (8 Hours) Review of: Bohr's theory and its limitations, dual behaviour of matter and radiation, de Broglie's relation, Heisenberg Uncertainty principle. Hydrogen atom spectra. Need of a new approach to Atomic structure. What is Quantum mechanics? Time independent Schrodinger equation and meaning of various terms in it. Significance of ψ and ψ^2 , Schrodinger equation for hydrogen atom. Radial and angular parts of the hydrogenic wavefunctions (atomic orbitals) and their variations for $1s$, $2s$, $2p$, $3s$, $3p$ and $3d$ orbitals (Only graphical representation).	
Dec.	BSc-I Sec.- C & D	Atomic Structure-II (7 Hours) Radial and angular nodes and their significance. Radial distribution functions and the concept of the most probable distance with special reference to $1s$ and $2s$ atomic orbitals. Significance of quantum numbers, orbital angular momentum and quantum numbers ml and ms . Shapes of s , p and d atomic orbitals, nodal planes. Discovery of spin, spin quantum number (s) and magnetic spin quantum number (ms). Rules for filling electrons in various orbitals, Electronic configurations of the atoms. Stability of half-filled and completely filled orbitals, concept of exchange energy. Relative energies of atomic orbitals, Anomalous electronic configurations.	Test
Jan.	BSc-I Sec.- C & D	Chemical Bonding (8 Hours) <i>Ionic Bonding:</i> General characteristics of ionic bonding. Energy considerations in ionic bonding, lattice energy and solvation energy and their importance in the context of stability and solubility of ionic compounds. Statement of Born-Landé equation for calculation of lattice energy, Born-Haber cycle and its applications, polarizing power and polarizability. Fajan's rules, ionic character in covalent compounds, bond moment, dipole moment and percentage ionic character. <i>Covalent bonding:</i> VB Approach: Shapes of some inorganic molecules and ions on the basis of VSEPR and hybridization with suitable examples of linear, trigonal planar, square planar, tetrahedral, trigonal bipyramidal and octahedral arrangements. Concept of resonance and resonating structures in various inorganic and organic compounds.	Assignment
Feb.	BSc-I Sec.- C & D	Molecular Structure (7 Hours) MO Approach: Rules for the LCAO method, bonding and antibonding MOs and their characteristics for $s-s$, $s-p$ and $p-p$ combinations of atomic orbitals, nonbonding combination of orbitals, MO treatment of homonuclear diatomic molecules of 1st and 2nd periods (including idea of $s-p$ mixing) and heteronuclear diatomic molecules such as CO, NO and NO+. Comparison of VB and MO approaches	Test

Signature of Teacher Concerned with date

Subject Lesson Plan (Nov. 2021- Feb. 2022)

Mrs. Rakhi

Assistant Professor, Department of Environmental Studies,

Dayanand College, Hisar

Environmental Studies (EVS-201-L)

B.Sc 1st (Medical (A₁), Non medical (F) B.Com.1st (B, D),

BCA1st and BBA1st

Months	Theory (1-6 Days)
November	Some basic concept of Environment Studies- Definition, Principles and Scope of Environmental Science. Structure and composition of atmosphere, hydrosphere, lithosphere and biosphere. Environmental education and awareness. Environmental ethics.
December	Natural resources- Forest resources, Water resource, Mineral resource, Soil resource, Energy resource and Food resources. Environmental Pollution and Control- Air Pollution: Sources and types of Pollutants, Noise Pollution, Water Pollution Soil Pollution, Thermal, Marine Pollution and Radioactive. Solid and Hazardous Waste Management.
January	Contemporary Environmental Issues- Global Environmental Issues – Biodiversity loss, Climate change, Ozone layer depletion. Sea level rise. International efforts for environmental protection. Environmental Biology- Ecology, Ecosystem Structure and functions: Structures - Biotic and Abiotic components. Functions - Energy flow in ecosystems, energy flow models, food chains and food webs. Biogeochemical cycles, Ecological succession. Ecosystem services. Basis of Ecosystem classification. Types of Ecosystem.
February	Biodiversity and its conservation: Definition types, importance of biodiversity and threats to biodiversity. Hotspots in India. Strategies for biodiversity conservation: in situ, ex situ and in vitro conservation. National parks, Sanctuaries, Protected areas and Sacred groves in India. Endangered and Threatened flora and fauna of India. Population ecology: Characteristics of population, concept of carrying capacity, population growth and regulations. Revision and Test

Subject Lesson Plan (Nov. 2021- Feb. 2022)

Dr. Minakshi Arya
Assistant Professor, Department of Environmental Studies,
Dayanand College, Hisar

Environmental Studies (EVS-201-L)
B. Sc 1st (Biotechnology, Medical (A₂), Non-medical (E,D))
B.Com.1st (A,C)

Months	Theory (1-6 Days)
November	Some basic concept of Environment Studies- Definition, Principles and Scope of Environmental Science. Structure and composition of atmosphere, hydrosphere, lithosphere and biosphere. Environmental education and awareness. Environmental ethics.
December	Natural resources- Forest resources, Water resource, Mineral resource, Soil resource, Energy resource and Food resources. Environmental Pollution and Control- Air Pollution: Sources and types of Pollutants, Noise Pollution, Water Pollution Soil Pollution, Thermal, Marine Pollution and Radioactive. Solid and Hazardous Waste Management.
January	Contemporary Environmental Issues- Global Environmental Issues – Biodiversity loss, Climate change, Ozone layer depletion. Sea level rise. International efforts for environmental protection. Environmental Biology- Ecology, Ecosystem Structure and functions: Structures - Biotic and Abiotic components. Functions - Energy flow in ecosystems, energy flow models, food chains and food webs. Biogeochemical cycles, Ecological succession. Ecosystem services. Basis of Ecosystem classification. Types of Ecosystem.
February	Biodiversity and its conservation: Definition types, importance of biodiversity and threats to biodiversity. Hotspots in India. Strategies for biodiversity conservation: in situ, ex situ and in vitro conservation. National parks, Sanctuaries, Protected areas and Sacred groves in India. Endangered and Threatened flora and fauna of India. Population ecology: Characteristics of population, concept of carrying capacity, population growth and regulations. Revision and Test

Subject Lesson Plan (Nov, 2021 to
January, 2022)

Manoj Kumar

Assistant Professor, Department of
Electronics, Dayanand College, Hisar

B.Sc.-5th Semester Electronics

Subject: Electronic Instrumentation - I
CEL-503(i)

Class	Month	Topic	Assignment/Test
B.Sc.-5 th Semester	2 nd week Nov 2021 to 3 rd week of Nov 2021	Accuracy and precision. Significant figures. Error and uncertainty analysis. Shielding and grounding. Electromagnetic Interference. DC measurement-ammeter, voltmeter, ohm meter, AC measurement.	
B.Sc.-5 th Semester	4 th week Nov 2021 to 1 st week of Dec 2021	Digital voltmeter systems . Digital Multimeter - Block diagram principle of measurement of I, V, C. Accuracy and resolution of measurement. Measurement of Impedance , Measurement of Self Inductance , Measurement of Capacitance , Measurement of frequency.	1 st Assignment
B.Sc.-5 th Semester	2 nd week of Dec 2021 to 3 rd week of Dec 2021	Block Diagram, CRT, Vertical Deflection, Horizontal Deflection. Screens for CRT, Oscilloscope probes, measurement of voltage, frequency and phase by Oscilloscope. Digital Storage Oscilloscopes. LCD display for instruments Function generator, Pulse Generator.	2 nd Assignment
B.Sc.-5 th Semester	4 th week of Dec 2021 to 1 st week of Jan 2022	Block Diagram of a Power Supply, Qualitative idea of C and L Filters. IC Regulators , Line and load regulation, Short circuit protection. Idea of switched mode power supply and uninterrupted power supply.	Test
B.Sc.-5 th Semester	2 nd week of Jan 2022 onwards	Revision	

Subject Lesson Plan (Nov, 2021 to
January, 2022)

Manoj Kumar

Assistant Professor, Department of
Electronics, Dayanand College, Hisar

B.Sc.-5th Semester Electronics
Subject: Electronic Instrumentation – II
CEL-504(i)

Class	Month	Topic	Assignment/Test
B.Sc.-5 th Semester	2 nd week Nov 2021 to 3 rd week of Nov 2021	Basic Principles of phase locked loop , Phase detector, Voltage Controlled Oscillator , lock and capture. Basic idea of PLL IC.	
B.Sc.-5 th Semester	4 th week Nov 2021 to 1 st week of Dec 2021	Lock-in-amplifier, Idea of techniques for sum and averaging of signals. Introduction, Interfacing techniques , Idea about Arduino microcontroller and interfacing software like LABVIEW.	1 st Assignment
B.Sc.-5 th Semester	2 nd week of Dec 2021 to 3 rd week of Dec 2021	Classification of transducers, Basic requirement of transducers, Active and Passive transducers, Resistive and Capacitive transducers.	2 nd Assignment
B.Sc.-5 th Semester	4 th week of Dec 2021 to 1 st week of Jan 2022	Inductive & piezoelectric transducers. Measurement of temperature , Light transducers.	Test
B.Sc.-5 th Semester	2 nd week of Jan 2022 onwards	Revision	

Subject Lesson Plan (Nov, 2021 to
January, 2022)

Manoj Kumar

Assistant Professor, Department of
Electronics, Dayanand College, Hisar

B.Sc.-5th Semester Electronics
Subject: Design and Fabrication of Printed
Circuit Boards, CEL 505(i)

Class	Month	Topic	Assignment\Test
B.Sc.-5 th Semester	2 nd week Nov 2021 to 3 rd week of Nov 2021	PCB Advantages, components of PCB, Electronic components, Microprocessors and Microcontrollers, IC's, Surface Mount Devices , Data sheets, Classification of PCB- single, double, multilayer and flexible boards.	
B.Sc.-5 th Semester	4 th week Nov 2021 to 1 st week of Dec 2021	Manufacturing of PCB, PCB standards. Schematic diagram, General, Mechanical and Electrical design considerations, Placing and Mounting of components, Conductor spacing, routing guidelines, heat sinks and package density, Net list, creating components for library, Tracks, Pads, Vias, power plane, grounding.	1 st Assignment
B.Sc.-5 th Semester	2 nd week of Dec 2021 to 3 rd week of Dec 2021	Design automation, Design Rule Checking, Exporting Drill and Gerber Files, Drills, Footprints and Libraries, Adding and Editing Pins, copper clad laminates, materials of copper clad laminates, properties of laminates , types of laminates, Film master preparation, Image transfer, photo printing, Screen Printing.	2 nd Assignment
B.Sc.-5 th Semester	4 th week of Dec 2021 to 1 st week of Jan 2022	Plating techniques etching techniques, Mechanical Machining operations, Lead cutting and Soldering Techniques, Testing and quality controls.	Test
B.Sc.-5 th Semester	2 nd week of Jan 2022 onwards	Revision	

DEPARTMENT OF ELECTRONICS
DAYANAND COLLEGE, HISAR
LESSON PLAN SESSION 2021-22

Name of Faculty Member: Monu Kumari
Designation: Assistant Professor, Department of Electronics
Class: B.Sc. II Electronics
Semester: III
Paper: Paper I & PAPER II

Nomenclature of Paper: CEL-304 –COMMUNICATION ELECTRONICS(I)
 CEL-305 – MICROPROCESSOR

Month	Class	Topic/Chapter	Test/Assignment
Nov, 2022	B.Sc. 2 ND	<p style="text-align: center;">PAPER-I UNIT-I</p> <p>Introduction to communication – means and modes. Need for modulation. Block diagram of an electronic communication system. Brief idea of frequency allocation for radio communication system in India (TRAI). Electromagnetic communication spectrum, band designations and usage. Channels and base-band signals. Concept of Noise, signal-to-noise (S/N) ratio.</p> <p style="text-align: center;">PAPER-II UNIT-I</p> <p>Input/Output Devices, Data storage (idea of RAM & ROM), Memory organization & addressing, Memory interfacing and Memory mapping,</p>	Assignment I
Dec, 2022		<p style="text-align: center;">PAPER-II UNIT-II</p> <p>Block diagram of 8085, Pin diagram of 8085 Stack memory, Program counter, Hardware and software interrupts</p> <p style="text-align: center;">PAPER-I UNIT-II</p> <p>Amplitude Modulation, modulation index and frequency spectrum. Generation of AM (Emitter Modulation), Amplitude Demodulation (diode detector), Concept of Single side band generation and detection.</p>	Assignment II Class test-I

<p>Jan, 2022</p>		<p style="text-align: center;">PAPER-I UNIT-III</p> <p>Frequency Modulation (FM) and Phase Modulation (PM), modulation index and frequency spectrum, equivalence between FM and PM, Generation of FM using VCO, FM detector (slope detector), Qualitative idea of Super heterodyne receiver.</p> <p style="text-align: center;">PAPER –II UNIT-III</p> <p>Instruction classification, Instructions set (Data transfer including stacks. Arithmetic, logical, branch, and control instructions). Subroutines, delay loops. Timing & Control circuitry. Timing states. Instruction cycle, Timing diagram of MOV and MVI.</p>	<p>Class test-II</p>
<p>Feb, 2022</p>		<p style="text-align: center;">PAPER –II UNIT-IV</p> <p>Embedded systems and general-purpose computer systems. Architecture of embedded system. Classifications, applications and purpose of embedded systems.</p> <p style="text-align: center;">PAPER-I UNIT-IV</p> <p>Channel capacity, Sampling theorem, Basic Principles- PAM, PWM, PPM modulation and detection technique for PAM only, Multiplexing.</p> <p>Revision and preparation for examination</p>	

MONU KUMARI
Signature of the teacher

DEPARTMENT OF ELECTRONICS
DAYANAND COLLEGE, HISAR
LESSON PLAN SESSION 2021-22

Name of Faculty Member: RAJESH KAD
Designation: Associate Professor, Department of Electronics
Class: B.Sc. I Electronics
Semester: Ist
Paper: Paper I & II
Nomenclature of Paper: CEL-104 - NETWORK ANALYSIS
AND ELECTRONIC DEVICES
CEL-105 - ANALOG ELECTROICS

Month	Class	Topic/Chapter	Test/Assignment
Nov, 2021	B.Sc. I Electronics	CIRCUIT ANALYSIS: Paper-I Concept of voltage and current sources , Kirchhoff's current and voltage law, Mesh and Node analysis.	
Dec, 2021		NETWORKS:Paper-I Star and Delta networks, Star-Delta Conversion, Principal of Duality, Superposition Theorem, Thevenin and Norton's Theorem JUNCTION DIODE:Paper II PN junction diode (Ideal and practical) constructions,Formation of Depletion Layer,Diode Equation and I-V characteristics,Idea of static and dynamic resistance, dc load line analysis, Quiescent (Q) point. Zener diode, Reverse saturation current, Zener and avalanche breakdown. Qualitative idea of Schottky diode. JUNCTION DIODE APPLICATION Rectifiers-Half wave rectifier, Full wave rectifiers (center tapped and bridge), circuit diagrams, working and waveforms, ripple factor and efficiency. Filter-Shunt capacitor filter, its role in power supply, output waveform, and working.Regulation-Line and load regulation, Zener diode as voltage regulator, and explanation for load and line regulation	Assignment I

<p>Jan, 2022</p>		<p>NETWORKS:PaperI Reciprocity Theorem. Maximum Power Transfer Theorem. Two Port Networks: h, y and z parameters and their conversion. BIPOLAR JUNCTION TRANSISTOR:PaperII Review of the characteristics of transistor in CE and CB configurations, Regions of operation (active, cut off and saturation), Current gains α and β. Relations between α and β dc load line and Q point. Transistor biasing and Stabilization circuits- Fixed Bias and Voltage Divider Bias. Thermal runaway, stability and stability factor S.</p>	<p>Assignment II Class test-I</p>
<p>Feb, 2022</p>		<p>UNIPOLAR DEVICES:Paper-I JFET- Construction, working and I-V characteristics (output and transfer), Pinchoff voltage. UJT, basic construction, working, equivalent circuit and I-V characteristics. Transistor as a two port network, h-parameter equivalent circuit. Small signal analysis of single stage CE amplifier. Input and Output impedance, Current and Voltage gains. Class A, B and C Amplifiers. AMPLIFIERS:Paper-II Transistor as a two port network, h-parameter equivalent circuit, Small signal analysis of a single stage CE amplifier, Input and output impedance, Current and voltage gain, class A, B and C amplifiers. CASCADED AMPLIFIERS:Paper-II Two stage RC Coupled Amplifier and its Frequency Response.</p>	
<p>Mar, 2022</p>		<p>FEEDBACK IN AMPLIFIERS: Paper-II Concept of feedback, negative and positive feedback, advantages of negative feedback (Qualitative only). Sinusoidal Oscillators: Barkhausen</p>	<p>Class Test-2</p>

		critterion for sustained oscillations. Phase shift and Colpitt's oscillator. Determination of Frequency and Condition of oscillation. Revision and preparation for examination	
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RAJESH KAD
Signature of the teacher

DEPARTMENT OF GEOGRAPHY, DAYANAND COLLEGE, HISAR

Subject Lesson Plan (November 2021-February 2022)

Mrs. Manju Sharma

Assistant Professor, Department of Geography,

B.A. 1st Semester, Section: E, Geography of India (GEOG-101)

Months	Theory (1-6 Days)
November	India: Location, Size, Extent, India's Frontiers
	Space Relation, Neighbouring Countries, Geographical Diversity
	Determinants of Geographical Regional Diversity
	Strategic Importance of location, Unity in Diversity
	Relief Structure: Introduction, types and classifications
December	Geographical Division of North and North-eastern Mountains
	Location and Coverage, Origin of Himalayas
	Regional Division of Himalayas
	Differentiation between Eastern and Western Himalayas
	Importance of Himalayas
	Map Work: Mountains Divisions, Ridges, Peaks Passes and G.D.
	Northern Plain: Introduction, Location and extent
	Great Plain: Physical Classification and Features
	Regional Categorization of northern Plain
	Importance of Plain, Map Work for Plain Divisions
	Group Discussions
	The Peninsular Plateau: Shape, Size and Structure
	Sub-divisions of Plateau
	Origin and Importance
	Great Indian Desert, Coastal Plains
	Islands of India, Map Work
	Drainage: Introduction, pattern
	Indian Drainage: Classifications and Basis
	Himalayan River System: The Indus River System
	The Ganga River System, The Brahmaputra River System
Drainage System of Peninsular Plateau and its Rivers	

	Difference between Himalaya and Peninsular River System
	Importance and Usability of river Water
	Map Work for Indian Drainage
January	Climate: Introduction, types and Origin of Monsoon
	Uniformity and Diversity in Monsoon Climate
	Factors Responsible for Climate Determination and Variations
	Indian Climate: Nature, Characteristics and Seasons
	Winter Season: Geographical Conditions and Occurring Events
	Summer Season: Temperature, Air Pressure, Rainfall
	Rainy or Monsoon Season: Physical Conditions and Characteristics
	Distribution of Rainfall
	Classification of Indian Climate: Koeppen Climatic Regions
	Thornwaite Climatic Region
	Map Work, Revision and Discussions
	Soil: Definition, Components and Soil Profile
	Soil Map of India
	Soil Degradation: Erosion, Types, Causes, Measures, Conservation
	Natural Vegetation: Definition and Forest Cover in India
	Geographical Classification and Distribution of Indian Forest
	Map Work and Revision
	Problems and Conservation of Forest, Wild Life
	Natural Disasters: Meaning, Types and Classification
	Earthquake, Flood, Drought, Tsunami, Landslides, Cyclone: Causes, Results and Recommendations and Disaster Management
	Responsible Factors, impacts and Remedies
	Population : Distribution and Density
	Factor Affecting Population Distribution and Density
	Types of Density
	State wise pattern
	Production and Distribution of Crops

	Rice, Wheat, Cotton and Sugarcane
	Problem of Indian Agriculture, Green Revolution
	Mineral Resources
	Types of Resources, Iron ore, Manganese, Aluminium, Mica
February	Energy Resources
	Coal, Petroleum
	Hydroelectricity
	Solar Energy
	Nuclear Energy
	Industries: Iron & Steel, Cotton Textile
	Sugar industry
	Cotton textile
	Locations of Industries
	Industrial Regions of India
	Industrial Regions of Haryana
	Transport and Communication
	Mode of Transport
	Rail, Road and Water

Practical

B.A. 1st Semester, Section: E, Maps and Scales (GEOG-102)

Months	Practical (1-6 Days)
November	Introduction of Cartography Nature and Scope of Cartography Work System of Cartography
December	Maps and Their Types Classification of Maps on the Basis of Scale and Purpose Essential Elements and Importance of Maps
	Map Scale Necessity and importance Methods of Expressing Scale
	Types of Scales Conversion of Scale
	Division of Straight Line into Equal Parts
	Plain Scale (Kms) Plain Scale (Miles)
January	Comparative Scale (Kms, Miles and Furlongs)
	Comparative Scale (Metres, Feet and Yards)

	Time Scale
	Pace Scale
February	Revolution Scale
	Diagonal Scale (Metre, Centimetres)
	Measurement of Area on Map
	Enlargement and Reduction of Maps (Square Method)
	Proportional Method
	Revision

B.A. 5th Semester, Practical (1 day, Monday)

Months	Topic to be Taught
November	Principle of Map Design and layout
December	Symbolization: point, line and area symbol
	Lettering and Toponymy
	Mechanics of Map Construction
	Distribution Maps: Qualitative Distribution Maps
	Choro-schematic Maps, Choro-chromatic maps
	Quantitative Distribution Maps
	Choropleth Maps
	Dot Maps
	Diagrammatic Maps
January	Diagrammatic Maps
	Isopleth Maps
	Isopleth Maps
	Prismatic Compass Survey
February	Prismatic Compass Survey
	Revision, Discussion

Subject Lesson Plan (November 2021- February 2022)

Mr. Vikas Veer

Assistant Professor, Department of Geography, Dayanand College, Hisar

MSc 1st Semester

(GEOG- 104; Statistical Methods in Geography)

Months	Theory (1-6)
November	Descriptive Statistics: Histograms and Graphs, Measures of Central Tendency: mean, median, mode. Partitioned values: Quartiles and deciles. Comparing the mean, median and mode
December	Measures of Dispersion: Absolute measures: Range, Quartile Deviation, Mean Deviation, Standard Deviation. Relative measure of dispersion: coefficient of variation Normal curve as a probability distribution: Its characteristics and area under curve, Measure of inequality: (i) Location quotient (ii) Lorenz Curves

January	Sampling: Theory of sampling, Methods of sampling, Sampling distribution and Chance errors in sampling, Bivariate Analysis: Scatter diagram, correlation analysis, Spearman's rank correlation and Karl Pearson's correlation coefficient. Test of significance, Simple Linear Regression Model: properties of least square estimate. Coefficient of determination. Residuals and their mapping
February	Basics of multivariate analysis: Correlation matrix, partial and multiple correlation

**MSc 3rd Semester
(GEOG- 302(i) Field Methods in Geography (Socio-economic) (Th.)**

Months	Theory (1-6)
November	Significance of Field work in Geography
December	Identification of Research Problem and Formulation of Research Design, Types and Sources of Data
January	Preparation of Questionnaires, Sample Design, Collection of socio-economic data, Retrieval and Analysis of Data
February	Format of Report Writing

Subject Lesson Plan (November 2021 - Feb 2022)

Mr. Surender Kumar

Assistant Professor, Department of Geography, Dayanand College, Hisar

B.A. IIIrd, 5th Semester (Economic Geography)

Months	Theory (1-6)
November	Definition, Nature, scope and Approaches of economic Geography, Relationship of economic geography with economic and other branches of social science
December	Main concept of economic geography, resources concept and classification, resource and conservation, factor affecting location of economic activity with special reference to agriculture – Von Thunen Model factor affecting location of economic activity with special reference to agriculture – Weber's Theory, Subsistence and Commercial Agriculture (Rice, Wheat, Cotton, Sugarcane, Tea, Rubber and Coffee

January	Manufacturing (Cotton textile, iron and steel), concept of manufacturing regions, special economic zone and technology parks, World Transportation: major trans –continental railways and sea routes,
February	Geo-economic factors in their development, WTO and international trade: patterns and trends; major trade blocks; Effect of globalization on developing countries

M.Sc. 3rd Semester, Remote Sensing (Practical)

Months	Practical (1-6)
November	Identification of Flight Line, Scale of Photographs.
December	Determination of height of objects from single vertical photographs, Identification of objects and features with stereoscope, Preparation of Thematic maps on land use/land cover Georeferencing of satellite imagery in image processing software, Image to image rectification
January	Creating subset, Merging images of various resolution
February	Making false colour composite

M.Sc. 3rd Semester Remote Sensing (Theory)

Months	Theory (1-6)
November	Fundamentals: Remote Sensing, definition and scope, EMR characteristics
December	Interaction with matter, remote sensing regions and bands, types of remote sensing, Aerial Photographs: aerial photos, types and scale resolution, geometric properties of single aerial photos, stereoscopy, stereoscopic parallax, relief displacement, Satellite Imagery: General orbital characteristics of remote sensing satellites
January	general characteristics of remote sensing sensors, characteristics of Indian remote sensing satellite and raw Remote Sensing data, Interpretation and Application
February	Elements of image interpretation, image processing techniques: Visual and Digital. Applications in resource mapping and monitoring

Subject Lesson Plan (November, 2021 to February, 2022)

Mrs. Vibha Kaushik

Assistant Professor, Department of Geography
D.N.College , Hisar
M.Sc. (P) Climatology Paper Code- 101

Months	Topic to be Taught
November	Definition, Nature and Scope of Climatology. Origin, Composition and Structure of the Atmosphere. Isolation, Global Heat Budget Temperature and Horizontal and Vertical Distribution of the Temperature, Inversion of Temperature.
December	Atmospheric Pressure: Measurement and Distribution of Atmospheric Pressure. Pressure Belts, Planetary Winds, Monsoons, Jet Streams, El-Nino, La-Nina Local Winds. Humidity - Measurement and Variables.
January	Evaporation, Condensation and Various forms of Condensations Precipitation and its Various Forms and Types, Hydrological Cycle Air Masses: Its Concept, Classification and Types. Fronts: Its Concept and Its Classification and Types.
February	Climatic Classifications: Koppen and Trewartha Climatic Classifications: Thornthwaite Climate Change, Evidence and Explanations, Global Warming and Its Impact over World Climate. Revision and Presentation.

M.Sc. (P) Cartographic Methods in Geography (Practical)
Paper Code -105

Months	Topic to to be Taught
November	Climate Data Representation by Diagrams and Maps: Line and Bar Graph, Poly Graph.
December	Rainfall Deviation Diagram, Climograph (Taylor and Foster's) Hythergraph, Isopleths
January	Wind Rose Diagram, Diagrams: Types and Properties of Diagrams representing Socio- Economic Data. One Dimensional Diagram: Simple Bar, Multiple Bar, Comparative Bar Two Dimensional Diagram: Pie Diagram ,Proportional Circles,Rectangle, Square Diagram; Three Dimensional Diagrams: Sphere, Cube and Curbsi Distribution Maps: Dot Method.

February	Choropleth Maps–Monovariate and Bivariate Miscellaneous Diagrams and Graphs: Trend Graph, Age and Sex Pyramid , Flow Diagram, Cartogram Accessibility Maps.
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**B.A 5th Semester, Section -D
Economic Geography
Paper Code: 301**

Months	Topic to be Taught
November	<p>Nature, Meaning and Scope of Economic Geography Branches of Economic Geography, Economic Geography and Its relationship with Other Social Sciences, Systematic Development of Economic Geography Modern Economic Geography, Methods of Studying Economic Geography, Relation of Economic Geography with other Subjects and Importance.</p> <p>Economic Activities: Classification of Economic Activities, Gathering :Subsistence Gathering, Commercial Gathering Gathering in Tropical Area, Gathering in Sub Tropical and Temperate Area, Hunting, Lumbering Animal Grazing and Animal Rearing: Nomadic Herding, Subsistence Grazing, Commercial Grazing Commercial Grazing in the Tropical and Temperate Grasslands Fisheries: Principal Fishing Ground of the World, Mining Secondary Activities, Tertiary Activities Impact of Economic Activities on Environment World Natural Resources: Resources, Resistance and Neutral Stuff's Resource Process, Natural Resources-Constant or Changing, Man & Resources, Culture and Resources</p>
December	<p>Classification & Conservation of Resources Agriculture Crops : Rice, Wheat, Cotton Sugarcane, Tea, Coffee, Rubber Minerals: Classification of</p>

	Minerals Iron Ore, Coal Petroleum, Natural Gas
January	Manufacturing Industries ,Classification of Industries Factors affecting the location of Industries, Iron and Steel Industries Textile Industries: Cotton Textile, Woolen Textile and Silk Textile Industry, Jute Industry Major Industrial Complexes of the World Transport and Communication Land Transport: Roadways, Railways, Waterways, Airways and Pipelines.
Feburary	International Trade International Trade of Major Countries of the World Revision/Discussions

Subject Lesson Plan (Nov 2021- Feb2022)

Vikramjeet

Assistant Professor, Department of Geography, Dayanand College, Hisar

MSc. Final(Sem-3)

Urban Geography (GEOG-303 i)

Months	Theory (1-6 Days)
November	Urban Geography: nature, scope and concepts. Origin and evolution of towns and factors of urban growth.. Economic base of cities: concept and employment ratio. Functional classification of cities: concepts and scheme of classification.
December	Rural Urban Fringe: structural characteristics and its development. City and region: concepts of influence and dominance, methods of delimitation of area of influence and area of dominance. Urban morphology and landuse structure: city core, commercial, industrial and residential areas.
January	Models of city structure: concentric zone model by E.W.Burgess Sector model by Homer Hoyt Multiple nuclei model by Harris and Ullman. Central place theory of Christaller. Central place theory of Losch.
February	Rank size rule and Law of primate city. Social area analysis.

MSc. Final(Sem-3)

Geography & Disaster Management (GEOG-304 iv)

Months	Theory (1-6 Days)
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November	Definition, nature and classification of disasters. Geography and disasters: major disasters of world, disaster profile of India Tectonic Disasters: Volcanoes, Earthquakes, Tsunamis, Landslides
December	Hydrological Disasters: Floods and Droughts Climatic Disasters: Cyclones, Heavy Precipitation. Human Induced Disasters: Epidemics, Industrial and Transport Disasters; Wars and Terrorism induced Disasters
January	Vulnerability to Disasters and Affecting Factors. Planning for Disaster Mitigation and Preparedness. Mitigation Measures of Disasters. Post Disaster Recovery and Rehabilitation Impacts of Disaster on Society and Economy
February	Remote Sensing and GIS Applications in Disaster Prevention and Monitoring

**B.A. 2nd (Sem-3) Section: B,C
GEOG (P) 202: Representation of Climatic Data**

Months	Topic to be Taught
November	Measurement of temperature, rainfall, pressure and humidity. Representation of temperature and rainfall. Line and Bar Graph – 1 Exercise. Climograph (wet places) - 1 Exercise. Climograph (dry places) - 1 Exercise.
December	(ii) Distribution of temperature (180 Therms) – 1 Exercise. (iii) Distribution of rainfall (180 hytes) – 1 Exercise. (iv) Hythergraph - 1 Exercise.
January	Rainfall deviation diagram - 1 Exercise. Distribution of pressure (180 bars) - 2 Exercise. Weather map Interpretation (January & July)

DEPARTMENT OF GEOGRAPHY

(Dayanand College, Hisar)

Subject Lesson Plan (November 2021- February 2022)

SUBHAM (Assistant Professor)

Class- M.Sc. Previous (Sem-1)

GEOG-102– Geography of India

Months	Theory (1-6 Days)
November	(UNIT-1) Major terrain elements of India and their role in shaping physical landscapes of India. Drainage systems of India and their functional significance.

December	<p>(UNIT-1) Regional and seasonal variations in climate and climate regions of India. Soil and vegetation types of India- their distribution, characteristics and conservation.</p> <p>(UNIT-2) Agriculture: Characteristics of Indian agriculture, agricultural development in India since independence, problems of Indian agriculture. Irrigation development in India, environmental impacts of irrigation development projects with special reference to Bhakra Nangal and Indira Gandhi Canal.</p>
January	<p>(UNIT-3) Production and distribution of following minerals and power resources. (a) Minerals: Iron ore, mica, manganese, bauxite. (b) Power Resources: coal, petroleum, hydropower. Minerals and power resources- The status of their use and need for conservation.</p> <p>(UNIT-4) Production and distribution of (a) iron and steel. (b) cotton textile (c) automobile industry. Major industrial regions of India and their characteristics.</p>
February	<p>(UNIT-4) Patterns of domestic and international trade. Major exports and imports of India's trade and balance of payment</p>

Class- M.Sc. Final (Sem-3)
GEOG-301 Geography and Ecosystem

Months	Theory (1-6 Days)
November	<p>(UNIT-1) Concept of Ecosystem; Types, components and function of ecosystem. Energy flow in ecosystem: food chain, food web, trophic levels, ecological production and ecological pyramids. Biogeochemical cycles: Hydrological, carbon, oxygen and nitrogen cycles</p>
December	<p>(UNIT-2) Biome: Scheme of Classification: factors affecting the distribution of biomes; a. Tropical evergreen rain forest biome b. Savana biome c. Monsoon biome d. Temperate biome e. Marine biome Ecosystem approach and its relevance in geography</p> <p>(UNIT-3) Man-environment relationship: Classification of resources; use and ecological imbalance with reference to soils, forests and energy resources</p>
January	<p>(UNIT-3) Biodiversity and conservation: preservation and conservation of ecosystem through resource management.</p> <p>(UNIT-4) Problems of pollution: concept of air, water, and noise pollution. Environment legislation: The Stockholm Conference, the Earth Summit, Kyoto Protocol and Copenhagen Conference</p>

February	(UNIT-4) Environmental laws in India (the Wild Life Act, Water Act, Forest Act, Environment Protection Act and National Environment Tribunal Act).
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Subject Lesson Plan (November 2021- February 2022)

SUKHBIR (Assistant Professor)

Class- BA IInd (Sem-3)

Paper 201- Physical Geography II

(Atmosphere and Hydrosphere)

Months	Theory (1-6 Days)
November	(UNIT-1) Weather and climate, origin, composition and structure of atmosphere. Insolation, Global heat budget, Horizontal and vertical distribution of temperature, inversion of temperature. (UNIT-2) Atmospheric pressure – measurement and distribution, pressure belts, planetary winds, Monsoon.
December	(UNIT-2) Jet streams EL NINO –La Nina phenomenon and Local winds. Humidity – measurement and variables, evaporation, condensation, precipitation types and distribution, hydrological cycle. (UNIT-3) Air masses- concept and classification, Fronts – type and characteristics. Weather disturbances – tropical and extra tropical cyclones
January/ February	(UNIT-3) Climate classification by Koppen, climate change and global warming. (UNIT-4) Configuration of oceanic floors and surface relief of Pacific, Atlantic and Indian oceans, temperature and salinity of oceans. Tides, waves and oceanic currents, circulation in Pacific, Atlantic and Indian Oceans, oceanic resources.

Paper 202- Representation of climatic data (Practical)

Months	Practical (1-4 Days)
November	Measurement of temperature, rainfall, pressure and humidity Representation of temperature and rainfall Line and Bar Graph.
December	Hythergraph , Climograph (wet and dry places) Rainfall deviation diagram ,Distribution of temperature (isotherms)
January / February	Distribution of rainfall (Isohyets) Distribution of pressure (Isobars) Weather map Interpretation (January & July)

Subject Lesson Plan (November 2021 to February 2022)

Ms. Savita

Assistant Professor, Department of Geography, Dayanand College, Hisar

B.A. 1st Semester, Section: F, Geography of India

Months	Theory (1-6 Days)
November	India: Location, Size, Extent,
	Space Relation, Neighbouring Countries, Geographical Diversity
	Strategic Importance of location, Unity in Diversity
	Relief Structure: Introduction, types and classifications
December	Geographical Division of North and North-eastern Mountains
	Location and Coverage, Origin of Himalayas
	Regional Division of Himalayas
	Differentiation between Eastern and Western Himalayas
	Map Work: Mountains Divisions, Ridges, Peaks Passes and G.D.
	Northern Plain: Introduction, Location and extent
January	Great Plain: Physical Classification and Features
	Regional Categorization of northern Plain
	Importance of Plain, Map Work for Plain Divisions
	The Peninsular Plateau: Shape, Size and Structure
	Sub-divisions of Plateau, Origin and Importance
	Great Indian Desert, Coastal Plains, Islands of India
	Drainage: Introduction, pattern
	Indian Drainage: Classifications and Basis
	Himalayan River System: The Indus River System
	The Ganga River System, The Brahmaputra River System
	Drainage System of Peninsular Plateau and its Rivers
	Difference between Himalaya and Peninsular River System

	Importance and Usability of river Water
	Soil: Definition, Components and Soil Profile
	Classification and Distribution of Indian Soil
	Soil Degradation: Erosion, Types, Causes, Measures, Conservation
	Natural Vegetation: Definition and Forest Cover in India
	Geographical Classification and Distribution of Indian Forest
	Problems and Conservation of Forest, Wild Life
	Natural Disasters: Meaning, Types and Classification, Responsible Factors, impacts and Remedies
	Earthquake, Flood, Drought, Tsunami, Landslides, Cyclone: Causes, Results and Recommendations and Disaster Management
February	Indian Climate: Nature, Characteristics and Seasons
	Winter Season: Geographical Conditions and Occurring Events
	Summer Season: Temperature, Air Pressure, Rainfall
	Rainy or Monsoon Season: Physical Conditions and Characteristics
	Distribution of Rainfall
	Natural Disasters In India
	Classification of Indian Climate: Koeppen Climatic Regions, Thornwaite Climatic Region
	Factor Affecting Population Distribution and Density
	Types of Density, State wise pattern
	Production and Distribution of Crops
	Rice, Wheat, Cotton and Sugarcane, Green Revolution
	Energy Resources: Coal, Petroleum,
	Hydroelectricity, Solar Energy, Nuclear Energy
	Mineral Resources: Types of Resources, Iron ore, Manganese, Aluminium, Mica
	Industries: Iron& Steel, Cotton Textile, Sugar industry

	Locations of Industries
	Industrial Regions of India
	Industrial Regions of Haryana
	Transport and Communication
	Mode of Transport, Rail, Road and Water
	Climate: Introduction, types and Origin of Monsoon
	Uniformity and Diversity in Monsoon Climate
	Factors Responsible for Climate Determination and Variations

Practical

B.A. 1st Semester, Section: F, Maps and Scales

Months	Practical (One Day-Monday)
November	Introduction of Cartography, Nature and Scope of Cartography Work System of Cartography
December	Maps and Their Types, Classification of Maps Map Scale Necessity and importance Methods of Expressing Scale Types of Scales Conversion of Scale Division of Straight Line into Equal Parts
January	Plain Scale (Kms) Comparative Scale (Metres, Feet and Yards) Time Scale Pace Scale
February	Revolution Scale Diagonal Scale (Metre, Centimetres) Measurement of Distance On Map Measurement of Area on Map Enlargement and Reduction of Maps (Square Method) Enlargement and Reduction of Maps (Proportional Method) Revision

Practical
B.A. 5th Semester, Section: D

Months	Practical (Two Days, Friday and Saturday)
Novemebr	Principle of Map Design and layout
December	Symbolization: point , line and area symbol
	Lettering and Toponymy
	Mechanics of Map Construction
	Distribution Maps: Qualitative Distribution Maps
	Choro-schematic Maps, Choro-chromatic maps
January	Quantitative Distribution Maps
	Choropleth Maps
	Dot Maps
	Diagrammatic Maps
February	Diagrammatic Maps
	Muticolour Method
	Isopleth Maps (Isobar and Isotherms)
	Prismatic Compass Survey (Radiation and Intersection Method)
	Revision, Discussion

Subject Lesson Plan (November 2021- February 2022)

GARIMA (Assistant Professor)

Class- BA IInd (Sem-3)

Paper 201- Physical Geography II

(Atmosphere and Hydrosphere)

Months	Theory (1-6 Days)
November	<p>(UNIT-1) Weather and climate, origin, composition and structure of atmosphere. Insolation, Global heat budget, Horizontal and vertical distribution of temperature, inversion of temperature.</p> <p>(UNIT-2) Atmospheric pressure – measurement and distribution, pressure belts, planetary winds, Monsoon.</p>

December	<p>(UNIT-2) Jet streams EL NINO –La Nina phenomenon and Local winds. Humidity – measurement and variables, evaporation, condensation, precipitation types and distribution, hydrological cycle.</p> <p>(UNIT-3) Air masses- concept and classification, Fronts – type and characteristics. Weather disturbances – tropical and extra tropical cyclones</p>
January	<p>(UNIT-3) Climate classification by Koppen, climate change and global warming.</p> <p>(UNIT-4) Configuration of oceanic floors and surface relief of Pacific, Atlantic and Indian oceans, temperature and salinity of oceans. Tides, waves and oceanic currents, circulation in Pacific, Atlantic and Indian Oceans, oceanic resources.</p>
February	

Paper 202- Representation of climatic data (Practical)

Months	Practical (1-4 Days)
November	Measurement of temperature, rainfall, pressure and humidity Representation of temperature and rainfall Line and Bar Graph.
December	Hythergraph , Climograph (wet and dry places) Rainfall deviation diagram ,Distribution of temperature (isotherms)
January /February	Distribution of rainfall (Isohyets) Distribution of pressure (Isobars) Weather map Interpretation (January & July)

Class- M.Sc. Previous (Sem-1)
GEOG 103 – Economic Geography

Months	Theory (1-6 Days)
November	(UNIT-1) Definition, nature, scope and approaches of economic geography
December	(UNIT-1) Relationship of economic geography with economics and other branches of social sciences. World Economies: bases of classification, patterns and characteristics of developed and developing economies of the world.

	<p>(UNIT-2) World production and distribution of energy resources: coal and petroleum. World production and distribution of mineral resources: iron-ore and bauxite.</p> <p>(UNIT-3) Network structure and economic activities, impact of transport on economic activities</p>
January	<p>(UNIT-3) Edward Ullman's spatial interaction model. Basic concepts in location problems, location models of Weber, Christaller and Losch.</p> <p>(UNIT-4) Concept of economic growth and development, globalization and pattern of economic development. Recent trends in pattern of international trade. Emergence of a new global economy.</p>
February	<p>(UNIT-4) Transnational integration and its spatial outcomes.</p> <p>Major regional trade blocks of the world, free trade initiatives (GATT, UNCTAD, WTO)</p>

Ms. Manju Sharma
(Head of Department)

Name of the Institute	Dayanand College Hisar
Name of the Teacher with Designation	Rajiv Turkiya Assistant Professor
Department	Public Administration
Section	BA 1 st Sem
Subject	PA 101: Elements of Public Administration Public Administration as a Discipline

Month	Topic/ Chapter covered	Test/ Assignment
November to December 2021	Unit 1 Public Administration as a Discipline <ul style="list-style-type: none"> • Meaning, Nature, Scope, Dimensions and Significance of the Discipline • Its relations with Political Science, Management, Law and Economics • Public and Private Administration • Evolution of Public Administration with special focus on Minnow brook Conferences • New Public Administration (NPA) 	Assignment 1
January 2022	Unit 2 Organization and its Principles <ul style="list-style-type: none"> • Organization: Meaning, Basis and Forms of Organizations • Principles of Organization: Hierarchy, Unity of Command, Span of Control, Coordination • Authority and Responsibility, Supervision and Control, Centralization, Decentralization and Delegation 	
February 2023	Unit 3 Organization: Structure and Processes <ul style="list-style-type: none"> • The Chief Executive: Meaning, Types, Functions and Role • Line, Staff & Auxiliary Agencies; Headquarter & Field Relationships. • Decision-making • Communication • Leadership 	Test
March 2022	Unit 4 Emerging Perspectives -I <ul style="list-style-type: none"> • State Vs. Market Debate – Public Choice Paradigm • Governing the Commons: Common-Pool Resources (CPR) • Development Administration: Meaning, Nature and Scope 	Assignment 2

Name of the Institute	Dayanand College Hisar
Name of the Teacher with Designation	Rajiv Turkiya Assistant Professor
Department	Public Administration
Section	BA 3 rd Sem
Subject	PUBA 201: Public Financial Administration (w.e.f. the academic session 2019-20)

Month	Topic/ Chapter covered	Test/ Assignment
November to December 2021	UNIT – II Budget: Types and Processes •Types of Budgets: Line-Item Budgeting; Performance Budgeting, Zero-Base Budgeting and Target Base Budgeting • Budget Formulation and Enactment and Execution of Budget with special reference to India.	Assignment 1
January 2022	UNIT – II Financial Institutions • Union Ministry of Finance • Finance Commission of India • Comptroller & Auditor General (CAG)	
February 2023	UNIT – I Public Budget: Concepts and Meaning • Meaning and Significance of Financial Administration • Budget: Concept and Principles • Budget as an Instrument of Financial Administration • Budget as an Instrument of Public Policy and Management	Test
March 2022	UNIT – IV Public Finance and Resource Mobilization and Financial Control •Resource Mobilization: Tax and Non-Tax Sources •Public Borrowing and Deficit Financing •Legislative Control over Finances with special reference to parliamentary committees	Assignment 2

Name of the Institute	Dayanand College Hisar
Name of the Teacher with Designation	Rajiv Turkiya Assistant Professor
Department	Public Administration
Section	BA 5 th Sem
Subject	PUBA 301: Rural Local Governance (Option-II) (w.e.f. the academic session 2020-21)

Month	Topic/ Chapter covered	Test/ Assignment
November to December 2021	UNIT - IV Institutional Framework for PRIs ▪ District Rural Development Agency & District Planning Committee ▪ State Election Commission & State Finance Commission ▪ Rural Urban Relationship and Problems	Assignment 1
January 2022	UNIT – III Panchayati Raj Institutions ▪ Panchayat Samiti: composition, functions and role ▪ Zila Parishad: composition, functions and role ▪ Sources of finance for rural local bodies	
February 2023	UNIT - II Constitutional Provisions ▪ 73rd Constitutional Amendment Act, 1992 ▪ Gram Sabha – composition, functions and role ▪ Gram Panchayat: composition, functions and role	Test
March 2022	UNIT - I Introduction ▪ Evolution and Growth of rural local governance in India ▪ Committees and Commissions on Panchayati raj	Assignment 2

Lesson planning for the semester started w.e.f. 16.10.2021

Name of Institute : Dayanand College, Hisar
Name of The teacher : Dr. Pramod Kumar (Assistant Professor)
Department : Defence Studies
Class & Section : BA – I Sem. (H)

Month	Class	Topic/Chapter (Theory & Practical)	Test Assignment
October	BA - I Sem	Theory: Defence studies: Concept, Scope, and Importance. Lab work: Map: Its definition, characteristics, classification, Management Information of Toposheet and its utility for Military.	
November	BA - I st Sem	Theory: Defence Studies: Its relations with other disciplines –Geography, Economics, Political Science, History, Psychology and Sociology. Meaning and Concept of War, Strategy and Tactic. Lab work: Conventional Sign: Military & Geographical. Grid System: Four Figure and Six Figure Map References. Sheet Number: Million Sheets, ‘Quarter-Inch Sheets’, ‘Half-inch Sheet’, ‘One-inch Sheet’ and ‘Index of Sheets’.	Assignment
December	BA - I st Sem	Theory : Principal of War; ABC warfare (Atomic, Biological, or chemical) Lab work: Scale: Definition, Three Methods of representing Scale Inter-Conversion of Statement into R.F. Constructions of Simple Scale Line, Time and Diagonal Scale; Methods of Finding North Direction.	Test
January	BA - I st Sem.	Theory: Defence Mechanism of India & Rank Structure of Armed Forces. Lab work: Liquid Prismatic Compass – Functions of its various Parts; Rank Structure of Armed Forces.	Assignment
February	BA - I st Sem	Revision	

Signature of concerned Teacher

Lesson planning for the semester started w.e.f. 16.10.2021

Name of Institute : Dayanand College, Hisar
Name of the Teacher : Dr. Pramod Kumar (Assistant professor)
Department : Defence Studies
Class & Section : B.A – III Sem (B)

Month	Class	Topic/Chapter (Theory)	Test/Assignment
October	BA- III Sem	Meaning of National Defence and Security; Essential of national defence: geographical factors, economic factors, international political condition, defence mechanism of modern state.	
November	BA - III Sem	India's defence problem in 21 st century; India's defence policy; Nuclear policy of India.	Assignment
December	BA - III Sem	Civil Military Relations of India; Civil Defence ; Military Aid to Civil Administration	Test
January	BA - III Sem	War Finance Taxation, Borrowing And Inflation; Cost Of War and Economic Mobilization In War.	Assignment
February	BA- III Sem	Revision	

Signature of concerned Teacher

Lesson planning for the semester started w.e.f. 16.10.2021

Name of Institute : Dayanand College, Hisar
Name of The teacher : Dr. Ravinder Kumar
Department : Defence Studies
Class & Section : B.A – IIIrd Sem. (B)

Month	Class	Topic/Chapter (Practical)	Test/Assignment
October	BA- III Sem	Sand Model Meaning, Importance and Preparing.	
November	BA- III Sem	Detailed study of an infantry platoon including Organisation, Weapon And Equipments. Study of field crafts with reference to ground, cover, camouflage, concealment and observation.	Assignment
December	BA- III Sem	Application of fire fire control and fire control orders, practical formations – section and platoon.	Test
January	BA- III Sem	Verbal orders; 400-800 words essay on any topics of the contemporary and current strategic issues related with Internal Security Of India	Assignment
February	BA- III Sem	Revision	

Signature of concerned Teacher

Lesson planning for the semester started w.e.f. 16.10.2021

Name of Institute : Dayanand College, Hisar
Name of The teacher : Mr. Ravinder Kumar (Assistant professor)
Department : Defence Studies
Class & Section : B.A – V Sem (C)

Month	Class	Topic/Chapter (Theory & Practical)	Test/Assignment
October	BA - V Sem	Theory: Science and Technology: Definition and concept; Emerging Technology and its impact and weapons; Electronic warfare: Concept and application. Lab Work: IT: Network LAN, WAN, Military sensor etc; RADAR and its signification, Types, Posts	
November	BA - V Sem	Theory: RADAR and its significance, Basic types application. Information Technology and its impact on warfare (i) Communication Tech. (ii) Military Tech. DRDO : Its role in weapons development (a) Armoured Vehicles : Tanks and APC"s (b) Aircraft UAV"s (c) Submarine and Aircraft Carrier (d) Missiles : Range, Introductions, Parts and Specification . Prithvi, Brahmos Agni, K – 4, SLBM. Lab Work: Electronic Warfare in terms of Lasers, ECM, ECCM ; Cyber Security : Information, Images, Techniques of cyber Attack	Assignment
December	BA - V Sem	Theory: Cyber Warfare / Security (i) Introduction to cyber Technology, Network, LAN, WAN (ii) Types of Cyber Crime : Hacking, Password Crack, Theft etc. (iii) Impact of Cyber Crimes on National Security, Impact of Cyber Crime on Armed Forces, National Economy / Market and Citizen Security. (iv) Cyber Law : National Cyber Security policy 2013; India „s position in Science and Technology : War Technology and development . Lab Work : Ballistic Missiles : SSM, SAM, SLBM, SRBM, IRBM, ICBM; Project Report / Field visit	Test
January	BA - V Sem	Theory: War Finance Taxation, Borrowing And Inflation; Cost Of War and Economic Mobilization In War. Lab Work: Space technology: Various Satellite in space for military use, Military importance of Satellite, characteristics of Military Satellite.	Assignment
February	BA - V Sem	Revision	

Signature of concerned Teacher

Lesson plan for the Semester started w.e.f. 16.10.2021

Name of Institute : Dayanand College, Hisar
 Name of the Teacher: Dr. Mahender Singh (Associate Professor)
 Department : History
 Section : B.A – V Sem. (Section- D & H)

Month	Class	Topic/Chapter Covered	Test/Assignment
October	BA- V Sem	Transition from Feudalism to Capitalism in Europe Renaissance: Origins, Emergence and Results	
November	BA- V Sem	Reformation: Origins, Emergence and Results Shift of Economic Balance from the Mediterranean to Atlantic Region Early Colonial System: Motives, Process and Consequences of Colonization of Americas Map Work	Assignment- I
December	BA- V Sem	Mercantile Revolution: Origins and Results Scientific Revolution: Origins and Impact Glorious Revolution: Origins and Results Map Work	Internal Test
January	BA- V Sem	Industrial Revolution: Origins, Progress and Impact Agricultural Revolution: Origins, Progress and Impact Map Work	Assignment- II
February	BA- V Sem	Revision	

Signature of Teacher Concerned with date

Lesson plan for the Semester started w.e.f. 16.10.2021

Name of Institute : Dayanand College, Hisar
 Name of the Teacher: Dr. Suruchi Sharma
 Department : History
 Section : B.A – V Sem. (Section- A & B)

Month	Class	Topic/Chapter Covered	Test/Assignment
October	BA- V Sem	Transition from Feudalism to Capitalism in Europe Renaissance: Origins, Emergence and Results	
November	BA- V Sem	Reformation: Origins, Emergence and Results Shift of Economic Balance from the Mediterranean to Atlantic Region Early Colonial System: Motives, Process and Consequences of Colonization of Americas Map Work	Assignment- I
December	BA- V Sem	Mercantile Revolution: Origins and Results Scientific Revolution: Origins and Impact Glorious Revolution: Origins and Results Map Work	Internal Test
January	BA- V Sem	Industrial Revolution: Origins, Progress and Impact Agricultural Revolution: Origins, Progress and Impact Map Work	Assignment- II
February	BA- V Sem	Revision	

Signature of Teacher Concerned with date

Lesson plan for the Semester started w.e.f. 16.10.2021

Name of Institute : Dayanand College, Hisar
 Name of the Teacher: Dr. Mahender Singh (Associate Professor)
 Department : History
 Section : B.A – III Sem. (Section- D & H)

Month	Class	Topic/Chapter Covered	Test/Assignment
October	BA- III Sem	Establishment of the Mughal Empire: Babur Sher Shah Suri and His Administration	
November	BA- III Sem	Akbar: Expansion of Empire and Religious Policy Aurangzeb: Expansion of Empire and Religious Policy Relations of Mughals with the Rajputs Deccan Policy of the Mughals Map Work	Assignment- I
December	BA- III Sem	Mughal Administration and Revenue System Institutions: Mansabdari and Jagirdari Decline of the Mughal Empire MapWork	Internal Test
January	BA- III Sem	Rivalry between the French and the British in India Founding of the British Empire: Battles of Plessey & Buxer Consolidation of the British Empire: Subsidiary Alliance System and Doctrine of Lapse; Map Work	Assignment- II
February	BA- III Sem	Annexation of Punjab Uprising of 1857: Causes, Events and Consequences Revision	

Signature of Teacher Concerned with date

Lesson plan for the Semester started w.e.f. 08.11.2021

Name of Institute : Dayanand College, Hisar
 Name of the Teacher: Mr. Mahender Singh
 Department : History
 Section : B.A – III Sem. (Section- E & G)

Month	Class	Topic/Chapter Covered	Test/Assignment
November	BA- III Sem	Establishment of the Mughal Empire: Babur Sher Shah Suri and His Administration	
		Akbar: Expansion of Empire and Religious Policy Aurangzeb: Expansion of Empire and Religious Policy Relations of Mughals with the Rajputs Deccan Policy of the Mughals Map Work	Assignment- I
December	BA- III Sem	Mughal Administration and Revenue System Institutions: Mansabdari and Jagirdari Decline of the Mughal Empire MapWork	Internal Test
January	BA- III Sem	Rivalry between the French and the British in India Founding of the British Empire: Battles of Plessey & Buxer Consolidation of the British Empire: Subsidiary Alliance System and Doctrine of Lapse; Map Work	Assignment- II
February	BA- III Sem	Annexation of Punjab Uprising of 1857: Causes, Events and Consequences Revision	

Signature of Teacher Concerned with date

Lesson plan for the Semester started w.e.f. 16.10.2021

Name of Institute : Dayanand College, Hisar
 Name of the Teacher: Dr. Suruchi Sharma
 Department : History
 Section : B.A – I Sem. (Section- A & C)

Month	Class	Topic/Chapter Covered	Test/Assignment
October	BA- I Sem	Meaning and Scope of History Sources of Ancient Indian History Pre-Historic Age: Hunter Gatherers, Concept of Neolithic	
November	BA- I Sem	Harappan Civilization: Origins, Extent, Town Planning, Economy, Society, Arts, Political Organization and causes of decline. Vedic Culture and Literature: Polity, Society & Religion Map Work	Assignment- I
December	BA- I Sem	Social Institutions: Varna, Caste and Untouchability Emergence of Sixteen Mahajanpas and the Rise of Magada Empire Religious Movements: Causes of Rise of Religious movement, Buddhism and Jainism. Map Work	Internal Test
January	BA- I Sem	Mauryan Empire: Polity and Economy, Administration; Ashoka's Dhamma Post-Mauryan Empires: Kushanas and Satvahanas Gupta Map Work	Assignment- II
February	BA- I Sem	Gupta Empire: Establishment and Expansion, Administration, Society, Economy, Art and Architecture Map Work Revision	

Signature of Teacher Concerned with date

Lesson plan for the Semester started w.e.f. 08.11.2021

Name of Institute : Dayanand College, Hisar
 Name of the Teacher: Mr. Mahender Singh
 Department : History
 Section : B.A – I Sem. (Section- B, D, G)

Month	Class	Topic/Chapter Covered	Test/Assignment
November	BA- I Sem	Meaning and Scope of History Sources of Ancient Indian History Pre-Historic Age: Hunter Gatherers, Concept of Neolithic	
		Harappan Civilization: Origins, Extent, Town Planning, Economy, Society, Arts, Political Organization and causes of decline. Vedic Culture and Literature: Polity, Society & Religion Map Work	Assignment- I
December	BA- I Sem	Social Institutions: Varna, Caste and Untouchability Emergence of Sixteen Mahajanpas and the Rise of Magada Empire Religious Movements: Causes of Rise of Religious movement, Buddhism and Jainism. Map Work	Internal Test
January	BA- I Sem	Mauryan Empire: Polity and Economy, Administration; Ashoka's Dhamma Post-Mauryan Empires: Kushanas and Satvahanas Gupta Map Work	Assignment- II
February	BA- I Sem	Gupta Empire: Establishment and Expansion, Administration, Society, Economy, Art and Architecture Map Work Revision	

Signature of Teacher Concerned with date

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Mr. Ravinder Sharma** (Assistant Professor)

Papers Taught and Classes – **Mechanics-I (CPL-102)** to B.Sc. 1st year Section F and

Heat and Thermodynamics (CPL-302) to B.Sc. 2nd Section D

Department – Physics

Month/ Week	Topics/ Unit Covered		Assignment/ Test
	B.Sc. 1 st year Section F	B.Sc. 2 nd Section D	
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Vectors: Scalar and vector fields, Derivatives of a vector with respect to a parameter, Gradient of a scalar field and its geometrical interpretation, Divergence and curl of a vector field, Laplacian operator, Vector identities, Line, surface and volume integrals of Vector fields, Flux of a vector field, Gauss's divergence theorem, Stokes Theorem and their applications.	Zeroth and First Law of Thermodynamics: Extensive and intensive thermodynamic variables, Thermodynamic equilibrium, zeroth law and Concept of Temperature, Work and heat, Statefunctions, first law of thermodynamics, Internal energy, Applications of first law, General relation between C_p and C_v , Work done during isothermal and adiabatic Processes. Second Law of Thermodynamics: Reversible and Irreversible process with examples, Conversion of Work into Heat and Heat into work Heat Engines Carnot's Cycle, Carnot engines & Efficiency, Refrigerator & coefficient of performance, 2nd Law of Thermodynamics: Kelvin-Planck and Clausius Statements and their Equivalence and Carnot's Theorem.	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Co-ordinate System: Time derivative of vectors with examples, Concepts of cartesian, polar and spherical coordinates, Motion in plane Polar Coordinates, velocity and acceleration in polar coordinates, Dynamics Using Polar Coordinates. Momentum and Energy: Momentum, Conservation of momentum, Centre of mass, Centre of mass coordinates with examples, Motion of rockets, Work and energy, Conservation of energy.	Entropy and Third law of Thermodynamics: Concept of entropy, Clausius theorem, Clausius Inequality, Second Law of Thermodynamics in terms of Entropy, Entropy of a Perfect Gas and Universe, Entropy Changes in Reversible and Irreversible Processes, Principle of Increase of Entropy, Third Law of Thermodynamics, T-S Diagrams, Phase Change, Classification of Phase Changes.	Assignment

2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	<p>Dynamics of a system of particles: Elastic and inelastic collisions between particles, Centre of Mass and Laboratory frames.</p> <p>Rotational Motion: Angular velocity and angular momentum, Moment of inertia and parallel and perpendicular axis theorem, Moment of inertia of (a) thin uniform wire (b) Thin rectangular sheet (c) Rectangular slab (d) ring (e) disc (f) spherical shell (g) solid sphere (h) hollow sphere, Torque, Conservation of angular momentum, Angular momentum as vector, Coriolis forces and its effect on motion.</p>	<p>Thermodynamic Potentials: Extensive and Intensive Thermodynamic Variables, Internal Energy, Enthalpy, Gibbs, Helmholtz function and Their Definitions, Properties and Applications.</p> <p>Maxwell's Thermodynamic Relation: Derivations of Maxwell's Relations, Application of Maxwell's Relations: (1) Clausius Clapeyron Equation, (2) Values of $C_p - C_v$, (3) Energy equations, (4) Change of temperature during adiabatic process.</p>	Test
4 th week of Dec. 2021 To 1 st week of Jan. 2022	<p>Central force: Basics properties of central forces, Two body problem equivalent to one body problem and concept of reduced mass, Motion of a particle in a central force field (motion is in a plane, angular momentum is conserved, areal velocity is constant), Kepler's Laws.</p> <p>Elasticity: Hooke's Law - Stress-strain diagram - Elastic moduli, Poisson's Ratio, Relation between four elastic constants, Bending moments, Bending of cantilever and centrally loaded beams.</p>	<p>Real Gases: Behavior of Real Gases, Derivations from the Ideal Gas equation, The Virial Equation, Critical Constants, Continuity of Liquid and Gaseous State, Vapor and Gas, Boyle Temperature, Van der Waal's equation of State for Real Gases, Values of Critical Constants, Laws of Corresponding States, Comparison with Experimental Curves, P-V Diagrams, Joule's Experiment, Free Adiabatic Expansion of a Perfect Gas.</p>	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Ms. Anjana** (Assistant Professor)

Paper Taught and Classes – **Mechanics-I (CPL-102)** to B.Sc. 1st year Section

D and **Heat and Thermodynamics (CPL-302)** to B.Sc. 2nd Section C,F

Department – Physics

Month/ Week	Topics/ Unit Covered		Assignment/ Test
	B.Sc. 1 st year Section D	B.Sc. 2 nd Section C, F	
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	<p>Vectors: Scalar and vector fields, Derivatives of a vector with respect to a parameter, Gradient of a scalar field and its geometrical interpretation, Divergence and curl of a vector field, Laplacian operator, Vector identities, Line, surface and volume integrals of Vector fields, Flux of a vector field, Gauss's divergence theorem, Stokes Theorem and their applications.</p>	<p>Zeroth and First Law of Thermodynamics: Extensive and intensive thermodynamic variables, Thermodynamic equilibrium, zeroth law and Concept of Temperature, Work and heat, State functions, first law of thermodynamics, Internal energy, Applications of first law, General relation between C_p and C_v, Work done during isothermal and adiabatic Processes.</p> <p>Second Law of Thermodynamics: Reversible and Irreversible process with examples, Conversion of Work into Heat and Heat into work Heat Engines Carnot's Cycle, Carnot engines & Efficiency, Refrigerator & coefficient of performance, 2nd Law of Thermodynamics: Kelvin-Planck and Clausius Statements and their Equivalence and Carnot's Theorem.</p>	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	<p>Co-ordinate System: Time derivative of vectors with examples, Concepts of cartesian, polar and spherical coordinates, Motion in plane Polar Coordinates, velocity and acceleration in polar coordinates, Dynamics Using Polar Coordinates.</p> <p>Momentum and Energy: Momentum, Conservation of momentum, Centre of mass, Centre of mass coordinates with examples, Motion of rockets, Work and energy, Conservation of energy.</p>	<p>Entropy and Third law of Thermodynamics: Concept of entropy, Clausius theorem, Clausius Inequality, Second Law of Thermodynamics in terms of Entropy, Entropy of a Perfect Gas and Universe, Entropy Changes in Reversible and Irreversible Processes, Principle of Increase of Entropy, Third Law of Thermodynamics, T-S Diagrams, Phase Change, Classification of Phase Changes.</p>	Assignment

<p>2nd week of Dec. 2021 To 3rd week of Dec. 2021</p>	<p>Dynamics of a system of particles: Elastic and inelastic collisions between particles, Centre of Mass and Laboratory frames.</p> <p>Rotational Motion: Angular velocity and angular momentum, Moment of inertia and parallel and perpendicular axis theorem, Moment of inertia of (a) thin uniform wire (b) Thin rectangular sheet (c) Rectangular slab (d) ring (e) disc (f) spherical shell (g) solid sphere (h) hollow sphere, Torque, Conservation of angular momentum, Angular momentum as vector, Coriolis forces and its effect on motion.</p>	<p>Thermodynamic Potentials: Extensive and Intensive Thermodynamic Variables, Internal Energy, Enthalpy, Gibbs, Helmholtz function and Their Definitions, Properties and Applications.</p> <p>Maxwell's Thermodynamic Relation: Derivations of Maxwell's Relations, Application of Maxwell's Relations: (1) Clausius Clapeyron Equation, (2) Values of $C_p - C_v$, (3) Energy equations, (4) Change of temperature during adiabatic process.</p>	<p>Test</p>
<p>4th week of Dec. 2021 To 1st week of Jan. 2022</p>	<p>Central force: Basics properties of central forces, Two body problem equivalent to one body problem and concept of reduced mass, Motion of a particle in a central force field (motion is in a plane, angular momentum is conserved, areal velocity is constant), Kepler's Laws.</p> <p>Elasticity: Hooke's Law - Stress-strain diagram - Elastic moduli, Poisson's Ratio, Relation between four elastic constants, Bending moments, Bending of cantilever and centrally loaded beams.</p>	<p>Real Gases: Behavior of Real Gases, Derivations from the Ideal Gas equation, The Virial Equation, Critical Constants, Continuity of Liquid and Gaseous State, Vapor and Gas, Boyle Temperature, Van der Waal's equation of State for Real Gases, Values of Critical Constants, Laws of Corresponding States, Comparison with Experimental Curves, P-V Diagrams, Joule's Experiment, Free Adiabatic Expansion of a Perfect Gas.</p>	<p>Assignment</p>
<p>2nd week of Jan. 2022 Onward</p>	<p>Revision and Doubt Session of All Units</p>	<p>Revision and Doubt Session of All Units</p>	<p>Revision</p>

Lesson Planning for the semester w.e.f. 29/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Dr. Meena Rani** (Assistant Professor)

Paper Taught and Class – **Electricity and Magnetism-I (CPL-103)** to B.Sc. 1st year Section C,E,F

Department – Physics

Month/ Week	Topics/ Unit Covered	Assignment/ Test
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Electrostatics: Electrostatic Field, Electric flux, Gauss's theorem of electrostatics, Applications of Gauss theorem, Divergence and curl of electrostatic field and their physical significance, Electric potential, Electric potential as line integral of electric field, Calculation of electric field from potential, Energy stored in electrostatic field per unit volume.	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Application of Electrostatics: Laplace and Poisson's equations for the electrostatic field, Multi- pole expansion of potential due to arbitrary charge distribution, Dielectric medium, Polarization, Bound charges in a polarized dielectric and their physical interpretation, Electric displacement, Gauss's theorem in dielectrics, Parallel plate capacitor completely filled with dielectric, Susceptibility, Permittivity and dielectric constants.	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	Magnetism: Lorentz force law, Magnetic forces. Magnetostatics: Biot- Savart's law & its applications (1) straight conductor (2) circular coil (3) solenoid carrying current, Divergence and curl of magnetic field, Ampere's circuital law and its applications for simple current configurations, Magnetic vector potential.	Test
4 th week of Dec. 2021 To 1 st week of Jan. 2022	Magnetization: The field of a magnetized object, bound currents, physical interpretation of bound currents, Ampere objects, The Auxiliary field (H), Magnetic properties of materials, Permeability, Magnetic susceptibility, diamagnetism, para-magnetism and ferromagnetism, B-H Curve, Currie point.	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 30/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Ms. Soniya**(Assistant Professor)

Paper Taught and Class – **Mechanics-I (CPL-102)** to B.Sc. 1st year Section C,E

Department – Physics

Month/ Week	Topics/ Unit Covered	Assignment/ Test
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Vectors: Scalar and vector fields, Derivatives of a vector with respect to a parameter, Gradient of a scalar field and its geometrical interpretation, Divergence and curl of a vector field, Laplacian operator, Vector identities, Line, surface and volume integrals of Vector fields, Flux of a vector field, Gauss's divergence theorem, Stokes Theorem and their applications.	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Co-ordinate System: Time derivative of vectors with examples, Concepts of cartesian, polar and spherical coordinates, Motion in plane Polar Coordinates, velocity and acceleration in polar coordinates, Dynamics Using Polar Coordinates. Momentum and Energy: Momentum, Conservation of momentum, Centre of mass, Centre of mass coordinates with examples, Motion of rockets, Work and energy, Conservation of energy.	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	Dynamics of a system of particles: Elastic and inelastic collisions between particles, Centre of Mass and Laboratory frames. Rotational Motion: Angular velocity and angular momentum, Moment of inertia and parallel and perpendicular axis theorem, Moment of inertia of (a) thin uniform wire (b) Thin rectangular sheet (c) Rectangular slab (d) ring (e) disc (f) spherical shell (g) solid sphere (h) hollow sphere, Torque, Conservation of angular momentum, Angular momentum as vector, Coriolis forces and its effect on motion.	Test
4 th week of Dec. 2021 To 1 st week of Jan. 2022	Central force: Basics properties of central forces, Two body problem equivalent to one body problem and concept of reduced mass, Motion of a particle in a central force field (motion is in a plane, angular momentum is conserved, areal velocity is constant), Kepler's Laws. Elasticity: Hooke's Law - Stress-strain diagram - Elastic moduli, Poisson's Ratio, Relation between four elastic constants, Bending moments, Bending of cantilever and centrally loaded beams.	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Dr. Himani** (Assistant Professor)

Paper Taught and Class – **Electricity and Magnetism-I (CPL-103)** to B.Sc. 1st year Section D

Department – Physics

Month/ Week	Topics/ Unit Covered	Assignment/ Test
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Electrostatics: Electrostatic Field, Electric flux, Gauss's theorem of electrostatics, Applications of Gauss theorem, Divergence and curl of electrostatic field and their physical significance, Electric potential, Electric potential as line integral of electric field, Calculation of electric field from potential, Energy stored in electrostatic field per unit volume.	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Application of Electrostatics: Laplace and Poisson's equations for the electrostatic field, Multi- pole expansion of potential due to arbitrary charge distribution, Dielectric medium, Polarization, Bound charges in a polarized dielectric and their physical interpretation, Electric displacement, Gauss's theorem in dielectrics, Parallel plate capacitor completely filled with dielectric, Susceptibility, Permittivity and dielectric constants.	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	Magnetism: Lorentz force law, Magnetic forces. Magnetostatics: Biot- Savart's law & its applications (1) straight conductor (2) circular coil (3) solenoid carrying current, Divergence and curl of magnetic field, Ampere's circuital law and its applications for simple current configurations, Magnetic vector potential.	Test
4 th week of Dec. 2021 To 1 st week of Jan. 2022	Magnetization: The field of a magnetized object, bound currents, physical interpretation of bound currents, Ampere objects, The Auxiliary field (H), Magnetic properties of materials, Permeability, Magnetic susceptibility, diamagnetism, para-magnetism and ferromagnetism, B-H Curve, Curie point.	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Mr. Sanjay Kumar** (Assistant Professor)

Paper Taught and Class – **Heat and Thermodynamics (CPL-302)** to B.Sc. 2nd Section E

Department – Physics

Month/ Week	Topics/ Unit Covered	Assignment/ Test
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	<p>Zeroth and First Law of Thermodynamics: Extensive and intensive thermodynamic variables, Thermodynamic equilibrium, zeroth law and Concept of Temperature, Work and heat, Statefunctions, first law of thermodynamics, Internal energy, Applications of first law, General relation between C_p and C_v, Work done during isothermal and adiabatic Processes.</p> <p>Second Law of Thermodynamics: Reversible and Irreversible process with examples, Conversion of Work into Heat and Heat into work Heat Engines Carnot's Cycle, Carnot engines & Efficiency, Refrigerator & coefficient of performance, 2nd Law of Thermodynamics: Kelvin-Planck and Clausius Statements and their Equivalence and Carnot's Theorem.</p>	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	<p>Entropy and Third law of Thermodynamics: Concept of entropy, Clausius theorem, Clausius Inequality, Second Law of Thermodynamics in terms of Entropy, Entropy of a Perfect Gas and Universe, Entropy Changes in Reversible and Irreversible Processes, Principle of Increase of Entropy, Third Law of Thermodynamics, T-S Diagrams, Phase Change, Classification of Phase Changes.</p>	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	<p>Thermodynamic Potentials: Extensive and Intensive Thermodynamic Variables, Internal Energy, Enthalpy, Gibbs, Helmholtz function and Their Definitions, Properties and Applications.</p> <p>Maxwell's Thermodynamic Relation: Derivations of Maxwell's Relations, Application of Maxwell's Relations: (1) Clausius Clapeyron Equation, (2) Values of $C_p - C_v$, (3) Energy equations, (4) Change of temperature during adiabatic process.</p>	Test
4 th week of Dec. 2021 To 1 st week of Jan. 2022	<p>Real Gases: Behavior of Real Gases, Derivations from the Ideal Gas equation, The Virial Equation, Critical Constants, Continuity of Liquid and Gaseous State, Vapor and Gas, Boyle Temperature, Van der Waal's equation of State for Real Gases, Values of Critical Constants, Laws of Corresponding States, Comparison with Experimental Curves, P-V Diagrams, Joule's Experiment, Free Adiabatic Expansion of a Perfect Gas.</p>	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Mr. Narender Kumar** (Assistant Professor)

Paper Taught and Class – **Semiconductor Devices (CPL-303)** to B.Sc. 2nd Section C,F

Department – Physics

Month/ Week	Topics/ Unit Covered	Assignment/ Test
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Semiconductor Diodes and applications: p and n type semiconductors. Barrier Formation in PN Junction Diode, Drift and Diffusion Currents, Current flow mechanism in Forward and Reverse biased PN Junction Diodes mentioning the roles of drift and diffusion currents, V-I characteristics of PN Junction Diode, Static and Dynamic Resistance, Applications of PN Junction Diode as Half-wave rectifier, Full-wave Rectifier (both center-tapped and bridge FWR), Calculation of ripple factor and rectification efficiency, Zener Diode, Applications of Zener Diode as DC voltage Regulator, Principle and structure of (1) LEDs (2) Photodiode (3) Solar Cell.	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Semiconductor Transistors: Bipolar Junction transistors: n-p-n and p-n-p Transistors, Biasing of transistors in Active, Cutoff, and Saturation Modes, Circuit configurations of CB, CE and CC transistors, characteristics of transistors in CB, CE and CC, Current Gains α and β , Relation between α and β , Current gain and power gain, DC Load line and Q- point.	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	Amplifiers and Their Biasing: Voltage Divider Bias Circuit for CE Amplifier, bias stabilization, Class-A, B&C amplifiers, RC coupled amplifiers and its frequency response, Feedback in amplifiers, positive and negative feedback in amplifiers, Advantages of negative feedback in amplifiers, Sinusoidal Oscillators: Barkhausen's Criterion for Self-sustained oscillations, Circuit and Working of Hartley Oscillator, Circuit and Working of Colpitt's Oscillator, Uses of Oscillator.	Test
4 th week of Dec. 2021 To 1 st week of Jan. 2022	Operational Amplifiers (Black Box approach): Qualitative idea of differential amplifier, CMRR, Characteristics of an Ideal and Practical Op-Amp (IC 741), Open-loop & Closed-loop Gain. concept of Virtual ground, Applications of Op-Amps as Inverting Amplifier, Noninverting Amplifier, Differentiator, Integrator.	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Mr. Sunil Kumar** (Assistant Professor)

Paper Taught and Class – **Semiconductor Devices (CPL-303)** to B.Sc. 2nd year Section

D

Department – Physics

Month/ Week	Topics/ Unit Covered	Assignment/ Test
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Semiconductor Diodes and applications: p and n type semiconductors. Barrier Formation in PN Junction Diode, Drift and Diffusion Currents, Current flow mechanism in Forward and Reverse biased PN Junction Diodes mentioning the roles of drift and diffusion currents, V-I characteristics of PN Junction Diode, Static and Dynamic Resistance, Applications of PN Junction Diode as Half-wave rectifier, Full-wave Rectifier (both center-tapped and bridge FWR), Calculation of ripple factor and rectification efficiency, Zener Diode, Applications of Zener Diode as DC voltage Regulator, Principle and structure of (1) LEDs (2) Photodiode (3) Solar Cell.	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Semiconductor Transistors: Bipolar Junction transistors: n-p-n and p-n-p Transistors, Biasing of transistors in Active, Cutoff, and Saturation Modes, Circuit configurations of CB, CE and CC transistors, characteristics of transistors in CB, CE and CC, Current Gains α and β , Relation between α and β , Current gain and power gain, DC Load line and Q- point.	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	Amplifiers and Their Biasing: Voltage Divider Bias Circuit for CE Amplifier, bias stabilization, Class-A, B & C amplifiers, RC coupled amplifiers and its frequency response, Feedback in amplifiers, positive and negative feedback in amplifiers, Advantages of negative feedback in amplifiers, Sinusoidal Oscillators: Barkhausen's Criterion for Self-sustained oscillations, Circuit and Working of Hartley Oscillator, Circuit and Working of Colpitt's Oscillator, Uses of Oscillator.	Test
4 th week of Dec. 2021 To 1 st week of Jan. 2022	Operational Amplifiers (Black Box approach): Qualitative idea of differential amplifier, CMRR, Characteristics of an Ideal and Practical Op-Amp (IC 741), Open-loop & Closed-loop Gain. concept of Virtual ground, Applications of Op-Amps as Inverting Amplifier, Noninverting Amplifier, Differentiator, Integrator.	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 30/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Mr. Sahil** (Assistant Professor)

Paper Taught and Class – **Semiconductor Devices (CPL-303)** to B.Sc. 2nd year Section

E

Department – Physics

Month/ Week	Topics/ Unit Covered	Assignment/ Test
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Semiconductor Diodes and applications: p and n type semiconductors. Barrier Formation in PN Junction Diode, Drift and Diffusion Currents, Current flow mechanism in Forward and Reverse biased PN Junction Diodes mentioning the roles of drift and diffusion currents, V-I characteristics of PN Junction Diode, Static and Dynamic Resistance, Applications of PN Junction Diode as Half-wave rectifier, Full-wave Rectifier (both center-tapped and bridge FWR), Calculation of ripple factor and rectification efficiency, Zener Diode, Applications of Zener Diode as DC voltage Regulator, Principle and structure of (1) LEDs (2) Photodiode (3) Solar Cell.	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Semiconductor Transistors: Bipolar Junction transistors: n-p-n and p-n-p Transistors, Biasing of transistors in Active, Cutoff, and Saturation Modes, Circuit configurations of CB, CE and CC transistors, characteristics of transistors in CB, CE and CC, Current Gains α and β , Relation between α and β , Current gain and power gain, DC Load line and Q- point.	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	Amplifiers and Their Biasing: Voltage Divider Bias Circuit for CE Amplifier, bias stabilization, Class-A, B & C amplifiers, RC coupled amplifiers and its frequency response, Feedback in amplifiers, positive and negative feedback in amplifiers, Advantages of negative feedback in amplifiers, Sinusoidal Oscillators: Barkhausen's Criterion for Self-sustained oscillations, Circuit and Working of Hartley Oscillator, Circuit and Working of Colpitt's Oscillator, Uses of Oscillator.	Test
4 th week of Dec. 2021 To 1 st week of Jan. 2022	Operational Amplifiers (Black Box approach): Qualitative idea of differential amplifier, CMRR, Characteristics of an Ideal and Practical Op-Amp (IC 741), Open-loop & Closed-loop Gain. concept of Virtual ground, Applications of Op-Amps as Inverting Amplifier, Noninverting Amplifier, Differentiator, Integrator.	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Mr. Sunil Kumar** (Assistant Professor)

Papers Taught and Classes – **Element of Modern Physics (PH-501)** and **Nuclear Physics (PH-502)** to B.Sc. 3rd year Section E
Department – Physics

Week/Month	Topics/Units Covered		Test/Assignments
	B.Sc. 3 rd year Section E	B.Sc. 3 rd year Section E	
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Introduction to Quantisation: Properties of Thermal Radiation, Spectral Distribution of Blackbody Radiation, Kirchhoff's Law, Stefan-Boltzmann Law and Wien's Distribution and Displacement law, Rayleigh-Jean's Law, Ultraviolet Catastrophe, Planck's Quantum Postulates, Planck's Law of Blackbody Radiation: Experimental Verification. Photo-electric effect and Compton scattering; Pair production and annihilation, Bremsstrahlung effect, Cherenkov radiation, Production of X-rays.	Nuclear Structure and Properties of Nuclei Nuclear composition (p-e and p-n hypotheses), Nuclear properties; Nuclear size, spin, parity, statistics, magnetic dipole moment, quadrupole moment (shape concept). Determination of mass by Bain-Bridge, Bain-Bridge and Jordan mass spectrograph. Determination of charge by Mosley Law. Determination of size of nuclei by Rutherford Back Scattering. mass and binding energy, systematic of nuclear binding energy, nuclear stability	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Bohr Model: Drawbacks of Rutherford model, Bohr atomic model; Bohr's quantization rule and atomic stability; Calculation of energy levels for hydrogen like atoms and their spectra, Effect of nuclear mass on spectra, Correspondence principle. Fundamentals of Wave Mechanics: De Broglie wavelength and matter waves; Wave-particle duality; Frank-Hertz, Davison and Germer experiment, phase velocity, group velocity and their relations.	Nuclear Radiation decay Processes Alpha-disintegration and its theory. Energetics of alpha-decay, Origin of continuous beta spectrum (neutrino hypothesis), types of beta-decay and energetics of beta-decay. Nature of gamma rays, Energetics of gamma rays. Radiation interaction Interaction of heavy charged particles (Alpha particles); Energy loss of heavy charged particle (idea of Bethe formula, no derivation), Range and straggling of alpha particles. Geiger-Nuttal law. Interaction of light charged particle (Beta-particle), Energy loss of beta-particles (ionization), Range of electrons, absorption of beta-particles. Interaction of Gamma Ray; Passage of Gamma radiations through matter (Photoelectric, Compton and pair production effect) electron-positron annihilation. Absorption of Gamma rays (Mass attenuation coefficient) and its application.	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	Heisenberg Uncertainty Principle; Estimating minimum energy of a confined particle using uncertainty principle; Energy-time uncertainty principle, Properties of wave-function, Physical Interpretation of wave-function. Schrodinger Equation:	Nuclear Accelerators Linear accelerator, Tandem accelerator, Cyclotron and Betatron accelerators. Nuclear Radiation Detectors. Gas filled counters; Ionization chamber, proportional counter,	Test

	Momentum and Energy operators, Stationary states, Physical interpretation of a wave function, probabilities and normalization, Schrodinger Equation, Particle in 1-dimension infinite potential well.	G.M. Counter (detailed study), Scintillation counter and semiconductor detector	
4 TH week of Dec. 2021 To 1 st week of Jan. 2022	LASER: Absorption and emission of radiation (qualitative only); Basic features of LASER, Population inversion; Resonance cavity; laser pumping; threshold condition for laser emission; Einstein's Co-efficient, 3 level and 4 level system, Basic principle and working of He-Ne LASER and Ruby LASER, Applications of LASER.	Nuclear reactions Nuclear reactions, Elastic scattering, Inelastic scattering, Nuclear disintegration, Photonuclear reaction, Radiative capture, Direct reaction, Heavy ion reactions and spallation Reactions. Conservation laws, Q-value and reaction threshold. Nuclear Reactors Nuclear Reactors, General aspects of Reactor Design. Nuclear fission and fusion reactors, (Principle, construction, working and use).	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Ms. Anisha** (Assistant Professor)

Paper Taught – **Element of Modern Physics (PH-501)**

Class – B.Sc. 3rd year Section C,F

Department – Physics

Week/Month	Topics/Units Covered	Test/Assignments
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Introduction to Quantisation: Properties of Thermal Radiation, Spectral Distribution of Blackbody Radiation, Kirchhoff's Law, Stefan-Boltzmann Law and Wien's Distribution and Displacement law, Rayleigh-Jean's Law, Ultraviolet Catastrophe, Planck's Quantum Postulates, Planck's Law of Blackbody Radiation: Experimental Verification. Photo-electric effect and Compton scattering; Pair production and annihilation, Bremsstrahlung effect, Cherenkov radiation, Production of X-rays.	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Bohr Model: Drawbacks of Rutherford model, Bohr atomic model; Bohr's quantization rule and atomic stability; Calculation of energy levels for hydrogen like atoms and their spectra, Effect of nuclear mass on spectra, Correspondence principle. Fundamentals of Wave Mechanics: De Broglie wavelength and matter waves; Wave-particle duality; Frank-Hertz, Davison and Germer experiment, phase velocity, group velocity and their relations.	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	Heisenberg Uncertainty Principle; Estimating minimum energy of a confined particle using uncertainty principle; Energy-time uncertainty principle, Properties of wave-function, Physical Interpretation of wave-function. Schrodinger Equation: Momentum and Energy operators, Stationary states, Physical interpretation of a wave function, probabilities and normalization, Schrodinger Equation, Particle in 1-dimension infinite potential well.	Test
4 th week of Dec. 2021 To 1 st week of Jan. 2022	LASER: Absorption and emission of radiation (qualitative only); Basic features of LASER, Population inversion; Resonance cavity; laser pumping; threshold condition for laser emission; Einstein's Co-efficient, 3 level and 4 level system, Basic principle and working of He-Ne LASER and Ruby LASER, Applications of LASER.	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation – **Dr. Himani** (Assistant Professor)

Papers Taught and Classes – **Element of Modern Physics (PH-501)** and **Nuclear Physics (PH-502)** to B.Sc. 3rd year Section D
Department – Physics

Week/Month	Topics/Units Covered		Test/Assignments
	B.Sc. 3 rd year Section D	B.Sc. 3 rd year Section D	
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Introduction to Quantisation: Properties of Thermal Radiation, Spectral Distribution of Blackbody Radiation, Kirchhoff's Law, Stefan-Boltzmann Law and Wien's Distribution and Displacement law, Rayleigh-Jean's Law, Ultraviolet Catastrophe, Planck's Quantum Postulates, Planck's Law of Blackbody Radiation: Experimental Verification. Photo-electric effect and Compton scattering; Pair production and annihilation, Bremsstrahlung effect, Cherenkov radiation, Production of X-rays.	Nuclear Structure and Properties of Nuclei Nuclear composition (p-e and p-n hypotheses), Nuclear properties; Nuclear size, spin, parity, statistics, magnetic dipole moment, quadrupole moment (shape concept). Determination of mass by Bain-Bridge, Bain-Bridge and Jordan mass spectrograph. Determination of charge by Mosley Law. Determination of size of nuclei by Rutherford Back Scattering. mass and binding energy, systematic of nuclear binding energy, nuclear stability	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Bohr Model: Drawbacks of Rutherford model, Bohr atomic model; Bohr's quantization rule and atomic stability; Calculation of energy levels for hydrogen like atoms and their spectra, Effect of nuclear mass on spectra, Correspondence principle. Fundamentals of Wave Mechanics: De Broglie wavelength and matter waves; Wave-particle duality; Frank-Hertz, Davison and Germer experiment, phase velocity, group velocity and their relations.	Nuclear Radiation decay Processes Alpha-disintegration and its theory. Energetics of alpha-decay, Origin of continuous beta spectrum (neutrino hypothesis), types of beta-decay and energetics of beta-decay. Nature of gamma rays, Energetics of gamma rays. Radiation interaction Interaction of heavy charged particles (Alpha particles); Energy loss of heavy charged particle (idea of Bethe formula, no derivation), Range and straggling of alpha particles. Geiger-Nuttal law. Interaction of light charged particle (Beta-particle), Energy loss of beta-particles (ionization), Range of electrons, absorption of beta-particles. Interaction of Gamma Ray; Passage of Gamma radiations through matter (Photoelectric, Compton and pair production effect) electron-positron annihilation. Absorption of Gamma rays (Mass attenuation coefficient) and its application.	Assignment
2 nd week of Dec. 2021 To 3 rd week of	Heisenberg Uncertainty Principle; Estimating minimum energy of a confined particle using uncertainty principle; Energy-time uncertainty principle, Properties of wave-function, Physical Interpretation of wave-function. Schrodinger Equation: Momentum	Nuclear Accelerators Linear accelerator, Tandem accelerator, Cyclotron and Betatron accelerators. Nuclear Radiation Detectors. Gas filled counters; Ionization chamber, proportional counter,	Test

Dec. 2021	and Energy operators, Stationary states, Physical interpretation of a wave function, probabilities and normalization, Schrodinger Equation, Particle in 1-dimension infinite potential well.	G.M. Counter (detailed study), Scintillation counter and semiconductor detector	
4 TH week of Dec. 2021 To 1 st week of Jan. 2022	LASER: Absorption and emission of radiation (qualitative only); Basic features of LASER, Population inversion; Resonance cavity; laser pumping; threshold condition for laser emission; Einstein's Co-efficient, 3 level and 4 level system, Basic principle and working of He-Ne LASER and Ruby LASER, Applications of LASER.	Nuclear reactions Nuclear reactions, Elastic scattering, Inelastic scattering, Nuclear disintegration, Photonuclear reaction, Radiative capture, Direct reaction, Heavy ion reactions and spallation Reactions. Conservation laws, Q-value and reaction threshold. Nuclear Reactors Nuclear Reactors, General aspects of Reactor Design. Nuclear fission and fusion reactors, (Principle, construction, working and use).	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision and Doubt Session of All Units	Revision

Lesson Planning for the semester w.e.f. 08/11/2021

Dayanand College, Hisar

Name of Teacher with Designation –**Mr. Chetan Sharma** (Assistant Professor)

Paper Taught – **Nuclear Physics (PH-502)**

Class – B.Sc. 3rd year Section C,F

Department – Physics

Week/Month	Topics/Units Covered	Test/Assignments
2 nd week of Nov. 2021 To 3 rd week of Nov. 2021	Nuclear Structure and Properties of Nuclei Nuclear composition (p-e and p-n hypotheses), Nuclear properties; Nuclear size, spin, parity, statistics, magnetic dipole moment, quadruple moment (shape concept). Determination of mass by Bain-Bridge, Bain-Bridge and Jordan mass spectrograph. Determination of charge by Mosley Law. Determination of size of nuclei by Rutherford Back Scattering. mass and binding energy, systematic of nuclear binding energy, nuclear stability	Test
4 th week of Nov. 2021 To 1 st week of Dec. 2021	Nuclear Radiation decay Processes Alpha-disintegration and its theory. Energetics of alpha-decay, Origin of continuous beta spectrum (neutrino hypothesis), types of beta-decay and energetics of beta-decay. Nature of gamma rays, Energetics of gamma rays. Radiation interaction Interaction of heavy charged particles (Alpha particles); Energy loss of heavy charged particle (idea of Bethe formula, no derivation), Range and straggling of alpha particles. Geiger-Nuttall law. Interaction of light charged particle (Beta-particle), Energy loss of beta-particles (ionization), Range of electrons, absorption of beta-particles. Interaction of Gamma Ray; Passage of Gamma radiations through matter (Photoelectric, Compton and pair production effect) electron-positron annihilation. Absorption of Gamma rays (Mass attenuation coefficient) and its application.	Assignment
2 nd week of Dec. 2021 To 3 rd week of Dec. 2021	Nuclear Accelerators Linear accelerator, Tandem accelerator, Cyclotron and Betatron accelerators. Nuclear Radiation Detectors. Gas filled counters; Ionization chamber, proportional counter, G.M. Counter (detailed study), Scintillation counter and semiconductor detector	Test
4 TH week of Dec. 2021 To 1 st week of Jan. 2022	Nuclear reactions Nuclear reactions, Elastic scattering, Inelastic scattering, Nuclear disintegration, Photonuclear reaction, Radiative capture, Direct reaction, Heavy ion reactions and spallation Reactions. Conservation laws, Q-value and reaction threshold. Nuclear Reactors Nuclear Reactors, General aspects of Reactor Design. Nuclear fission and fusion reactors, (Principle, construction, working and use).	Assignment
2 nd week of Jan. 2022 Onward	Revision and Doubt Session of All Units	Revision

Lesson Plan w.e.f. 08.11.2021

Name Of the Institute : Dayanand P.G College, Hisar

Name Of The Teacher : Mr. Narender Soni

Designation : Assistant Professor

Department : Mass Communication

Class : BAMC 3rd Sem

Subject : Political Communication

Month	Topic Covered	Test/ Assignments
November	Politics: Definition; Origin & Growth of Politics; Role of Politics; Social order in India; Political System.	
December	Principle of Political system; Political thoughts- J.J. Rauso, August Camte, Karl Marx, Emile Durkheim; Mass Political Behaviour; Media Agenda- Who sets What.	Assignment
January	Political Campaign; Political Campaign: Meaning, Concept & Scope; Media use of Political Campaign- Newspapers, TV, Radio, Internet; Role of Social Networking sites.	Assignment
February	Political Communication; Group Discussion & Politics; Role of Cartoons, Caricature, illustrations; Exit Poll and Media.	Test
March	Revision of All 4 Unit	

Lesson Plan w.e.f. 08.11.2021

Name Of the Institute : Dayanand P.G College, Hisar
Name Of The Teacher : Mr. Narender Soni
Designation : Assistant Professor
Department : Mass Communication
Class : BAMC 5th Sem
Subject : Development Communication

Month	Topic Covered	Test/ Assignments
November	Development: Concept, concerns, paradigms, Development versus growth Mass Media as a tool for development Role, performance record of each medium- print, radio, TV & new media	
December	Basic needs model Nehruvian model Gandhian model Panchayati raj, Developing countries versus developed countries	Assignment
January	Development Communication: Concept and approaches, Dominant paradigm, Dev comm. approaches – diffusion of innovation, empathy, magic multiplier Sustainable Development	Assignment
February	E-governance, e- chaupal, national knowledge network ICT for development, Narrow casting: agriculture, health & family welfare, population, women Empowerment, Poverty, Unemployment	Test
March	Revision of All 4 Unit	

Lesson Plan w.e.f. 08.11.2021

Name Of the Institute : Dayanand P.G College, Hisar
Name Of The Teacher : Mr. Narender Soni
Designation : Assistant Professor
Department : Mass Communication
Class : BAMC 1ST Sem
Subject : Communications Skills

Month	Topic Covered	Test/ Assignments
November	Writing with a purpose Speaking With Confidence Communicating Effectively Interacting in group Self- talk	
December	listening ability Hearing and listening Type of listing Effective listening	Assignment
January	group discussions with students, give work to prepare speech on social political issues, presentations on current topics ,	Assignment
February	self-talk Self- assessment, listening exercise in class on current issues discussed in Media.	Test
March	Revision of All 4 Unit	

Lesson Plan w.e.f. 08.11.2021

Name Of the Institute : Dayanand P.G College, Hisar
Name Of The Teacher : Mr. Narender Soni
Designation : Assistant Professor
Department : Mass Communication
Class : BAMC 3rd Sem
Subject : MEDIA WRITING

Month	Topic Covered	Test/ Assignments
November	Essentials of Good Writing; Is writing an art or a craft? Kinds of Media Writing: Writing to Inform; Writing to Persuade; The ABCD of Media Writing.	
December	Enhance vocabulary; Writing Simply; Vocabulary; Vocabulary Building: Using Dictionaries and Thesaurus; Punctuation Marks: importance.	Assignment
January	The Art of Putting Words Together; The Sentence; Concision/Clarity; Rhythm - Words and How they Sound; Variety of words; Changing Sentence Length & Pattern.	Assignment
February	Putting Sentences Together; The Paragraph; Concise Ideas; Ideas Dissected into Elements; Elements as Paragraphs & Sub Paragraphs; Putting Paragraphs Together; Logical Sequencing.	Test
March	Revision of All 4 Unit	

Lesson Plan w.e.f. 01.04.2022

Name Of the Institute : **Dayanand P.G College, Hisar**

Name Of The Teacher : **Mr. Narender Soni**

Designation : **Assistant Professor**

Department : **Mass Communication**

Class : **BAMC 3rd Sem**

Subject : **MEDIA WRITING SKILLS (Production)**

Month	Topic Covered	Test/ Assignments
November	Writing Headlines/Sub Head- 5; Press release- 5	Assignment
December	Writing reports- 3; Short story- 2	Assignment
January	Letter to editor- 2; Article- 2	Assignment
February	Feature- 2; Photo Caption-5	Assignment
March	Revision of All Work	

Name of Faculty Member: - Rekha Rani

Designation: - Assistant Professor

Class: - BMC 1st

Semester: - 1st

Subject: - Introduction to Communication (101)

BMC Lesson Plan :(8.11.2021)

Month	Class	Topic/Chapter Covered	Test/Assignment
November	BMC 1 st	Human Communication: Concept and definition Function of communication, Process of communication, Elements of communication, Barriers of communication	Assignment
December	BMC 1 st	Verbal Communication: Written and Oral communication Non – verbal communication: Senses Emblems Gesture Sing symbols Visual communication: visual aids such as sings typography drawing design illustration colour and other electronic resources.	Assignment
January		Intrapersonal Interpersonal communication Small Group communication function of group communication Mass communication Public communication responsibility of a public speaker & audience relationship Speech delivery conversation versus speech physical delivery & style communication skills and Mass	Test

		communication an overview	
February		All revision	

Class: - BMC

Semester: - 1st

Subject: - Basic of Journalism (102)

BMC Lesson Plan: (8.11. 2021)

Month	Class	Topic/Chapter Covered	Test/Assignment
November	BMC 1 st	Journalism: Meaning, definition Practice of journalism Tabloid & Magazine journalism Type of journalism- investigative journalism, precision Journalism, Yellow journalism,	Test
December		Principles of journalism News gathering-5w's and 1H News value & selection process of news Use of archives, Source News & Use of internet	Assignment
January		New trends in journalism Changing trends in journalism: An overview New sources of news gathering New Media and News Credibility	Assignment
February		Writing for different Media Difference between Print, Radio & Television writings Writing of online journalism	Test

		Mobile journalism	
		Revision all topic	

Name of Faculty Member: - Rekha Rani

Designation: - Assistant Professor

Class: - BMC^{2nd}

Semester: - 3rd

Subject: - History of Print Journalism (112)

BMC Lesson Plan: w.e.f.(08.11.2021)

Month	Class	Topic	Test/Assignment
November	BMC 2 nd	History of print journalism Pre and post independence journalism Early newspapers in India Growth of Indian Language press- Bangla, Marathi, Hindi and Urdu Prominent newspapers and their editors. Role of newspaper in India's freedom struggle.	
December		News Agencies : News agencies in India – English & Hindi functions and role – PTI, UNI-Varta, Bhasha, Samachar feature services & syndicates – INFA, publication syndicate , PTI Features, International News agencies- Reuters; AP;AFP, UPI and TASS	Assignment

January		Press Organization Government Media Organization – PIB, Photo Division, DAVP, RNI, Directorate of Information & public relation of various state governments	Assignment
February		Popular news magazines and periodicals, other media related organisation- ABC , INS, Editors Guild, IFWJ,AUJ,PII, News Broadcaster (NBA)	Test

Name of Faculty Member: - Rekha Rani

Designation: - Assistant Professor

Class: - BMC^{3rd}

Semester: - 5th

Subject: - Television Broadcasting (123)

BMC Lesson Plan :(8.11.2021)

Month	Class	Topic	Test/Assign.
November	BMC 3	History of TV in India, Role of TV in development Durdarshan: Function and broadcasting	

December		Camera movements , Types of shots ,Angle, Camera parts , lighting techniques	Assignment
January		TV news, reporting, news sources, selection, presentation, Electronic News gathering & Field production Elements of TV news bulletins Announcing on TV.	Assignment
February		Basics of TV script writing, Writing scripts for TV features , Special programs and serials, scripts for TV ads, News as Event, Performance and construction	Test
Feb.		Revision all topic	

DAYANAND PG College, HISAR

Lesson Plan of Year 2021-2022

Department- Mathematics

Course Name- Algebra:CML-106/BAMH111

Programme Name-B.Sc(Non Med, Electronics, Comp. Science)/B.A. I

Teachers-Dr. Inderjit Singh,Mrs. Kanta,Ms Rekha,Mrs. Namrata SEM-I

Month	Week	Topic	Assignment/ Test
N O V	3rd	1.symmetric, skew symmetric	
	4th	2.Hermitian and skew-Hermitian.	
D E C	1st	1. Elementary operation on matrices, Rank of a matrix. Inverse of a matrix.	1st Assignment
	2nd	2. Linear dependence and independence of rows and columns of matrices, Row rank and column rank of a m	
	3rd	3. Eigen values, eigen vectors and the characterstic equation of a matrix, Minimal polynomial of a matrix.	
	4th	4. Cayley Hamilton theorem and its use in finding inverse of a matrix.	
J A N	1st	1. Application of matrices to a system of linear (both homogenous and non-homogenous) equations.	Minor Test
	2nd	2. Theorems on consistency of a system of linear equations	
	3rd	3. Unitary and Orthogonal Matrices,Bilinear and Quadratic forms.	
	4th	4 .Descarte's rule of signs,Relations between the roots and coefficients of general polynomial equation in one variable.	
F E B	1st	1.Solution of polynomial equations having conditions on roots,Common roots and multiple roots.	2nd Assignment
	2nd	2.Transformation of equations,Nature of the roots of an equation.	
	3rd	3.Descarte's rule of signs, Solution of cubic equations (Cardan's method).	
	4th	Revision , Test	

COURSE:CALCULUS:CML-107/BAMH112

Programme Name- B.Sc.(Non Med, Electronics, Comp. Science)/B.A I

Teacher-Ms. Kiran,Ms. Parul,Mr. Amit,Ms. Rekha Rani SEM-I

Month	Week	Topic	Assignment/ Test
NOV	3rd	Definition of the limit of a function, Basic properties of limits, Continuous functions and classification of discontinuity	
	4th	Differentiability, Successive differentiation.	
DEC	1st	Leibnitz theorem, Maclaurin and Taylor series expansions	1st Assignment
	2nd	Asymptotes in Cartesian coordinates, Intersection of curve and its asymptotes	
	3rd	Asymptotes in polar coordinates, Curvature	
	4th	Radius of curvature for Cartesian curves, parametric curves, polar curves, Newton's method	
JAN	1st	Radius of curvature for pedal curves, Tangential polar equations.	Minor Test
	2nd	Centre of curvature, Circle of curvature, Chord of curvature, evolutes	
	3rd	Tests for concavity and convexity, Point of inflexion, Multiple points, Cusps, nodes and conjugate points, Type of cusps	

	4th	Tracing of curves in Cartesian, parametric and polar co-ordinates.	
FEB	1st	Reduction formulae, Rectification.	2nd Assignment
	2nd	Intrinsic equations of curve, Quadrature (area) Sectorial area	
	3rd	Area bounded by closed curves., Volumes and Surfaces of solids of revolution	
	4th	Theorems of Pappu's and Guilden.	
		Revision	

COURSE: PRACTICAL IN PROGRAMMING IN C: CMP110/BAMH 113

Programme Name- B.Sc(Non Med, Electronics, Comp. Science)/B.A. I

Teacher- Dr. Inderjit Singh, Ms. Renu, Ms. Kiran Mr. Monu, Ms. Parul

SEM-I

Month	Week	Topics
NOV	3rd	Program To Calculate Simple Interest , Program to calculate Compound Interest .
	4th	Program To Calculate Arithmetic Mean Of Three Numbers
DEC	1st	Program To Calculate Area And Perimeter Of A Circle
		Program To Calculate Area Of Triangle By Heron's Formula
	2nd	Program To Check Whether The Number Is Odd or Even
		Program to Calculate Greatest Of Three Numbers
	3rd	Program To Find The Roots Of A Quadratic Equation
	Program to Reverse The Digits Of A Positive Number	
	4th	Program to Convert Decimal To Binary
JAN	1st	Program To Generate First n Prime Numbers
	2nd	Program to Check Whether The Number Is Prime or not
	3rd	Program To Check A Year Is Leap Or Not
	4th	Program To Find The Sum Of First n Natural Numbers
February	1st	Program to Generate Pyramid
	2nd	Program to find simple interest using switch statement
	3rd	Program to prepare Electricity Bill,
	4th	Program to Calculate Gross salary of an Employee
		Practical File Completion

COURSE NAME: NUMERICAL ANALYSIS: CML-307/BAMH202

PROGRAM NAME- B.Sc(Non Med, Electronics, Comp. Science)/B.A III

TEACHERS- Mr. Khawaish, Dr. Neeru Bala, Mr. Hitesh

SEM-III

Month	Week	Topic	Test/Assign.
NOV	3rd	Finite difference operators and their relation , finding the missing terms and effect of error in a difference tabular values	
	4th	interpolation with equal intervals : Newton 's forward and backward interpolation formulae	
DEC	1st	Newton's divided difference, Lagrange's interpolation formulae , Hermite formulae	Assignment
	2nd	central difference : Gauss forward and backward interpolation formulae, Sterling , Bessel formulae	
	3rd	Binomial , Poisson , normal distribution, Numerical differentiation	
	4th	Eigen value problems : Power method , Jacobi's method, Given's method,	
	1st	Numerical Integration: Newton -Cote's formula, trapezoidal rule , Simpson's rule	

J	2nd	Gauss quadrature formula, chebychev formula	
A	3rd	Numerical solution of ordinary differential equations: single step method	Minor Test.
N	4th	,picards method ,taylor series method	
.	4th	Euler 's method ,runge-kutta method	
F	1st	Multiple step methods, Predictor-Corrector method	
E	2nd	Modified Euler's method, Milne simpson's method	
B	3rd	Revision, Group Discussion	
B	4th	Test	

Course Name- Advanced Calculus- CML306/BAMH201

Programme Name- B.Sc.(Non Med, Electronics, Comp. Science), B.A II

Teacher- Ms. Parul, Ms. Renu, Mr. Mandeep

SEM-III

Month	Week	Topic	Test/Assign.
N O V	3rd	Continuity, Sequential continuity, properties of continuous functions, Uniform continuity.	
	4th	Chain rule of differentiability, Mean value theorems, Rolle's theorem and Lagrange's mean value theorem and their geometrical interpretations.	
D E C	1	Taylor's theorem with various form of remainders.	Assignment
	2nd	Darboux intermediate value theorem for derivatives, Indeterminate forms.	
	3rd	Limit and continuity of real valued functions of two variables.	
	4th	Partial differentiation, Total differentials.	
J A N	1st	Composite functions and implicit functions, Change of variables, Homogeneous functions.	Test
	2nd	Euler's theorem on homogeneous functions, Taylor's theorem for functions of two variables.	
	3rd	Differentiability of real valued functions of two variables. Schwarz and Young's theorem, Implicit function theorem.	
	4th	Maxima, Minima and saddle points of two variables. Lagrange's method of multipliers	
F E B	1st	Curves: Tangents, Principal normals, Binormals.	Assignment
	2nd	Serret-Frenet formulae, Locus of the centre of curvature. Spherical curvature	
	3rd	Locus of centre of Spherical curvature. Involutives, Evolutes, Bertrand curves.	
	4th	Revision and Group Discussion	

Course Name- Maths Lab-III-CMP310/BAMH203

Programme Name- B.Sc.(Non Med, Electronics, Comp. Science), B.A II

Teacher- Dr. Neeru Bala, Mr. Vikas, Ms. Kanta, Mr. Amit, Ms. Rekha Rani, Mr. Hitesh

Month	Week	Topic
S E P	3rd	To interpolate the data using Newton's forward interpolation formula
	4th	To interpolate the data using Newton's backward interpolation formula
O C	1st	To interpolate the data using Gauss's forward interpolation formula
	2nd	To interpolate the data using Gauss's backward interpolation formula
	3rd	To interpolate the data using Lagrange's interpolation formula

T	4th	To find the roots of algebraic and transcendental equations using Bisection method
N O V	1st	To find the roots of algebraic and transcendental equations using Regula-Falsi method.
	2nd	To find the roots of algebraic and transcendental equations using Secant method.
	3rd	To find the roots of algebraic and transcendental equations using Newton-Raphson's method.
	4th	To solve the system of linear equations using Gauss -elimination method.
D E C	1st	To solve the system of linear equations using Gauss -Seidal iteration method.
	2nd	To solve the system of linear equation using Gauss –jordan method.
	3rd	To find the largest eigen value of a matrix by Power -method.
	4th	To integrate numerically using Trapezoidal rule.
J A N	1st	To integrate numerically using Simpson's one- third rule.
	2nd	To integrate numerically using Simpson's three-eighth rule.
	3rd	To find numerical solution of ordinary differential equations by Euler's method/ Modified Euler's method.
	4th	To find numerical solution of ordinary differential equations by Runge -Kutta method.

Course Name- Groups & Rings:CML-506/BAMH301

Programme Name- BA/BSc.(Non Med, Electronics, Comp. Science) III

TEACHERS- Mr. Vikas,Mrs. Namrata, Mr. Hitesh

SEM-V

Month	Week	Topic	Assignment/ Test
S E P	3rd	Definitions of a Group, Examples of Abelian and Non Abelian groups.	
	4th	The group Z_n of integers under addition modulo n & group $U(n)$, Cyclic Groups	
O C T	1st	Subgroups and Criteria, Cosets and Properties	1st Assignment
	2nd	Index of Subgroup,Coset decomposition, Lagrange's Theorem and its Consequences	
	3rd	Normal Subgroups,	
	4th	Quotient Groups, Homomorphisms	
N O V	1st	Isomorphisms, Automorphisms on Group,	Minor Test
	2nd	Permutation Groups, Alternating Groups	
	3rd	Centre of a group, Class equation of group, Introduction to Rings.	
	4th	Subrings, Integral Domains and Fields.	
D	1st	Characteristics of Ring , Ideals(Principle, Prime and Maximal)	
	2nd	Ring Homomorphism, Theorem on Ring Homomorphism	

D E C	2nd	Ring Homomorphism, Theorem on Ring Homomorphism	2nd Assignment
	3rd	Quotient Rings, Field of Quotients of an Integral Domain,	
	4th	Euclidean Ring	
J A N	1st	Polynomial Rings, Polynomial over Rational Field,	Revision Tests
	2nd	Eisenstein Criteria of Irreducibility	
	3rd	PID, UFD	
	4th	Test & Revision	

COURSE:SEQUENCES AND SERIES:CML-507/BAMH302

PROGRAM NAME-B.Sc(Non Med, Electronics, Comp. Science)/B.A III

TEACHERS - Mr. Vikas,Ms. Kiran,Mr. Vinesh

SEM-V

Month	Week	Topic	Test/Assign.
N O V	3rd	Topology of real numbers:boundedness,infimum,supremum,limit points,neighbourhoods	
	4th	interior points,open sets,closed sets,closure of a set	
D E C	1st	Sequences: real sequences and their convergence,theorems on limits of sequences	Assignment
	2nd	bounded and monotononic sequences,cauchy's sequences,subsequences	
	3rd	convergence and divergence of infinite series ,comparison tests,cauchy's general principle of convergence	
	4th	convergence and divergence of geometric series,hyperharmonic series ,	
J A N	1st	Rabbe's test ,De morgan test,gauss test, cauchy's nth root and condensation test	
	2nd	Alternating series ,Arbitrary series	
	3rd	Fourier's series,Dirichlet's conditions,parseval's identity for fourier series	
	4th	Fourier's series for even and odd functions,half range series,change of intervals	
F E B	1st	Riemann's integral,darboux's theorem,integrability of continuous,monotonic functions and discontinuous functions	U r T
	2nd	The fundamental theorem of integral calculus, mean value theorems of in	
	3rd	Revision,Group Discussion	
	4th	Test	

Course -Number Theory & Trigonometry:CML-508/BAMH303

Programme Name- B.A/BSc.(Non Med, Electronics, Comp. Science)III

Teachers- Mr. Monu,Mr. Naresh,Mr. Vinesh

SEM-V

Month	Week	Topic	Test/Assign.
S P E T	3rd	Primes, Fundamental Theorem of Arithmetic	
	4th	Linear Diophantine equations in two variables.	
	1st	Linear Congruences	
	2nd	Femat's theorem, Wilson's theorem and its converse.	

O C T .	3rd	Divisibility, G.C.D.(Greatest Common Divisors), L.C.M.(Least Common Multiple).	Assignment
	4th	The number of divisors and the sum of divisors of a natural number n (The functions $d(n)$ and $s(n)$).	
N O V .	1st	Complete Residue System and Reduced Residue System modulo m , Euler ϕ function.	Test
	2nd	Euler's Generalization of Fermat's theorem,	
	3rd	Chinese Remainder Theorem, Quadratic Residues.	
	4th	Moebius Function and Moebius Inversion Formula.	
D E C .	1st	Legendre Symbols, Lemma of Gauss	
	2nd	Gauss Reciprocity law, Greatest integer function $[x]$.	
	3rd	Expansion of trigonometrical functions. Direct circular and their properties.	
	4th	Hyperbolic functions and their properties.	
J A N .	1st	Inverse circular and hyperbolic functions and their properties, Logarithm of a complex quantity.	Assignment
	2nd	Gregory's series, Summation of trigonometric series.	
	3rd	Revision, Group Discussion	
	4th	Test	

Course Name-Business Mathematics-I:BC-105

Programme Name- BCom. I

Teachers-Ms. Renu, Ms. Rekha Rani

Sem-I

Month	Week	Topics	Assignment/Test
N O V	3rd	Logarithm	
	4th	Anti-logarithm	
D E C	1st	Arithmetic Progression	1st Assignment
	2nd	Geometric Progression	
	3rd	Simple derivative of different functions	
	4th	Rules of differentiation	
J A N	1st	Maxima and Minima of functions of one variable.	Minor Test
	2nd	Definition and Types of matrix.	
	3rd	Algebra of matrices, Properties of determinant.	
	4th	Adjoint of matrices, Elementary row and column operation, Finding inverse of matrices.	
F E B	1st	Solution of a system of linear equations having unique solution and involving not more than three variables.	2nd Assignment Revision Tests
	2nd	Certain different types of interest rates. Concept of present value And amount of sum.	
	3rd	Types of annuities, Present value and amount of an annuity.	
	4th	Valuation of simple loans and debentures, Problems relating to sinking funds.	

PROGRAMME NAME-B.B.A I

COURSE NAME:ELEMENTS OF BUSINESS MATHEMATICS:BBA-105

TEACHER-Mr. Hitesh

SEM-I

Month	Week	Topic	Test/Assign.
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N O V	3rd	Theory of sets- Meaning ,elements,types ,presentation and equality of sets	
	4th	Union ,intersection, complement and difference of sets ,venn diagram	
D E C	1st	Cartesian product of two sets ,application of set theory	Assignment
	2nd	Indices and logarithms ,arithmetic and geometric progressions and their bussiness applications	
	3rd	Sum of first n natural numbers, sum of squares and cubes of first n natural number	
	4th	Permutations	
J A N	1st	Combinations	Minor test
	2nd	Binomial theorem ,Quadratic equations	
	3rd	Matrices- Types,Properties,Addition,Multiplication,Transpose,Inverse	
	4th	Properties of determinants, solution of simultaneous linear equation	
F E B	1st	Differentiation and Integration	
	2nd	Bussiness application of Matrices	
	3rd	Revision,Group Discussion	
	4th	Test	

Programme Name-M.Sc. I

Teacher- Mr. Vikas

Course Name- Algebra-MAL:511

Sem-I

Month	Week	Topic	Assignment/ Test
N O V	3rd	Zassenhaus's lemma,normal and subnormal series, composition series	
	4th	Scheiers theorem ,Jordan -Holder theorem, commutators and their prop	
D E C	1st	Three subgroup lemma of P.Hall,central series, nilpotent groups	Assignment
	2nd	Upper and Lower central series and their properties ,invariant and chief series	
	3rd	Solvable groups , derived series , field theory ,Prime fields	
	4th	Extension fields,Algebraic and Transcendental extensions and their theorems	
J A N	1st	Algebraically closed field,Conjugate elements	Minor Test
	2nd	Normal extensions ,Separable and Inseparable extensions	
	3rd	Perfect fields,Construction with ruler and compass	
	4th	Finite Fields, Roots of unity ,Cylotomic polynomial , Primitive elements	
F E B	1st	Automorphisms of extensions ,Galois extension ,Fundamental theorem of Galois theory	
	2nd	Solutions of polynomial equations by radicals ,insolvability of the general equation of degree five by radicals	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name-M.Sc. I

Teacher-Mr. Monu

Course Name- Real Analysis-MAL:512

Sem-I

Month	Week	Topic	Assignment/ Test
N O V	3rd	Definition and existence of Reimann-Stieltjes integral ,properties of the integral , Integration and differentiation	
	4th	Fundamental theorem of calculus ,integration of vector valued function	
D E C	1st	Sequences and series of function , pointwise and uniform convergence, cauchy criterion for uniform convergence	Assignment
	2nd	Weierstrass M-Test, Abel's and Dirichlet's tests , Uniform convergence and continuity	
	3rd	Uniform convergence and Reimann-Stieltjes Integration ,Weierstrass Approximation theorem	
	4th	Power series, Uniqeness theorem for power series , Abel's Theorems	
J A N	1st	Functions of several variables, linear transformations,derivatives in an open subset,partial derivatives,derivatives of higher orders	Minor Test
	2nd	Taylor's theorem,Inverse function theorem,Implicit function theorem,Jacobians,Lagrange'smultiplier method	
	3rd	extremum problems with constraints,Set functions	
	4th	Intuitive idea of measure ,Elementary properties of measure ,Measurable sets and their fundamental properties	
F E B	1st	Lebesgue measure of sets of real numbers,algebra of measurable sets, Borel sets	
	2nd	Equivalent formulation of measurable sets in tems of open ,closed,Non Measurable sets	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name-M.Sc. I
Teacher-Mr. Khawaish

Course Name- MECHANICS-MAL:513
SEM-I

Month	Week	Topic	Assignment/ Test
N O V	3rd	Moments and products of Inertia,Theorems of parallel and perpendicular axes,principal axes	
	4th	The momental ellipsoid,Equipomental systems,Coplanar distributions,G	
D E C	1st	Holonomic and non holonomic systems,Scleronomic and Rheonomic systems,Lagrange's equations for a holonomic system	Assignment
	2nd	Lagrange's equations for a conservative and impulsive forces,Kinetic energy as quadratic function of velocities,Generalized potential,Hamilton's variables	
	3rd	Hamilton's variables , Donkin's theorem,Hamilton canonical equations,Cyclic coordinates,Routhj's equations,Jacobi-Poisson theorem	
	4th	Hamilton's Principle ,Principle of least action,Poincare Cartan integral invariant,Whittaker's equations,Hamilton-Jacobi equation,method of seperation of variables	

J A N	1st	Lagrange's brackets, condition of canonical character of transformation in terms of Lagrange brackets and poisson brackets	Minor Test
	2nd	Invariance of Lagrange brackets and poisson brackets under canonical transformations	
	3rd	Gravitation : Attraction and potential of rod ,disc,spherical shells and sp	
	4th	Laplace and Poisson equations ,Work done by self attracting systems	
F E B	1st	Distributions for a given potential ,Equipotential surfaces ,surface and solid harmonics	
	2nd	surface density in terms of surface harmonics	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name-M.Sc. I
Teacher- Mrs. Namrata

COURSE NAME: ORDINARY DIFFERENTIAL EQUATIONS-MAL:514
SEM-I

Month	Week	Topic	Assignment/ Test
N O V	3rd	Initial value problem and the equivalent integral equation, ε -approximate solution, Cauchy -Euler construction of an ε -approximate solution, Ascoli-Arzela theorem	
	4th	Cauchy-Peano existence theorem , Lipschitz condition, Picard-Lindelof theorem	
D E C	1st	solution of initial-value problems by Picard method, Approximate methods of solving first-order equations: Power series method , Numerical methods	Assignment
	2nd	Continuation of solutions, maximum interval of existence, Extension theorem, Dependence of solutions on initial conditions	
	3rd	Matrix method for homogeneous first order systems, nth order equations	
	4th	Total differential equations: Conditions of integrability , methods of solution	
J A N	1st	Gronwall's differential inequality , comparison theorems involving differential inequalities	Minor Test
	2nd	Zeros of solutions, Sturm's separation and comparison theorems, Oscillatory and non oscillatory equations	
	3rd	Riccati's equations and its solution, Pruffer transformation	
	4th	Sturm-Liouville boundary value problems	
F E B	1st	Lagrange's identity and green's formula for second order equation	
	2nd	properties of eigen values and eigen functions	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name-M.Sc. I
Teacher- Mr. Naresh

COURSE NAME: COMPLEX ANALYSIS-I-MAL:515
Sem-I

Month	Week	Topic	Assignment/ Test
N O V	3rd	Cauchy Riemann equations, Analytic functions, Reflection principle	
	4th	Complex Integration , Antiderivatives, Cauchy-Goursat theorem	
D E C	1st	Simply and multiply connected domains, Cauchy Integral formula, Higher order derivatives	Assignment
	2nd	Morera's theorem, Cauchy's inequality, Liouville's theorem	
	3rd	The fundamental theorem of Algebra, Maximum Modulus principle, Schwarz lemma	
	4th	Poisson's formula, Taylor's series, Laurent's series	
J A N	1st	Isolated singularities, Meromorphic functions, Argument principle	Minor Test
	2nd	Rouche's theorem, Residues , Cauchy's residue theorem	
	3rd	Evaluation of integrals, Mittag-Leffler's expansion theorem	
	4th	Branches of many valued functions with special reference to $\arg z$, $\log z$	
F E B	1st	Bilinear transformations, their properties and classification	
	2nd	Examples of conformal mapping	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name-M.Sc. I
Teacher- Mr. Mandeep

COURSE NAME: PROGRAMMING WITH FORTRAN (THEORY)-MAL:516
Sem-I

Month	Week	Topic	Assignment/ Test
N O V	3rd	Computer Programming in FORTRAN 90/95: Numerical constants and variables, arithmetic expressions , implicit declaration, named constants, input/output	
	4th	list directed input /output statements, Format specifications	
D E C	1st	Declaration including KIND specifications, use of complex variables	Assignment
	2nd	Logical expressions and control flow, conditional flow, IF structure, Block DO loop	
	3rd	Counted controlled loops, arrays, input/output of arrays, arrays with variable size using ALLOCATABLE statement	
	4th	arrays handling functions, multidimensional arrays	
J A N	1st	Strings , declaration of character variables, character handling functions	Minor Test
	2nd	operators on strings, Subprograms, Types of Subprograms	
	3rd	Significance functions, subroutines, procedures with array arguments, Rec	
	4th	Derived types, Elements of derived type, arrays and derived type Processing files	
F E B	1st	Sequential file, Direct Access file, creating and closing a file	
	2nd	Pointers and Accessing elements using pointers with example	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name- MScI

COURSE : PROGRAMMING WITH FORTRAN (PRACTICAL)-MAL:517

Teacher- Mr. Mandeep

SEM-I

Month	Week	Topics
N O V	3rd	Program To find area of circle
	4th	Program to find area of triangle by Heron's formula
D E C	1st	Program To check leap year
		Program To find sum of digits of a number
	2nd	Program To find sum of sine series
		Program to Calculate Greatest Of Three Numbers
	3rd	Program To Find The Roots Of A Quadratic Equation
		Program to generate Fibonacci Series
J A N	4th	Program to find sum of cosine series
	1st	Program to find the sum of matrix
	2nd	Program to Check Whether The Number Is Prime or not
	3rd	Program To find transpose of a matrix
F E B	4th	Program To Find The trace of a matrix
	1st	Program to find product of matrix
	2nd	Program to generate first n prime numbers
	3rd	Revision

Programme Name-M.Sc. II

COURSE NAME: TOPOLOGY-MAL631

Teacher- Ms. Renu

Sem-III

Month	Week	Topic	Assignment/ Test
N O V	3rd	Definitions and examples of topological spaces,Closed sets,Closure,Dense subsets,Neighbourhoods,Interior ,Exterior and boundary points of a set	
	4th	Accumulation points and derived sets,Bases and subbases,Subspaces	
D E C	1st	Alternate methods of defining a topology in terms of Kuratowski Closure operator and neighbourhood systems,continuous functions and homeomorphisms	Assignment
	2nd	Compactness,Continuous functions and compact sets ,basic properties of compactness ,compactness and finite intersection property	
	3rd	Sequentially and countably compact sets ,Local compactness and one point compactification	
	4th	Compactness in metric spaces ,Equivalence of compactness ,countable compactness and sequential compactness in metric spaces	
J A N	1st	Connected spaces ,Connected spaces on the real line ,Components,Locally connected spaces	Minor Test
	2nd	First and second Countable spaces ,Lindelof's theorem,Seperable spaces ,Second countabilityand searability	
	3rd	Seperation axioms, T ₀ ,T ₁ and T ₂ spaces, Their characterisation and prope	
	4th	Regular and normal spaces ,Urysohn's Lemma ,T ₃ and T ₄ spaces ,complete regularity and normality	

F E B	1st	Product topological spaces ,Projection topological spaces ,Projection mapping	
	2nd	Tychonoff product topology in terms of standard sub base and its characterisations	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name-M.Sc. II
Teacher- Ms. Kiran

COURSE NAME: PARTIAL DIFFERENTIAL EQUATIONS-MAL632
Sem-III

Month	Week	Topic	Assignment/ Test
N O V	3rd	Solution of Partial Differential Equations Transport Equation -Initial value Problem	
	4th	Non -homogeneous Equation,Laplace's Equation - Fundamental solution	
D E C	1st	Mean value formulas ,Properties of Harmonic functions ,Green's function, Energy methods	Assignment
	2nd	Wave Equation -solution by spherical means ,Non -homogeneous equations	
	3rd	Energy methods ,Poisson's formula,Kirchoff's formula	
	4th	D.Alembert's formula ,uniqueness of solution domain of dependence of solution	
J A N	1st	Heat Equation-Fundamental solution,Solution of initial value problem ,Non homogeneous equation	Minor Test
	2nd	Mean value formula , Nonlinear First order PDE - Complete Integrals,Envelopes,Characteristics	
	3rd	Hamilton -Jacobi Equations,Hamilton's ODE ,Hopf-Lax formula,Weak sol	
	4th	Representation of solutions- Seperation of variables,Similarity solutions	
F E B	1st	Fourier and Laplace Transform ,Hopf-Cole transform	
	2nd	Hodograph and Legendre Transforms,Potential functions	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name-M.Sc. II
Teacher- Mr. Mandeep

COURSE NAME: MECHANICS OF SOLIDS-I-MAL633
Sem-III

Month	Week	Topic	Assignment/ Test
N O V	3rd	Cartesian Tensor: Coordinate transformation,Cartesian Tensor of different order ,Sum or difference and product of two tensors,Contraction theorem,Kroneckor tensor,alternate tensor	

	4th	Scalar invariant of second order tensor, Quotient law	
D E C	1st	symmetric and skew symmetric tensors, Eigen values & vector of a symmetric second order tensor, gradient, divergence, curl of a tensor field	Assignment
	2nd	Analysis of strain: affine transformations, infinitesimal affine deformation, Geometrical interpretation of the components of strain	
	3rd	Strain quadric of cauchy, principal strains and invariants, General infinitesimal deformation, Saint-Venant's equations of compatibility	
	4th	Analysis of stress: Stress tensor, equations of equilibrium, transformation of coordinates	
J A N	1st	Stress of quadric of cauchy, principal stress and invariants	Minor Test
	2nd	Maximum normal and shear stresses	
	3rd	Equations of elasticity: Generalised Hooke's law, homogenous isotropic r	
	4th	Elastic moduli for isotropic media, equilibrium and dynamic equations for an isotropic elastic solid	
F E B	1st	Strain energy function and its connection with Hooke's law	
	2nd	Beltrami-Michell compatibility equations, Saint-Venant's principle	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

COURSE: COMPUTING LAB II (MATLAB PROGRAMMING & APPLICATIONS)-MAP634

Programme Name-M.Sc. II

Teacher- Mr. Amit

Sem-III

Month	Week	Topic	Assignment/ Test
N O V	3rd	User defined functions and function files: Main features of a function file, saving a function file, using a user defined function, comparison between script files and function files	
	4th	Anonymous and Inline functions, using function handles for passing a fu	
D E C	1st	Using a function name for passing a function into a function, sunfunctions, nested functions	Assignment
	2nd	Polynomials : Value of a polynomial, roots of a polynomial, addition, multiplication and division of polynomial, derivatives of polynomials	
	3rd	Curve fitting with polynomials, the polyfit function, curve fitting with functions other than polynomials	
	4th	Applications in numerical analysis: Solution of an equation with one variable, numerical integration, ordinary differential equations	
J A N	1st	Three dimensional plots : Line plots, mesh and surface plots, plots with special graphics, the view command	Minor Test
	2nd	Symbolic math: Solving algebraic equations, differentiation, integration, solving an ODE	
	3rd	Plotting symbolic expressions, numerical calculations with symbolic expr	

	4th	Numerical methods-Interpolation:Lagrange's interpolation formula, Newton Gregory Forward and backward interpolation formula	
F E B	1st	Solution of a system of linear equations:Gauss Elimination method,Gauss Jordan method	
	2nd	Solution of ordinary differential equations:Euler's method, Euler's Modified method,Runge-Kutta 2nd & 4th order method	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name-M.Sc. II
Teacher- Mrs. Kanta

COURSE NAME: ANALYTIC NUMBER THEORY-MAL635
Sem-III

Month	Week	Topic	Assignment/ Test
N O V	3rd	Primes in certain arithmetical progression, Fermat numbers	
	4th	Mersenne numbers, Approximation of irrational numbers by rationals	
D E C	1st	Hurwitz's theorem, Irrationality of e & π	Assignment
	2nd	System of linear congruences Chinese remainder theorem, Quadratic residues and non-residues	
	3rd	Legendre's Symbol, Gauss Lemma and its applications	
	4th	Quadratic law of reciprocity Jacobi's symbol	
J A N	1st	Riemann Zeta function $\xi(s)$ and its convergence, application in prime numbers	Minor Test
	2nd	$\xi(s)$ as Euler's product, evaluation of $\xi(2)$ and $\xi(2k)$, Dirichlet series with simple properties, Introduction to modular function	
	3rd	Dirichlet series as analytic function & its derivative,Euler's products	
	4th	Euler's summation formula and some elementary asymptotic formula,Average order of the arithmetical functions $d(n)$, $\sigma_a(n)$, $\phi(n)$, $\mu(n)$ and $\Lambda(n)$	
F E B	1st	Partial sums of a Dirichlet product and their application to $\mu(n)$ and $\Lambda(n)$, Chebyshev's functions $\Psi(x)$ and $\psi(x)$ and relation between them	
	2nd	Shapiro's Tauberian theorem and its applications, partial sums of the Mobius function, Selberg's asymptotic formula	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name-M.Sc. II
Teacher- Mr. Amit

COURSE NAME: ADVANCED DISCRETE MATHEMATICS-MAL637
SEM-III

Month	Week	Topic	Assignment/ Test
N O V	3rd	Formal Logic - Statements, Symbolic, Representation and Tautologies, Quantifiers	
	4th	Proposition Logic. Lattices - Lattices as partially ordered sets, Their properties, Lattices as Algebraic systems	

D E C	1st	Some special Lattices, e.g., complete, complemented and Distributive Lattices.	Assignment
	2nd	Sets Some Special Lattices e.g., Bounded, Complemented & Distributive Lattices.	
	3rd	Boolean Algebra - Boolean Algebra as Lattices, Various Boolean Identities,	
	4th	The Switching Algebra example, Join - irreducible elements, Atoms and Minterms, Boolean Forms and Their Equivalence, Minterm Boolean Forms,	
J A N	1st	Sum of Products canonical Forms, Minimization of Boolean Functions, Applications of Boolean Algebra to Switching Theory	Minor Test
	2nd	Graph Theory - Definition of Graphs, Paths, Circuits, Cycles and Subgraphs, Induced Subgraphs, Degree of a vertex, Connectivity,	
	3rd	Planar Graphs and their properties, Euler's Formula for Connected Planar Graph, Complete and Complete Bipartite Graphs	
	4th	Trees, Spanning Trees, Minimal Spanning Trees, Matrix Representation of Graphs	
F E B	1st	Euler's theorem on the Existence of Eulerian Paths and circuits, Directed Graphs, Indegree and outdegree of a vertex,	
	2nd	Weighted undirected Graphs, Strong Connectivity and Warshall's Algorithm, Directed Trees, Search Trees, Tree Traversals.	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

Programme Name- MScII
Teacher- Mr. Mandeep

COURSE :PROGRAMMING WITH MATLAB (PRACTICAL)-MAP634
SEM-III

Month	Week	Topics
N O V	3rd	Program for calculating roots, polynomial value at a point
	4th	Program to find addition, multiplication and division
D E C	1st	Program To find derivative of a polynomial
		Program for solving a non-linear equation
	2nd	Program To find maximum and minimum values of a polynomial
	3rd	Program To calculate numerical integration of function
		Program to fit a polynomial of degree three & plot it
4th		Program for curve fitting with function other than polynomials
J A N	1st	Program to find value of y between points using interpolation
	2nd	Program to find coordinates x, y, z are given as function of parameter t
	3rd	Program To convert temperature from Fahrenheit to Celsius
	4th	Program To solve ODE using Euler's method
F E B	1st	Program to solve the function using Runge Kutta method
	2nd	Program to solve a 1st order ordinary differential equation
	3rd	Revision

Programme Name-BCA I
Teacher- Mrs. Namrata

COURSE: ELEMENTS OF MATHEMATICAL FOUNDATIONS-BCA-PC(L)112
SEM-I

Month	Week	Topic	Assignment/ Test
N O	3rd	Sets, subsets and operations on sets	
	4th	Venn-Diagram of sets, power sets, equivalence relations on sets	
D E C	1st	Partition of a sets, partially ordered sets, boolean algebra	1st Assignment
	2nd	Basic properties of limits, continuous functions and classification of discontinuities	
	3rd	Derivatives of a functions, derivatives of logarithmic, exponential, trigonometric, inverse trigonometrically and hyperbolic functions	
	4th	higher order derivatives	
J A N	1st	Addition , multiplication of matrices, laws of matrix algebra	Minor Test
	2nd	Singular and non singular matrices , inverse and rank of a matrix	
	3rd	Rank of the product of two matrices , system of linear equation	
	4th	Characteristic equations of a square matrix, Cayley Hamilton theorem	
F E B	1st	Eigen values and eigen vectors	2nd Assignment
	2nd	Eigen values and eigen vectors of symmetric and skew-symmetric, hermitian and skew-hermitian	
	3rd	Group Discussion, Revision	
	4th	Doubt session	

DAYANAND COLLEGE, HISAR

Department of Physical Education

Lesson - Plan

Session : 2022 – 23
Subject : Physical Education
Class : B.A I (First Semester)

Month	Subject / Chapter	Exam / Homework
August	<ul style="list-style-type: none">• Introduction to Physical Education .• Meaning, Definition and Scope of Physical Education.• Aim, Objectives and Importance of Physical Education in Modern Society.	Home work
September	<ul style="list-style-type: none">• Health and Hygiene.• Meaning, Definition and Importance of Health.• Meaning and Importance of Personal Hygiene .	Assignment -1
October	<ul style="list-style-type: none">• Introduction to Yoga• Yoga- Meaning, Concept and Historical Development.• Importance of Yoga for Healthy Living• Pranayama Meaning, Types and their benefits.	Assignment-2 Test
November	<ul style="list-style-type: none">• Introduction to Human Anatomy and Physiology.• Meaning and Importance of Human Anatomy and Physiology in Physical Education.• Definitions of Cell, Tissue Organ and System• Structure and Properties/ Characteristics of Cell	Test
December	<ul style="list-style-type: none">• Practice	Speaking
January	<ul style="list-style-type: none">• Exam Revision	Exam

DAYANAND COLLEGE, HISAR

Department of Physical Education

Lesson - Plan

Session : 2022 – 23
Subject : Physical Education
Class : B.A II (Third Semester)

Month	Subject / Chapter	Exam / Homework
August	<ul style="list-style-type: none">• Concept of Safety Education• Meaning, Need and Importance of Safety Education• Sports Injuries : Types, Causes and Meaning	Homework
September	<ul style="list-style-type: none">• General Diseases• Concept of Communicable and Non-Communicable Diseases• Common Diseases	Homework
October	<ul style="list-style-type: none">• Concept of Balanced Diet• Meaning and Importance of Balanced Diet• Components of Balanced Diet and their Sources	Assignment-1 Test
November	<ul style="list-style-type: none">• Anatomy and Physiology of Body System• Circulatory: structure of Heart• Types of Circulation : Systemic Circulation and Pulmonary Circulation	Test
December	<ul style="list-style-type: none">• Practice	Speaking
January	<ul style="list-style-type: none">• Exam Revision	Revision

DAYANAND COLLEGE, HISAR

Department of Physical Education

Lesson - Plan

Session : 2022 – 23
Subject : Physical Education
Class : B.A III (Fifth Semester)

Month	Subject / Chapter	Exam / Homework
August	<ul style="list-style-type: none">• Growth and Development.• Meaning, Definitions and Stages of Growth and Development.• Principles, Factors Influencing Growth and Development.	Homework
September	<ul style="list-style-type: none">• Concept of Sports Organization and Administration• Meaning, Principles and Importance of Organization and Administration in Physical Education and Sports	Homework
October	<ul style="list-style-type: none">• Concept of Posture• Meaning of Good Posture and Importance of Good Posture• Causes of Poor Posture	Assignment – 1 Test
November	<ul style="list-style-type: none">• Anatomy and Physiology• Gross Anatomy of Muscle and Types of Muscles in Human Body• Effects of Exercise on Muscular System• Composition of Human Blood	Test
December	<ul style="list-style-type: none">• Exam Revision	Revision
January	<ul style="list-style-type: none">• Exam	

Lesson Plan w.e.f. 08 November,2021

Name of Institute	Dayanand College, Hisar	
Name of Teacher with Designation	Mandeep Singh Assistant Professor	
Department	Political Science	
Class/Section	B.A. Part 1, 1 st semester	
Paper	<i>POL 101: Indian Constitution</i> <i>Option - I</i>	
Month	Unit/Topic/ chapter covered	Test/ Assignment
November	Indian Constitution-Evolution, Sources and Features, Preamble Fundamental Rights and, Fundamental Duties and Directive Principles of State Policy.	
December	Union Executive.-President, Vice-President Prime Minister, Council of Ministers; State Executive- Governor, Chief Minister and Council of Ministers Union Legislature- Parliament-Composition and Functions; Speaker of Lok Sabha, Amendment Process	Assignment
January,2022	State Legislature-Vidhan Sabha, Vidhan Parishad Panchayati Raj Institutions. History, Basic Features and 73rd and 74th Amendments Judiciary-Supreme Court, High Courts, Judicial Review and Activism.	Assignment Test
February,2022	Redressal and Grievances Institutions; RTI, Lokpal and Lokyaukat	Assignment

Lesson Plan w.e.f. 08November,2021

Name of Institute	Dayanand College, Hisar	
Name of Teacher with	Mandeep Singh	
Designation	Assistant Professor	
Department	Political Science	
Class/Section	B.A. 2 nd , 3 rd semester	
Paper	POL 202: Indian Political Thinker Option- II	
Month	Unit/Topic/ chapter covered	Test/ Assignment
November	Raja Ram Mohan Roy and Swami Dayanand	
December	Swami Vivekanand and Aurbind Ghosh, Lala Lajpat Rai	Assignment
January,2022	Bal Gangadhar Tilak and Dadabhai Naoroji Gopal Krishan Gokhale	Assignment Test
February	Revision	

Lesson Plan w.e.f. 08 November,2021

Name of Institute	Dayanand College, Hisar	
Name of Teacher with	Mandeep Singh	
Designation	Assistant Professor	
Department	Political Science	
Class/Section	B.A. 3 rd , 5 th Sem	
Paper	POL 302 International Relations Option II	
Month	Unit/Topic/ chapter covered	Test/ Assignment
November	Definition, Nature, Scope and Development of the International Relations; and Autonomy Debate regarding International Relations.	
December	Approaches to the Study of International Relations: Idealist, Realist; System and Marxist-Leninist National Power: Definition, Elements & Assessment;	Assignment
January,2022	Limitation of National Power: International Law, International Morality and World Public Opinion Major Concepts: Balance of Power, Collective Security, Environmentalism and Globalisation	Assignment Test
February,2022	Revision	

Lesson Plan w.e.f. 08 November,2021

Name of Institute	Dayanand College, Hisar	
Name of Teacher with Designation	Dr. Ramesh Kumar Assistant Professor	
Department	Political Science	
Class/Section	B.A. Part 1, 1 st semester	
Paper	<i>POL 101: Indian Constitution</i> <i>Option-1</i>	
Month	Unit/Topic/ chapter covered	Test/ Assignment
November	Indian Constitution-Evolution, Sources and Features, Preamble Fundamental Rights and, Fundamental Duties and Directive Principles of State Policy.	
December	Union Executive.-President, Vice-President Prime Minister, Council of Ministers; State Executive- Governor, Chief Minister and Council of Ministers Union Legislature- Parliament-Composition and Functions; Speaker of Lok Sabha, Amendment Process '	Assignment
January,2022	State Legislature-Vidhan Sabha, Vidhan Parishad Panchayati Raj Institutions. History, Basic Features and 73rd and 74th Amendments Judiciary-Supreme Court, High Courts, Judicial Review and Activism.	Assignment Test
February,2022	Redressal and Grievances Institutions; RTI, Lokpal and Lokyaukat	Assignment

Lesson Plan w.e.f. 08 November,2021

Name of Institute		Dayanand College, Hisar	
Name of Teacher with		Dr.Ramesh Kumar	
Designation		Assistant Professor	
Department		Political Science	
Class/Section		B.A. 3 rd , 5 th Sem	
Paper		POL 302 International Relations Option II	
Month	Unit/Topic/ chapter covered	Test/ Assignment	
November	Definition, Nature, Scope and Development of the International Relations; and Autonomy Debate regarding International Relations.		
December	Approaches to the Study of International Relations: Idealist, Realist; System and Marxist-Leninist National Power: Definition, Elements & Assessment;	Assignment	
January,2022	Limitation of National Power: International Law, International Morality and World Public Opinion Major Concepts: Balance of Power, Collective Security, Environmentalism and Globalisation	Assignment Test	
February,2022	Revision		

POLITICAL SCIENCE

B.A 3rd SEM. (2021-2022)

SUB. CODE B.A (202)

Teacher: Priyanka Boss

Month	Topics
November	Raja Ram Mohan Roy: Political,Social, Educational views. Swami Dayanand Saraswati: religious, spiritual,social and political views.
December	Swami Vivekanand. Unit Test and Assignment -1(Swami Dayanand).
January	Aurbindo ghosh: views on Nationalism, Political & International views,concept of new humanism. Lala Lajpat Rai: Simon commission, political,social , financial and educational views.
February	Bal Gangadhar Tilak,Dadabhai Naoroji.Unit test and Assignment -2(lala lajpat rai) Gopalkrishna Gokhale.Revision of whole syllabus.

Subject teacher: Priyanka Boss

Teacher Incharge: Dr. Shammi Nagpal

Political Science

B.A 1st SEM. (2022-2022)

SUB. CODE Pols(101)

Teacher: Priyanka Boss

Month	Topics
November	Indian Constitution -Evolution,sources,feature,Preamble , Fundamental Rights, Fundamental duties,DPSPs.
December	Union Legislature-,Parliament, Composition & function,Speaker of loksabha and vidhan sabha,state legislature,Vidhan Parishad and PRIs.Unit test and Assignment -1(Union legislature)
January	Union Executives-President,Vice President,P.M,Council of Minister,State Executive -Governor,C.M & COM.
February	Judiciary - S.C,H.C & Judicial Activism.Redressel & grievances.Institutions-RTI,LOKPAL,LOKAYUKTA. UNIT TEST AND ASSIGNMENT 2-(SUPREME COURT & HIGH COURT).Revision of whole syllabus.

Subject teacher: Priyanka Boss

Teacher Incharge: Dr. Shammi Nagpal

DAYANAND POST GRADUATE COLLEGE, HISAR

Department of Psychology

Subject Lesson Plan (Nov 2021-Jan 2022)

Name of the Faculty Member	:	Dr.RenuRathee
Designation	:	Associate Professor
Subject	:	Psychology
Class / Semester	:	B.A.-3 rd Semester
Nomenclature of Paper	:	Social Psychology

Month	Class	Topic/ Chapter	Academic Activities	Test Assignment
November 2021	B.A.-3rd Sem.	Introduction; Nature , Subject Matter, Sociometric Method, Socialisation: Nature , Process and agents of socialisation	Distribution of Syllabus.	
December 2021	B.A.-3rd Sem.	Group; Types and Function ;Social Norms: Meaning Characteristics and Formation Leadership: Types ,Function , Theories; Trait, Situations and Interactional	Viva-Voce on Assignment-I Group Discussion	Assignment-I Class Test
December 2021	B.A.-3rd Sem.	Attitudes; Characteristics, Developments and Attitude Change Prejudice: Nature and Development and Stereotypes	Viva-Voce on Assignment-II Group Discussion	Assignment-II Class Test
January 2022	B.A.-3rd Sem.	Prosocial Behaviour; Nature , Determinants Cognitive Model , Aggression: Nature , Determinants	Revision of Syllabus	

Dayanand College, Hisar

Department of Psychology

Lesson Plan Session- 2021-22

Name of the Faculty Member	:	Aruna Kad
Designation	:	Associate Professor
Class / Semester	:	B.A-I : 1 st Semester
Subject	:	Psychology
Nomenclature of Paper	:	Introduction to Psychology

Month	Class	Topic/ Chapter	Academic Activities	Test /Assignment
November,2021	B.A.-1 st Sem.	Psychology: History, Emergence as Science, Subject Matter Methods of Psychology: Experimental, Observation, Survey	Introduction of Subject Distribution of Time-Table & Syllabus.	
December,2021	B.A.-1 st Sem.	Sensory Processes: Visual, Auditory- Structure and Functions of Eye and Ear. Perception: Nature, Perception of form- Figure and Ground, Perceptual Organization, Depth Perception-Cues.	Viva-Voce on Assignment-I Group Discussion	Assignment-I Class Test
January, 2022	B.A.-1 st Sem.	Emotion: Nature, Bodily Changes. Theories of Emotions: James-Lange, Cannon-Bard and Schachter-Singer Motivation: Nature, Biological and Psychological Motives.	Participation of the students in 'Aastha Society' of the Department	
February,2022	B.A.-1 st Sem.	Personality: Nature, Determinants of Personality, Type and Trait Approach. Intelligence: Nature, Theories: Spearman, Thurstone and Cattell.	Activities of Departmental 'Aastha Society' Viva-Voce on Assignment-I Group Discussion	Assignment-II Class Test

(Aruna Kad)
Department of Psychology

DAYANAND POST GRADUATE COLLEGE, HISAR

Department of Psychology

Subject Lesson Plan (Nov 2021-Jan 2022)

Name of the Faculty Member	:	Dr. Sharmila Gunpal
Designation	:	Associate Professor
Subject	:	Psychology
Class / Semester	:	B.A.-5thSemester
Nomenclature of Paper	:	Psychopathology

Month	Class	Topic/ Chapter	Academic Activities	Test Assignment
November 2021	B.A.-5th Sem.	Concept of Normality and Abnormality. Models of Psychopathology: Biological, psychodynamic, Behavior and Cognitive.	Distribution of Syllabus.	
December 2021	B.A.-5th Sem.	Classification of Psychopathology: Need of classification, DSM system. Diagnostic Assessment: Case History, Interview, Projective Techniques	Viva-Voce on Assignment-I Group Discussion	Assignment-I Class Test
December 2021	B.A.-5th Sem.	Anxiety Based Disorders: GAD, OCD and phobic Disorder- symptom and Causes. Substance/Drug Abuse- Cause, Consequences and Rehabilitation.	Viva-Voce on Assignment-II Group Discussion	Assignment-II Class Test
January 2022	B.A.-5th Sem.	Mood Disorder: Unipolar and Bipolar- Symptoms and Causes. Schizophrenia: Nature, Types and Causes	Revision of Syllabus	

संस्कृत –विभाग
दयानन्द कॉलेज ,हिसार

नाम :- सीमा चौधरी
विषय :- संस्कृत
कक्षा :- बी.ए. प्रथम वर्ष
सत्र :- प्रथम

संस्कृत -पाठ-योजना (2021-22)

मास	कक्षा	विषय/अध्याय	परीक्षा/प्रदत्त कार्य
नम्बबर' 21	बी ए प्रथम वर्ष	पाठ्यक्रम परिचय हितोपदेश, (ब्याख्या) व्याकरण : शब्द रूप	प्रदत्त कार्य
दिसम्बर' 21	बी ए प्रथम वर्ष	हितोपदेश, (ब्याख्या) व्याकरण : धातु-रूप	प्रदत्त कार्य
जनवरी' 22	बी ए प्रथम वर्ष	नीतिशतकम् (1-50 श्लोक) व्याकरण : सन्धि	कक्षा परीक्षा
फरवरी' 22	बी ए प्रथम वर्ष	पुनरावृत्ति	

संस्कृत -विभाग

दयानन्द कॉलेज ,हिसार

नाम :- सीमा चौधरी
विषय :- संस्कृत
कक्षा :- बी.ए. द्वितीय वर्ष
सत्र :- तृतीय

संस्कृत -पाठ-योजना (2021-22)

मास	कक्षा	विषय/अध्याय	परीक्षा/प्रदत्त कार्य
नवम्बर' 21	बी ए द्वितीय वर्ष	पाठ्यक्रम परिचय भास-जीवन परिचय पंचरात्रम् : प्रथम अंक व्याकरण: परिभाषिक शब्द	प्रदत्त कार्य
दिसम्बर' 21	बी ए द्वितीय वर्ष	पंचरात्रम् : द्वितीय अंक संस्कृत साहित्य का इतिहास व्याकरण: समास, प्रत्यय	प्रदत्त कार्य
जनवरी' 22	बी ए द्वितीय वर्ष	पंचरात्रम् : तृतीय अंक व्याकरण: प्रत्याहार; पत्र लेखन	कक्षा परीक्षा
फरवरी' 22	बी ए द्वितीय वर्ष	पुनरावृत्ति	

संस्कृत -विभाग
दयानन्द कॉलेज ,हिसार

नाम :- सीमा चौधरी
विषय :- संस्कृत
कक्षा :- बी.ए. तृतीय वर्ष
सत्र :- पंचम

संस्कृत -पाठ-योजना (2021-22)

मास	कक्षा	विषय/अध्याय	परीक्षा/प्रदत्त कार्य
नम्बबर' 21	बी ए तृतीय वर्ष	पाठ्यक्रम परिचय कालिदास का जीवन परिचय अभिज्ञान-शाकुन्तलम् : प्रथम अंक, द्वितीय अंक	प्रदत्त कार्य
दिसम्बर' 21	बी ए तृतीय वर्ष	अभिज्ञान-शाकुन्तलम् : तृतीय अंक संस्कृत साहित्य का इतिहास व्याकरण: कारक-प्रकरण	
जनवरी' 22	बी ए तृतीय वर्ष	अभिज्ञान-शाकुन्तलम् : चतुर्थ अंक, वैदिक संस्कृत साहित्य का इतिहास व्याकरण: अंलकार	कक्षा परीक्षा
फरवरी' 22	बी ए तृतीय वर्ष	पुनरावृति	

संस्कृत -विभाग
दयानन्द कॉलेज ,हिसार

नाम :- सीमा चौधरी
विषय :- संस्कृत
कक्षा :- बी. एस सी द्वितीय वर्ष (ई)
सत्र :- तृतीय

संस्कृत - पाठ-योजना (2021-22)

मास	कक्षा	विषय / अध्याय	परीक्षा / प्रदत्त कार्य
नम्बर्' 21	बी. एस सी द्वितीय वर्ष	पाठ्यक्रम परिचय ईशस्तवः वयं त्वां भजामः धर्मज्ञ रामः व्याकरणः शब्द रूप	प्रदत्त कार्य
दिसम्बर' 21	बी. एस सी द्वितीय वर्ष	साधुव्रतं चर विभीषणस्य विलापः गद्य पाठ परिचय अनुशासनम् सद्वृत्तम्	प्रदत्त कार्य
जनवरी' 22	बी. एस सी द्वितीय वर्ष	बुद्धिर्यस्यबलं तस्य नीलवर्णः श्रुगालः शशकस्य चातुर्यम् व्याकरणः सन्धि	कक्षा परीक्षा
फरवरी' 22	बी. एस सी द्वितीय वर्ष	पुनरावृत्ति	

संस्कृत-विभाग

दयानन्द कॉलेज, हिसार

नाम- डॉ बबलू शर्मा

वर्ग- A₁, A₂, B, C,
D, F

कक्षा- बी.एस.सी. द्वितीय

सामिसत्र- तृतीया (3rd)

विषय- संस्कृत

संस्कृतपाठयोजना- (2021-22)

मास	कक्षा	पाठशीर्षक/व्याकरण	कक्षा परीक्षा/प्रदत्तकार्य
नवम्बर 21	बी.एस.सी. द्वितीय	पद्य पाठपरिचय (1-5)	प्रदत्त कार्य
		1. ईशस्तवः	
		2. वयं त्वां भजामः	
		3. धर्मज्ञः रामः	
		4. साधुव्रतं चरः	
5. विभाषणस्य विलाप।			
दिसम्बर 21		गद्य पाठ - परिचयः	प्रदत्त कार्य

		1. अनुशासनम्	
		2. सद्वृत्तम्	
		3. बुद्धिर्यस्य बलं तस्य	
		व्याकरण- सन्धि	
जनवरी 2022		गद्य पाठ – (4-5)	कक्षा परीक्षा
		4. नीलवर्णः शृगालः	
		5. शशकस्य चातर्यम्	
		6. बुद्धिर्यस्य बलं तस्य	
		व्याकरण – अच – सन्धि (यण् , अयादि, गुण, वृद्धि) लघुत्तरात्मक प्रश्न	
फरवरी 2022		पुनरावृत्ति	

DAYANAND COLLEGE HISAR

Department of Zoology

LESSON PLAN FOR SESSION- 2021-22

ODD SEMESTERS (I, III, V)

Dayanand Post Graduate College, Hisar

Department of Zoology

Lesson plan for session- 2021-22

Name of Teacher: Dr. Urmila
Designation: Assistant Professor
Class: B. Sc. I Medical and Biotechnology (Ist Semester)
Subject: Zoology
Lesson Plan: November 2021 to January 2022

Zoology 101L (Animal Diversity I)

Tentative Dates	Topics
10 November 2021 to 13 November 2021	Phylum Protozoa: General characters, Classification and locomotory organs and mode of locomotion among Protozoans
14 November 2021	Sunday
15 November to 18 November 2021	Phylum Porifera: General characters and Classification and Canal system of Sycon
19 November 2021	Holiday
20 November 2021	Phylum Coelenterata: General characters and Classification
21 November 2021	Sunday
22 November 2021	Phylum Coelenterata: Polymorphism in Coelenterata
23 November to 27 November 2021	Phylum Platyhelminthes: General characters, Classification, Reproduction system, life history of <i>Taenia</i>
28 November 2021	Sunday
29 November to 04 December 2021	Phylum Nematelminthes: General characters, Classification, Reproductive system and life history of <i>Ascaris</i>
05 December 2021	Sunday
06-11 December 2021	Phylum Annelida: General characters and Classification, Metamerism Class test Class Assignment
12 December 2021	Sunday
13-15 December 2021	Phylum Arthropoda: General characters and Classification, Vision in Arthropoda, Metamorphosis in insects
16-18 December 2021	Phylum Mollusca: General characters and Classification, Torsion in Gastropoda
19 December 2021	Sunday
20 December 2021	Doubt class

Dr. Vivek Srivastava
Prof. Incharge
Department of Zoology

Teacher's Signature

Zoology 102 (Animal Diversity II)

Tentative Dates	Topics
21-24 December 2021	Phylum Echinodermata: General characters and Classification and Water-vascular system in Asteroidea
25 December 2021	Holiday
26 December 2021	Sunday
27 December To 29 December 2022	Subphylum Urochordata: Classification, Theories of origin of Chordata, Phylogeny of Protochordata
30 December To 01 January 2022	Subphylum Cephalochordata: General characters and Classification and affinities
02 January 2022	Sunday
03-05 January 2022	Superclass Agnatha: Class Cyclostomata: characters, classification and affinities
05-08 January 2022	Class Chondrichthyes: Characters and classification
9 January 2022	Sunday
10-12 January 2022	Class Osteichthyes: Characters and classification and Osmoregulation in Pisces
13-15 January 2022	Class Amphibia: Characters, classification and parental care in Amphibians Class test Class Assignment
16 January 2022	Sunday
17-22 January 2022	Class Reptilia: Characters and classification, poisonous and non-poisonous snakes, Poisonous apparatus and biting mechanism in snakes
23 January 2021	Sunday
24-25 January 2022	Class Aves: Characters, Classification
26 January 2022	Holiday
27 January 2022	Class Aves: Flight adaptation in Birds
28-29 January 2022	Class Mammalia: Characters Classification and Origin of Mammals
30 January 2022	Sunday
31 January 2022	Doubt class

Dr. Vivek Srivastava
Prof. Incharge
Department of Zoology

Teacher's Signature

Dayanand Post Graduate College, Hisar

Department of Zoology

LESSON PLAN FOR SESSION- 2021-22

Name of Assistant Professor: Mr. Sachin & Ms. Himani
Class: B. Sc. II Medical and Biotechnology (3rd Semester)
Subject: Zoology (Paper I & Paper II)
Lesson Plan: Nov. 2021 to Jan. 2022

ZOOLOGY 301 L (PHYSIOLOGY AND BIOCHEMISTRY-I)

Date	Topic
10 Nov. - 13 Nov.	Structure & Classification of Neuron, Graded Potential
14 Nov.	Sunday
15 Nov. - 18 Nov.	Origin of Action Potential, Propagation of Nerve Impulse
19 Nov.	Holiday
20 Nov.	Nerve Impulse Conduction Through Axo-Dendritic synapse
21 Nov.	Sunday
22 Nov.- 23 Nov.	Ultrastructure of Skeletal Muscle & Myofibrillar Filaments, Molecular & Chemical basis of Muscle Contraction
24 Nov. - 27 Nov.	Physiology of digestion, Absorption
28 Nov.	Sunday
29 Nov. - 04 Dec.	Composition of Blood, Structure of Heart & Cardiac Cycle
05 Dec	Sunday
06 Dec. - 08 Dec.	Pulmonary Ventilation & Respiratory Volume
09 Dec. - 11 Dec.	Transport of Oxygen & Carbon dioxide, Haldane & Bohr Effect
12 Dec.	Sunday
13 Dec.	Structure of Nephron
14 Dec. - 18 Dec.	Physiology of urine formation, Counter Current Mechanism

19 Dec.	Sunday
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ZOOLOGY 302 L (PHYSIOLOGY AND BIOCHEMISTRY-II)

DATE	TOPIC
20 Dec. - 21 Dec.	Spermatogenesis and Spermiogenesis
22 Dec. - 23 Dec	Oogenesis and its Hormonal Control
24 Dec.	Menstrual cycle
25 Dec.	Holiday
26 Dec.	Sunday
27 Dec. - 01 Jan.	Structure And Function of Parathyroid, Pancreas, Adrenal Gland
02 Jan.	Sunday
03 Jan. - 04 Jan.	Glycolysis
05 Jan. - 06 Jan.	Kreb's Cycle, Pentose Phosphate Pathway
07 Jan. - 08 Jan.	Glycogen Metabolism
09 Jan.	Sunday
10 Jan.	Electron Transport Chain
11 Jan. - 13 Jan.	Biosynthesis of Palmitic Acid
14 Jan. - 15 Jan	Beta oxidation of Palmitic Acid
16 Jan.	Sunday
17 Jan. - 19 Jan.	Protein Metabolism
20 Jan. - 22 Jan.	Introduction of Enzymes Properties and Classification of Enzymes
23 Jan. - 25 Jan.	Mechanism of Action of Enzyme Factors affecting Enzyme Activity
26 Jan.	Holiday

27 Jan. - 29 Jan.	Energy Kinetics of Enzymes Regulation of Enzyme activity
30 Jan.	Sunday
31 Jan.	Doubt Class

Assignment & Unit Tests– upto 10th Dec., 2021 and upto 10th Jan., 2022.

Dr. Vivek Srivastava

Head of Department

Mr. Sachin

Ms. Himani

Assistant Professor

Dayanand College, Hisar

Department of Zoology

Lesson Plan for Odd Semester (Nov. 2021 to Jan. 2022)

Name of Teacher: Dr. Meenakshi Gupta

Class: B.Sc. IIIrd Year, 5th Sem. Section: Medical (A1) Subject : Zoology

Nomenclature & Paper Code: Applied Zoology-I, ZOO 501L (Paper I)

Applied Zoology-II, ZOO 502L (Paper II)

Tentative Dates	Topics
10 Nov. to 13 Nov. 2021	General Introduction of Syllabus
	Host and It's Types
14 Nov. 2021	Sunday
15 Nov. to 18 Nov. 2021	Parasitism
19 Nov. 2021	Holiday
20 Nov. 2021	Parasitism, Symbiosis
21 Nov. 2021	Sunday
22 Nov. to 27 Nov. 2021	Commensalism and Zoonosis and Revision
28 Nov. 2021	Sunday
29 Nov. to 04 Dec. 2021	Prevention and control of Tuberculosis
	Prevention & Control of Typhoid
	Reservoir and revision

05 Dec. 2021	Sunday
06 Dec. to 11 Dec. 2021	Brief account of <i>Rickettsia</i>
	Brief account of <i>Borrelia</i>
	Brief account of <i>Treponema</i>
	Unit Test I and Assignment I
12 Dec. 2021	Sunday
13 Dec. to 18 Dec. 2021	Life Cycle & Pathogenicity of <i>Plasmodium vivax</i>
	Doubt Session
19 Dec. 2021	Sunday

Tentative Dates	Topics
20 Dec. to 24 Dec. 2021	Life Cycle & Pathogenicity of <i>Entamoeba histolytica</i> , <i>Wucherraria bancrofti</i> and Doubt Session
25 Dec. 2021	Holiday
26 Dec. 2021	Sunday
27 Dec. to 01 Jan. 2022	Life Cycle & Pathogenicity of <i>Trypanosoma gambiense</i> , <i>Ancylostoma duodenale</i>
02 Jan. 2022	Sunday
03 Jan. to 08 Jan. 2022	General Introduction regarding Syllabus
	Biology, Control & Damage Caused by <i>Helicoverpa armigera</i> , <i>Pyrilla perpusilla</i> , <i>Papillio demoleus</i> , <i>Collosobruchus chinensis</i> , <i>Sitophilus oryzae</i> , <i>Tribolium castaneum</i>
9 Jan. 2022	Sunday
10 Jan. to 15 Jan. 2022	Cattle Farming: Breeds of Dairy Cattle, Artificial Insemination, Induction of Early Puberty, Estrous Synchronization, Cross Breeding
	Visit to Cattle Farm
	Unit Test II and Assignment II
16 Jan. 2022	Sunday
17 Jan. to 22 Jan. 2022	Medical Importance & Control of <i>Pediculus humanus corporis</i> , <i>Anopheles</i> , <i>Culex</i> & <i>Aedes</i> , <i>Xenopsylla cheopsis</i> and Doubt Session Breeds of Poultry Farming and Cross Breeds of

	Fowls
23 Jan. 2021	Sunday
24 Jan. to 25 Jan. 2022	Management of Poultry Breed Stock & Broilers, Processing & Preservation of Eggs,
26 Jan. 2022	Holiday
27 Jan. to 29 Jan. 2022	General Introduction of Aquaculture, Genetic Improvement of Aquaculture Industry, Induced Breeding of Carps
30 Jan. 2022	Sunday
31 Jan. 2022	Introduction and Transportation of Fish Seeds

Dr. Vivek Srivastava
Head of Department

Dr. Meenakshi Gupta
Assistant Professor

पाठ - योजना

सहायक प्रोफेसर : डॉ. निर्मला

सत्र : 2021 - 22

विषय : हिन्दी

कक्षा : बी.ए. प्रथम (प्रथम सेमेस्टर) अनुभाग : बी, एफ, जी

बी.ए. तृतीय (पंचम सेमेस्टर) अनुभाग : जी

बी.ए. प्रथम वर्ष, प्रथम सेमेस्टर:-

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□□□□□□□□	□□. □. □□□□□□ □□□□ (□□□□□□ □□□□□□□□)	<ul style="list-style-type: none">मीराबाई : जीवन परिचयमीराबाई : साहित्यिक विशेषताएंमीराबाई : सप्रसंग व्याख्याबिहारीलाल : जीवन परिचयबिहारीलाल : साहित्यिक विशेषताएंबिहारीलाल : सप्रसंग व्याख्याघनानंद : जीवन परिचयघनानंद : साहित्यिक विशेषताएंघनानंद : सप्रसंग व्याख्यारसखान : जीवन परिचय	□□□□□□□□

		<ul style="list-style-type: none"> • रसखान : साहित्यिक विशेषताएं • रसखान : सप्रसंग व्याख्या 	
□□□□□	□□.□.□□□□□ □□□□ (□□□□□ □□□□□□□□)	<ul style="list-style-type: none"> • हिंदी साहित्य के इतिहास लेखन की परम्परा • आदिकाल का नामकरण • हिंदी साहित्य : काल विभाजन • आदिकाल की परिस्थितियां • आदिकालीन साहित्य : प्रमुख रचनाएं एवं रचनाकार • रासो काव्य परम्परा: परिचय • रासो काव्य की प्रवृत्तियां • रासो काव्य की प्रामाणिकता अप्रामाणिकता 	□□□□□□□
□□□□□	□□.□.□□□□□ □□□□ (□□□□□ □□□□□□□□)	<ul style="list-style-type: none"> • काव्य की परिभाषा काव्य तत्त्वों की विवेचना • रस : स्वरूप और अंग • रस के भेद • अलंकार विवेचन • अलंकार : भेद एवं उदाहरण • छंद परिचय • छंद : भेद एवं प्रयोग • शब्द शक्तियां : परिचय • शब्द शक्तियां : प्रकार एवं भेद • काव्य गुण • अभ्यास 	□□□□□□□

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□□□□ □□	□□.□. □□□□□ □□□□ (□□□□ □□□□□□□□)	<ul style="list-style-type: none"> • सच्चिदानंद हीरानंद वात्साययन अज्ञेय : 	

		<p>जीवन परिचय</p> <ul style="list-style-type: none"> • अज्ञेय : साहित्यिक विशेषताएं • अज्ञेय : सप्रसंग व्याख्या • धर्मवीर भारती : जीवन परिचय • धर्मवीर भारती : साहित्यिक विशेषताएं • धर्मवीर भारती : सप्रसंग व्याख्या 	
□□□ □□□□	□□. □. □□□□□ □□□□ (□□□□ □□□□□□□□)	<ul style="list-style-type: none"> • श्री नरेश मेहता : जीवन परिचय • श्री नरेश मेहता : साहित्यिक विशेषताएं • श्री नरेश मेहता : सप्रसंग व्याख्या • नागार्जुन : जीवन परिचय • नागार्जुन : साहित्यिक विशेषताएं • नागार्जुन : सप्रसंग व्याख्या • रघुवीर सहाय : जीवन परिचय • रघुवीर सहाय : साहित्यिक विशेषताएं • रघुवीर सहाय : सप्रसंग व्याख्या • कुंवर नारायण : जीवन परिचय • कुंवर नारायण : साहित्यिक विशेषताएं • कुंवर नारायण : सप्रसंग व्याख्या • लीलाधर जगूड़ी : जीवन परिचय • लीलाधर जगूड़ी : साहित्यिक विशेषताएं • लीलाधर जगूड़ी : सप्रसंग व्याख्या 	□□□□□ □□□
□□□ □□	□□. □. □□□□□ □□□□ (□□□□ □□□□□□□□)	<ul style="list-style-type: none"> • भारतेन्दु युगीन हिन्दी कविता की प्रवृत्तियां • द्विवेदीयुगीन हिन्दी कविता की प्रवृत्तियां • छायावाद • प्रगतिवाद • प्रयोगवाद • नयी कविता • समकालीन कविता 	□□□□□ □□
□□□ □□	□□. □. □□□□□ □□□□ (□□□□ □□□□□□□□)	<ul style="list-style-type: none"> • पत्र - लेखन : स्वरूप और उसके भेद • संक्षेपण • पल्लवन • अभ्यास 	□□□□□□

पाठ – योजना

सहायक प्रोफेसर : डॉ. सुरेन्द्र बिश्रोई

सत्र : 2021 – 22

विषय : हिन्दी

कक्षा : बी.ए. प्रथम (प्रथम सेमेस्टर) अनुभाग : ए

बी.ए. तृतीय (पंचम सेमेस्टर) अनुभाग : बी, एफ, एच

बी.ए. प्रथम वर्ष, प्रथम सेमेस्टर:-

मास	कक्षा	विषय / अध्याय	परीक्षा / गृहकार्य
नवम्बर	बी. ए. प्रथम वर्ष (प्रथम सेमेस्टर)	<ul style="list-style-type: none">कबीरदास : जीवन परिचयकबीरदास : साहित्यिक विशेषताएंकबीरदास : सप्रसंग व्याख्यासूरदास : साहित्यिक विशेषताएंसूरदास : साहित्यिक विशेषताएंसूरदास : सप्रसंग व्याख्यातुसलीदास : जीवन परिचयतुसलीदास : साहित्यिक विशेषताएंतुसलीदास : सप्रसंग व्याख्या	
दिसम्बर	बी. ए. प्रथम वर्ष (प्रथम सेमेस्टर)	<ul style="list-style-type: none">मीराबाई : जीवन परिचयमीराबाई : साहित्यिक विशेषताएंमीराबाई : सप्रसंग व्याख्याबिहारीलाल : जीवन परिचयबिहारीलाल : साहित्यिक विशेषताएंबिहारीलाल : सप्रसंग व्याख्याघनानंद : जीवन परिचयघनानंद : साहित्यिक विशेषताएंघनानंद : सप्रसंग व्याख्यारसखान : जीवन परिचयरसखान : साहित्यिक विशेषताएं	गृहकार्य

		<ul style="list-style-type: none"> • रसखान : सप्रसंग व्याख्या 	
जनवरी	बी. ए. प्रथम वर्ष (प्रथम सेमेस्टर)	<ul style="list-style-type: none"> • हिंदी साहित्य के इतिहास लेखन की परम्परा • आदिकाल का नामकरण • हिंदी साहित्य : काल विभाजन • आदिकाल की परिस्थितियां • आदिकालीन साहित्य : प्रमुख रचनाएं एवं रचनाकार • रासो काव्य परम्परा: परिचय • रासो काव्य की प्रवृत्तियां • रासो काव्य की प्रामाणिकता अप्रामाणिकता 	परीक्षा
फरवरी	बी. ए. प्रथम वर्ष (प्रथम सेमेस्टर)	<ul style="list-style-type: none"> • काव्य की परिभाषा काव्य तत्त्वों की विवेचना • रस : स्वरूप और अंग • रस के भेद • अलंकार विवेचन • अलंकार : भेद एवं उदाहरण • छंद परिचय • छंद : भेद एवं प्रयोग • शब्द शक्तियां : परिचय • शब्द शक्तियां : प्रकार एवं भेद • काव्य गुण • अभ्यास 	मौखिकी

कक्षा – बी.ए. तृतीय वर्ष, पंचम सेमेस्टर:-

मास	कक्षा	विषय / अध्याय	परीक्षा / गृहकार्य
नवम्बर	बी. ए. तृतीय वर्ष (पंचम सेमेस्टर)	<ul style="list-style-type: none"> • सच्चिदानंद हीरानंद वात्सायन अज्ञेय : जीवन परिचय • अज्ञेय : साहित्यिक विशेषताएं • अज्ञेय : सप्रसंग व्याख्या 	

		<ul style="list-style-type: none"> • धर्मवीर भारती : जीवन परिचय • धर्मवीर भारती : साहित्यिक विशेषताएं • धर्मवीर भारती : सप्रसंग व्याख्या 	
दिसम्बर	बी. ए. तृतीय वर्ष (पंचम सेमेस्टर)	<ul style="list-style-type: none"> • श्री नरेश मेहता : जीवन परिचय • श्री नरेश मेहता : साहित्यिक विशेषताएं • श्री नरेश मेहता : सप्रसंग व्याख्या • नागार्जुन : जीवन परिचय • नागार्जुन : साहित्यिक विशेषताएं • नागार्जुन : सप्रसंग व्याख्या • रघुवीर सहाय : जीवन परिचय • रघुवीर सहाय : साहित्यिक विशेषताएं • रघुवीर सहाय : सप्रसंग व्याख्या • कुंवर नारायण : जीवन परिचय • कुंवर नारायण : साहित्यिक विशेषताएं • कुंवर नारायण : सप्रसंग व्याख्या • लीलाधर जगूड़ी : जीवन परिचय • लीलाधर जगूड़ी : साहित्यिक विशेषताएं • लीलाधर जगूड़ी : सप्रसंग व्याख्या 	गृहकार्य
जनवरी	बी. ए. तृतीय वर्ष (पंचम सेमेस्टर)	<ul style="list-style-type: none"> • भारतेन्दु युगीन हिन्दी कविता की प्रवृत्तियां • द्विवेदीयुगीन हिन्दी कविता की प्रवृत्तियां • छायावाद • प्रगतिवाद • प्रयोगवाद • नयी कविता • समकालीन कविता 	परीक्षा
फरवरी	बी. ए. तृतीय वर्ष (पंचम सेमेस्टर)	<ul style="list-style-type: none"> • पत्र – लेखन : स्वरूप और उसके भेद • संक्षेपण • पल्लवन • अभ्यास 	मौखिकी

डॉ. संगीता शर्मा

पाठ - योजना

सत्र : 2021-22

विषय : हिन्दी

कक्षा : बी.ए. द्वितीय वर्ष (तृतीय सेमेस्टर) अनुभाग : डी, ई, आई
बी.ए. तृतीय (पंचम सेमेस्टर) अनुभाग : आई

बी.ए. द्वितीय वर्ष (तृतीय सेमेस्टर)

मास	कक्षा	विषय/अध्याय	परीक्षा/गृहकार्य
नवम्बर	बी.ए. द्वितीय वर्ष (तृतीय सेमेस्टर)	अयोध्या सिंह उपाध्याय 'हरिऔध' मैथिलीशरण गुप्त, जयशंकर - जीवन परिचय सप्रसंग व्याख्या प्र.उ.- आलोचनात्मक, लघुतरात्मक, वस्तुनिष्ठ	गृहकार्य
दिसम्बर	बी.ए. द्वितीय वर्ष (तृतीय सेमेस्टर)	सूर्यकान्त त्रिपाठी निराला, महादेवी वर्मा, रामधारी सिंह दिनकर, भारतभूषण अग्रवाल -जीवनपरिचय सप्रसंग व्याख्या प्र.उ.- आलोचनात्मक, लघुतरात्मक, वस्तुनिष्ठ	गृहकार्य

जनवरी	बी.ए. द्वितीय वर्ष (तृतीय सेमेस्टर)	हिन्दी साहित्य का रीतिकाल- रीतिकाल का नामकरण रीतिकाल की परिस्थितियाँ रीतिकालीन काव्य की विशेषताएँ रीतिसिद्ध, रीतिबद्ध व रीतिमुक्त काव्य की विशेषताएँ प्रयोजनमूलक हिन्दी : हिन्दीकम्प्यूटिंग और अनुवाद कम्प्यूटर : स्वरूप और महत्व ई-मेल : प्रेषण ग्रहण इंटरनेट : स्वरूप और उपयोगिता मशीनी अनुवाद अनुवाद : परिभाषा और स्वरूप	परीक्षा
फरवरी	बी.ए. द्वितीय वर्ष तृतीय सेमेस्टर		अभ्यास

बी.ए. तृतीय (पंचम सेमेस्टर)

मास	कक्षा	विषय / अध्याय	परीक्षा / गृहकार्य
नवम्बर	बी. ए. तृतीय वर्ष (पंचम सेमेस्टर)	<ul style="list-style-type: none"> सच्चिदानंद हीरानंद वात्साययन अज्ञेय : जीवन परिचय अज्ञेय : साहित्यिक विशेषताएं अज्ञेय : सप्रसंग व्याख्या धर्मवीर भारती : जीवन परिचय धर्मवीर भारती : साहित्यिक विशेषताएं धर्मवीर भारती : सप्रसंग व्याख्या 	
दिसम्बर	बी. ए. तृतीय वर्ष (पंचम सेमेस्टर)	<ul style="list-style-type: none"> श्री नरेश मेहता : जीवन परिचय श्री नरेश मेहता : साहित्यिक विशेषताएं श्री नरेश मेहता : सप्रसंग व्याख्या नागार्जुन : जीवन परिचय 	गृहकार्य

		<ul style="list-style-type: none"> • नागार्जुन : साहित्यिक विशेषताएं • नागार्जुन : सप्रसंग व्याख्या • रघुवीर सहाय : जीवन परिचय • रघुवीर सहाय : साहित्यिक विशेषताएं • रघुवीर सहाय : सप्रसंग व्याख्या • कुंवर नारायण : जीवन परिचय • कुंवर नारायण : साहित्यिक विशेषताएं • कुंवर नारायण : सप्रसंग व्याख्या • लीलाधर जगूड़ी : जीवन परिचय • लीलाधर जगूड़ी : साहित्यिक विशेषताएं • लीलाधर जगूड़ी : सप्रसंग व्याख्या 	
जनवरी	बी. ए. तृतीय वर्ष (पंचम सेमेस्टर)	<ul style="list-style-type: none"> • भारतेन्दु युगीन हिन्दी कविता की प्रवृत्तियां • द्विवेदीयुगीन हिन्दी कविता की प्रवृत्तियां • छायावाद • प्रगतिवाद • प्रयोगवाद • नयी कविता • समकालीन कविता 	परीक्षा
फरवरी	बी. ए. तृतीय वर्ष (पंचम सेमेस्टर)	<ul style="list-style-type: none"> • पत्र - लेखन : स्वरूप और उसके भेद • संक्षेपण • पल्लवन • अभ्यास 	मौखिकी

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□□□□ : 2021 - 22

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Department of English, Dayanand College, Hisar
Lesson Plan Aug-2022 to Dec 2022(2022-23) Dr.Valaria Sethi

Class: BA Hons(5th Sem) Paper: ENGH 301 Modern British Literature

Week	Topics Covered
3rd Week August 2022	Introduction of syllabus and general discussion
4th Week August 2022	Introduction of W.B. Yeats and "The Lake Isle of Innisfree" Text
5th Week August 2022	"The Lake Isle of Innisfree" Question/Answer and Reference to Context
1st Week September 2022	"The Stolen Child" Text
2nd Week September 2022	"The Stolen Child" Question/Answer and Reference to Context, Assignment I
3rd Week September 2022	" When You are Old" Text,Question/Answer and Reference to Context
4th Week September 2022	"A Prayer for My Daughter" Text
5th Week September 2022	"A Prayer for My Daughter" Question/Answer and Reference to Context
1st Week October 2022	"What Then?" Text
2nd Week October 2022	"What Then?" Question/Answer and Reference to Context
3rd Week October 2022	"The Wise Old Wicked Man" Text
4th Week October 2022	"The Wise Old Wicked Man" Question/Answer and Reference to Context
1st Week November 2022	Group Discussion and Students's Presentation, Assignment II
2nd Week November 2022	Introduction of G. B. Shaw's Saint Joan, Unit Test
3rd Week November 2022	Text of Saint Joan
4th Week November 2022	Text of Saint Joan
5th Week November 2022	Text of Saint Joan
1st Week December 2022	Reference to Context of Saint Joan
2nd Week December 2022	Question/Answer of Saint Joan

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Lesson Plan Aug-2022to Dec 2022(2022-23)

Class BA III (5th Semester)

Paper : English (Compulsory)

Week	Syllabus Planned
3rd Week August 2022	Syllabus and Introduction to Novel (Kanthapura)
4th Week August 2022	Novel and Its Forms, Glossary
5th Week August 2022	1st chapter with short questions
1st Week September 2022	2nd chapter with short questions
2nd Week September 2022	3rd, 4th chapters with short questions
3rd Week September 2022	5th, 6th chapters with short questions
4th Week September 2022	7th , 8th chapters with short questions
5th Week September 2022	9th, 10th chapters with short questions
1st Week October 2022	11th,12th chapters with short questions, Assignment I
2nd Week October 2022	13th,14th chapters with short questions
3rd Week October 2022	15th, 16th chapters with short questions
4th Week October 2022	17th, 18th chapters with short questions
1st Week November 2022	19th chapters with short questions, Assignment II
2ndWeek November 2022	long Question,Unit Test
3rd Week November 2022	Reference to the Context
4th Week November 2022	Comprehension Passages,Essay Writing
5th Week November 2022	Types of Sentences, Transitional Phrases
1st Week December 2022	Transcription with Stress, Intonation
2nd Week December 2022	Comprehension Passages, Essaay Writing

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. Geeta Rani

Designation: Associate Professor of English

Class: B.A. II (English Honours) (1-6)

Paper: ENGH 201: Literature in English (1750-1830)

Lesson Plan B.A.II (English Honours): (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	B.A. II (English Honours)	Unit – I William Wordsworth	Class Test
December, 2021	B.A. II (English Honours)	Unit – II S.T Coleridge	Assignment
January, 2022	B.A. II (English Honours)	Unit – III John Keats	Assignment
February, 2022	B.A. II (English Honours)	Unit- IV Major Literary Movements of the Period Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. Geeta Rani

Designation: Associate Professor of English

Class: B.A. II (English Honours) (1-6)

Semester: IIIrd

Paper: ENGH 202 : Literature's in English (1750-1830)

Lesson Plan B.A.II (English Honours): (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	B.A. II (English Honours)	Unit – I The Vicar of Wakefield	Class Test
December, 2021	B.A. II (English Honours)	Unit – II Pride and Prejudice	Assignment
January, 2022	B.A. II (English Honours)	Unit – III Charles Lamb	Assignment
February, 2022	B.A. II (English Honours)	Unit- IV Major Literary works and Writers	Class Test

Dayanand College, Hisar

Dr.Reetu Sardana

Assistant Professor, Department of English,

Lesson Plan
(2021-22) Odd-Semester

BAI Functional English (1st -Sem.)

Months	Topics Covered
November	Introduction of syllabus Articles Parts of speech
November	Nouns: Singular and plural Verbs: linking verbs, transitive and intransitive verbs Agreement of verb & Subject Tenses & their use
December	Tag Questions Transformation Confusion of Adjectives and Adverbs Adverbial use of No, Not and None
January	Definition and scope of linguistics Difference between phonetics and phonology The Speech mechanism Basic concepts of phonetics Assignments Tests
February	Description of the British R.P. speech sounds Revision of syllabus

BA II Functional English (3rd Sem)

Months	Topics Covered -
November	Introduction of syllabus Spotting the errors (Introduction of basic topics of grammar)
November	Idioms Phrases One Word Substitution Words Often Confused Foreign words Synonyms
December	Antonyms Writing Paragraphs Slogan Writing Punctuation
January	Technical Writing – E-mail Memo Notice Agendas Minutes Press Report
February	Note taking Revision of syllabus, Assignments, Test

BA III Functional English (5th Sem)

Months	Topics Covered
November	<p>Introduction of syllabus</p> <p>Poems - On His Blindness, Alexander' Feast, Epistle to Dr. Arbuthnot, Tintern Abbey.</p> <p style="text-align: center;">Explanation with Ques- Ans</p> <p style="text-align: center;">Critical Appreciation</p>
November	<p>Poems – Kubla Khan, Ode to the West Wind, Stanzas Written in Dejection, Ode on Grecian Urn, Ode to a Nightingale, Ulysses</p> <p>Explanation with Question and Answers</p> <p style="text-align: center;">Critical Appreciation</p>
December	<p>Poems – The Lotus Eaters, Tears Idle Tears, My Last Duchess, Rabbi Ben Ezra, The Last, Ride Together, The Scholar Gypsy</p> <p>Explanation with Ques- Ans</p> <p style="text-align: center;">Critical Appreciation</p>
January	<p>Poem- Dover Beach</p> <p style="text-align: center;">Explanation with Ques- Ans</p> <p style="text-align: center;">Critical Appreciation</p> <p style="text-align: center;">Business Letters and Faxes</p> <p style="text-align: center;">Scanning Letters and Faxes</p>
February	<p>Revision of syllabus, Assignments, Test</p>

B.A. II (Section-C)

3rd Semester.

Sr. No.	Month	Topics to be Covered
1.	November 2021	Introduction of the Syllabus & Examination pattern Non-Finites Kinds of Non-Finites To-Infinitives & Bare Infinitive Essay Writing Format
2.	December 2021	The Gerund Practice Exercises of Non-Finites Synonyms and Antonyms One-word Substitutions
3.	January 2022	Prepositions Clauses Prefixes and Suffixes
4.	January 2022	Verb Phrases Verb Patterns Conditionals
5.	February Week 1 February Week 2	Revision Class Test Assignments.

B.Sc. I (Sec-A2)

1st Sem.

Sr. No.	Month	Topics to be Covered
1.	November, 2021	Introduction to Syllabus Explanation of poetries of William Shakespeare "Let me not to the marriage of True Minds" John Donne "Death be not Proud" John Milton "On His Blindness"
2.	December, 2021	John Dryden "Shadwell" Henry Vaughan "The Retreat" Its question & answers English Grammar and Composition
3.	January, 2022	Alexander Pope "Know Then Thyself" Its question & answers William Blake "The Little Black Boy" and its questions, answers William Wordsworth "Three years She grew in Sun and Shower" Assignments and Unit Tests Paragraph writing + Translation (Hindi to English)
4.	February 2022	Percy B. Shelly "England in 1819" Alfred Lord Tennyson "Crossing the Bar" Common Phrasal Verbs + Prepositions + Common Errors in English Practice of translation (English to Hindi)

5.	March 2022	Semester Examination
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DR. SANGEETA
ASSOCIATE PROFESSOR, DEPARTMENT OF ENGLISH
DAYANAND COLLEGE, HISAR
Subject Lesson Plan (2021-22)

Class: B.A1st, 1st Sem.
Section: D and F

(November 2021to February2022)

Month	Topic/Chapter Covered	Test/Assignment
November 2021	Introduction to Syllabus Scheme of Examination Chapter 1-Speech Sounds, Practice work Chapter 2: Choosing Our Universe Vocabulary Exercises, Practice work	
December 2021	Chapter 3: Are Dams Temples of Modern India Vocabulary Exercises, Practice work Chapter 4: The Generation Gap Vocabulary Exercises, Practice work	Assignment
January 2022	Chapter 5: Language and National Identity Vocabulary Exercises, Practice work Chapter 6:Wonded Plants Vocabulary Exercise , Practice work Chapter 7: Playing the English Gentleman Vocabulary Exercises, Practice work	Class Test
February 2022	Chapter 8:Great Books Born out of Great Minds Vocabulary Exercises, Practice work Chapter 9:The Responsibility of Young Men Vocabulary Exercises, Practice work Chapter 10:Bharat Mata Vocabulary Exercises, Practice work Revision and preparation for examination	Assignment Class Test Sessional Examination

Class: B.A. 2nd, 3rd Sem
Section: A and H
Lesson Plan: (November 2021 to February 2022)

Month	Topic/Chapter Covered	Test/Assignment
November 2021	Introduction to Poetry Poetic Forms: Sonnet , Lyric, Ode, Elegy Dramatic Monologue , Free Verse	
December 2021	Poetic Devices: Rhythm and Rhyme Alliteration , Simile , Metaphor Personification , Hyperbole, Allusion Irony, Imagery Poem: Sonnet 18(William Shakespeare) Transcription and Exercise Poem: Know Thyself (Alexander Pope) Transcription and Exercise	Assignment
January 2022	Poem: Elegy Written in a Country Churchyard (Thomas Grey) Transcription and Exercise Poem: The World is Too Much With Us(William Wordsworth) Transcription and Exercise Poem: Ode on a Grecian Urn(John Keats) Transcription and Exercise Poem: My Last Duchess(Robert Browning) Transcription and Exercise	Assignment Class test
February 2022	Poem: When You are Old(W.B. Yeats) Transcription and Exercise Poem: Where the Mind is Without Fear(Rabindranath Tagore) Transcription and Exercise Poem: The Bangle Sellers(Sarojini Naidu) Transcription and Exercise Poem: Another Women(Imtiaz Dharkar) Transcription and Exercise Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. ShammiNagpal

Designation: Associate Professor of English

Class: B.A. I (English Honours) (1-6)

Paper: ENGH 101: Literature in English (1550-1660)

Lesson Plan B.A.I (English Honours): (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	B.A. I (English Honours)	Unit – I William Shakespeare: Comedy of Errors	
December, 2021	B.A. I (English Honours)	Unit – II Marlowe: Doctor Faustus	Assignment
January, 2022	B.A. I (English Honours)	Unit – III Francis Bacon: Essays ‘Of Truth’, ‘Of Friendship’	Assignment
February, 2022	B.A. I (English Honours)	Unit- IV Literary terms and Major Literary Movements of the Period Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. ShammiNagpal

Designation: Associate Professor of English

Class: B.A. II (English Honours) (1-6)

Semester: IIIrd

Paper: ENGH 203: Grammar and Contemporary English Usage

Lesson Plan B.A.II (English Honours): (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	B.A. II (English Honours)	Unit – I Essay	
December, 2021	B.A. II (English Honours)	Unit – II Comprehension	Assignment
January, 2022	B.A. II (English Honours)	Unit – III Parts of Speech Verbs Adverbs, adverbial particles and adverb phrases	Assignment
February, 2022	B.A. II (English Honours)	Unit- IV Word Order Adjective equivalents Prepositions Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member:Dr. Valaria Sethi

Designation: Associate Professor of English

Class: B.A. III (English Honours) (1-6)

Paper: Modern British Literature

Lesson Plan B.A.III: (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	B.A. III	W. B Yeats	-
December, 2021	B.A. III	W. B Yeats	Assignment
January, 2022	B.A. III	W. B Yeats Question/Saint Joan	Class Test
February, 2022	B.A. III	Saint Joan	-

DR. MINAKSHI CHAUHAN
ASSISTANT PROFESSOR, DEPARTMENT OF ENGLISH
DAYANAND COLLEGE, HISAR
Subject Lesson Plan (2021-22)

Class: B.A1st, 1st Sem
Section: D

(November 2021to February2022)

Month	Topic/Chapter Covered	Test/Assignment
November 2021	Introduction to Syllabus Scheme of Examination Chapter 1-Speech Sounds, Practice work Chapter 2: Choosing Our Universe Vocabulary Exercises, Practice work	
December 2021	Chapter 3: Are Dams Temples of Modern India Vocabulary Exercises, Practice work Chapter 4: The Generation Gap Vocabulary Exercises, Practice work Chapter 5: Language and National Identity Vocabulary Exercises, Practice work	Assignment Class Test
January 2022	Chapter 6: Wounded Plants Vocabulary Exercise , Practice work Chapter 7: Playing the English Gentleman Vocabulary Exercises, Practice work	
February 2022	Chapter 8: Great Books Born out of Great Minds Vocabulary Exercises, Practice work Chapter 9: The Responsibility of Young Men Vocabulary Exercises, Practice work Chapter 10: Bharat Mata	Assignment Class Test
March 2022	Vocabulary Exercises, Practice work Revision and preparation for examination	Sessional Examination

Class: B.A.3, 5th Sem

Section: D,E

Lesson Plan: (November 2021 to March2022)

Month	Topic/Chapter Covered	Test/Assignment
November2021	Introduction to syllabus Scheme of Examination Introduction to the Novel Novel and its Forms Introduction to Kanthapura Chapter 1 Practice work Chapter2 Practice work	
December 2021	Chapter 3 Practice work Chapter 4 Practice work Chapter 5 Practice work Chapter 6 Practice work Chapter 7 Practice work Chapter 8 Practice work	Assignment
January 2022	Chapter 9 Practice work Chapter 10 Practice work Chapter 11 Practice work, Chapter 12 Practice work Chapter 14 Practice work	Assignment Class test
February 2022	Chapter15 Practice work Chapter 16 Practice work Chapter 17 Practice work, Chapter 18 Practice work Chapter 19 Practice Work	Class Test

March 2022	Revision and preparation for examination	Sessional Examination
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Class: B.A 1 Hon's **Section:** D

Subject: English

English Lesson Plan: (November 2021 to March 2022)

Month	Class	Topic/Chapter Covered	Test/Assignment
November 2021	B.A 1	Introduction to syllabus Scheme of Examination Introduction to the Life history of Sydney His important works and his Sonnets from Astrophel and Stella : Sonnet (1) Practice work Sonnet (VI) Practice work Sonnet (VII) Practice work Sonnet (X) Practice work Sonnet (XXXI) Practice work Sonnet (XXXIX) Practice work Group Discussion on Sydney's sonnets Question Answers Discussed	
December 2021		Introduction to the life history of William Shakespeare Sonnet (XVIII) Practice work Sonnet (XXX) Practice work Sonnet (LXVI) Practice work	Assignment Class Test

		<p>Sonnet (LXXVI) Practice work</p> <p>Sonnet (CXVI) Practice work</p> <p>Sonnet (CXXX) Practice work</p> <p>Group Discussion on Shakespeare' sonnets Question Answers Discussed</p>	
Jan 2022		<p>Introduction to the life history of Donne and his sonnets:</p> <p>The Good Morrow Practice work</p> <p>The Sun Rising Practice work</p> <p>Velediction of Weeping Practice work</p> <p>Holy Sonnet: Since She Whom I Loved Practice work</p> <p>Group Discussion on Donne's sonnets Practice work Question Answer Discussed</p>	<p>Assignment</p> <p>Class test</p>
February 2022		<p>Major literary works of the period (1550-1660) by major writers as discussed in History of English literature by W.J.Long Practice work</p> <p>Group Discussion Question Answers discussed</p>	<p>Sessional Examination</p>
March 2022		Revision and preparation for examination	

Dr. Minakshi Chauhan

Dr. Yashu Rai Tayal
Associate Professor, Department of English,
Dayanand College, Hisar
Subject Lesson Plan (November 2021-22)

B A III Hons. Paper XII (Indian Writing in English –I) Semester V

Months	Topics Covered
November	Unit :- I Nissim Ezekiel : “ Enterprise, “ Philosophy, Assignments
December	Unit:- II Back ground, “ Poet, Lover, Birdwatcher, “ “Poem of the Separation”, Assignments
January	Unit III :- Hayavadana - Reading of text
February	Unit IV:- Hayavadana - Reading of text Discussion of Ques- Ans Tests
March	Revision of syllabus.

B A III Hons. Paper XIII (Modern World Literature–I) Semester V

Months	Topics Covered
November	<p>Unit:-I</p> <p>Essays-</p> <ol style="list-style-type: none"> 1. “Modernism and Post-Modernism”. 2. “Feminist Criticism “. 3. Assignments
December	<p>Unit: - II</p> <p>Essays-</p> <ol style="list-style-type: none"> 1. “On the Abolition of English Department” 2. “Minute on Indian Education”. 3. “Interrogating Post- Colonialism” <p align="center">Assignments</p>
January	<p>Unit III: - Poetry-</p> <ol style="list-style-type: none"> 1. “ The Burning of Books “ 2. “ The End of the Beginning “ 3. “ A Far Cry from Africa <p align="center">Assignments</p>
February	<p>Unit III: - Poetry: -</p> <ol style="list-style-type: none"> 4. “Tonight, I Can Write “. 5. “Journey to the Interior “. 6. “A Prison Evening”. <p align="center">Tests</p>
March	Revision of syllabus.

Dayanand College Hisar

Department of English

Teacher's Name: Manjit Singh

Class: - B.A II 3rd Sem. (2021-22)

(SECTION A and I)

Subject: English (Composition)

Sr. No.	Month	Topics to be Covered
1.	November 2021	Introduction of the Syllabus & Examination pattern Non-Finites Kinds of Non -Finites To-Infinitives & Bare Infinitive Essay Writing Format
2.	December 2021	The Gerund Practice Exercises of Non-Finites Synonyms and Antonyms One-word Substitutions
3.	January 2022	Prepositions Clauses Prefixes and Suffixes
4.	January 2022	Verb Phrases Verb Patterns Conditionals
5.	February Week 1 February Week 2	Revision Class Test Assignments.

Dayanand College, Hisar

Lesson Plan

2021-2022

Teacher's Name: Manjit Singh

Class: - B A II 3rd Semester (SECTION C and D)

Subject: - English Compulsory (TEXT)

16 October 2021 to 20 February 2022

Sr. No.	Month	Topics to be Covered	Activities & Methods
1.	November 2021	Introduction of the syllabus and Examination Pattern Literary Terms and Devices Sonnet XVIII: Introduction, summary & Analysis of the Poem} Know Then Thyself: Introduction, summary & Analysis of the Poem.	Bilingual Method , Interactive Method, were followed. Structural Approach was followed Class Discussion initiated.
2.	December 2021	Elegy Written in a Country Churchyard: Introduction, summary & Analysis of the Poem} The World Is Too Much: Introduction, summary & Analysis of the Poem}	Bilingual Method , Interactive Method, were followed. Structural Approach was followed

3.	December Week 3	Ode on a Grecian Urn: Introduction, summary & Analysis of the Poem	Bilingual method and historical analysis of the poem were adopted.
4.	January 2022 Week 1 and 2.	My Last Duchess: Introduction, summary & Analysis of the Poem} When You Are Old: Introduction, summary & Analysis of the Poem} Where the Mind Is without Fear: Introduction, summary & Analysis of the Poem}	Bilingual Method , Interactive Method, were followed. Structural Approach was followed
5.	January (Week 3 & 4)	The Bangle Seller: Introduction, summary & Analysis of the Poem} Another Woman: Introduction, summary & Analysis of the Poem}	Bilingual Method , Interactive Method, were followed. Structural Approach was followed
6.	February (Week - 1 February (Week 2 and 3	Revision Class Test House Examination	Assignments and Book review
7.	March	Semester Examination	

DN COLLEGE, HISAR

Name of the Assistant/Associate Professor: Manjit Singh
Class and Section: B.A 5th Semester. (SECTION I)
Subject: English (Grammar)
Paper: English (Compulsory)

Sr. No.	Month	Topics to be Covered
1.	November, 2021	Introduction of the Syllabus Sentence and its types. Conversion of Sentences.
2.	December, 2021	Introducing Intonation: Tonic Groups and Tonic syllable.
3.	January, 2022	Transitional Words. Composition: paragraph writing. Unit Test and Assignment;
4.	February and March, 2022	Revision Semester Examination

BSC I 1ST SEMESTER (English)**(SECTION D)****Assistant Professor: Manjit Singh**

Sr. No.	Month	Topics to be Covered
1.	November 2021	Introduction to Syllabus Explanation of poetries of William Shakespeare "Let me not to the marriage of True Minds"
2.	December 2021	John Donne "Death be not Proud" John Milton "On His Blindness" Its question & answers English Grammar and Composition
3.	January 2022	John Dryden "Shadwell" Henry Vaughan "The Retreat" Alexander Pope "Know Then Thyself" Its question & answers Assignments and Unit Tests Paragraph writing + Translation (Hindi to English)
4.	February 2022	William Blake "The Little Black Boy" and its questions, answers William Wordsworth "Three years she grew in Sun and Shower" Percy B. Shelly "England in 1819" Alfred Lord Tennyson "Crossing the Bar" Common Phrasal Verbs + Prepositions + Common Errors in English Practice of translation (English to Hindi)
5.	Feb 2022 Second Week From 21 February	Revision Semester Examination

DN COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd-Semester)

Name of the Assistant Professor: Madhur Vedant
Class and Section: B.A 5 th Semester, Sections A&E
Subject: English (Grammar)
Paper: English (Compulsory)

Sr. No.	Month	Topics to be Covered
1.	November, 2021	Introduction of the Syllabus Sentence and its types. Conversion of Sentences.
2.	December, 2021	Introducing Intonation: Tonic Groups and Tonic syllable.
3.	January, 2022	Transitional Words. Composition: paragraph writing. Unit Test and Assignment;
4.	February and March, 2022	Revision Semester Examination

DAYANAND COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd Semester)

Name of the Assistant Professor: Madhur Vedant
Class and Section: B.A 1st Semester, Sections A&B
Subject: English (Text)
Paper: (English Compulsory)

Sr. No.	Month	Topics to be Covered	Activities/Methods
1.	November, 2021	Introduction of the Syllabus Speech Sounds (Practice Sessions) Choosing Our Universe (Introduction, Summary & Analysis of the Chapter) Are Dams The temple of Modern India? (Introduction, summary & Analysis of the Chapter)	Bilingual Method, Interactive Method, were followed.
2.	December, 2021	The Generation Gap (Introduction, Summary & Analysis of the Chapter) Wounded Plants (Introduction, Summary & Analysis of the Chapter) Language and National Identity (Introduction, Summary & Analysis of the Chapter)	Bilingual Method, Interactive Method, were followed. Class test and Assignment

3.	January, 2022	<p>Playing the English Gentleman (Introduction, Summary & Analysis of the Chapter)</p> <p>Great Books Born out of Great Minds (Introduction, Summary & Analysis of the Chapter)</p> <p>The Responsibility of young Men (Introduction, Summary & Analysis of the Chapter)</p> <p>Bharat Mata (Introduction, Summary & Analysis of the Chapter)</p>	<p>Bilingual Method, Interactive Method, were followed.</p> <p>Class Test and Assignment</p>
4.	February and March, 2022	<p>Revision</p> <p>Semester Examination</p>	

DAYANAND COLLEGE, HISAR

Lesson Plan

2021-2022(Odd-Semester)

Name of the Assistant Professor:Madhur Vedant
Class and Section: B.Sc.1 st Semester (Section B and F)
Subject: English (Compulsory)
Paper: CXL 101

Sr. No.	Month	Topics to be Covered
1.	November, 2021	Introduction to Syllabus Explanation of poetries of William Shakespeare "Let me not to the marriage of True Minds" John Donne "Death be not Proud" John Milton "On His Blindness"
2.	December, 2021	John Dryden "Shadwell" Henry Vaughan "The Retreat" Its question & answers English Grammar and Composition
3.	January, 2022	Alexander Pope "Know Then Thyself" Its question & answers William Blake "The Little Black Boy" and its questions, answers William Wordsworth "Three years She grew in Sun and Shower" Assignments and Unit Tests Paragraph writing + Translation (Hindi to English)
4.	February 2022	Percy B. Shelly "England in 1819" Alfred Lord Tennyson "Crossing the Bar" Common Phrasal Verbs + Prepositions + Common Errors in English Practice of translation (English to Hindi)

5.	March 2022	Semester Examination
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DAYANAND COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd Semester)

Name of the Assistant Professor: Ms. Aditi
Class and Section: B.A 1st Semester (Section-C,E)
Subject: English (Text)
Paper: (English Compulsory)

Month	Topics to be Covered
November,2021	Introduction of the Syllabus Speech Sounds (Practice Sessions) Choosing Our Universe (Introduction, Summary & Analysis of the Chapter) Are Dams The temple of Modern India? (Introduction, summary & Analysis of the Chapter)
December,2021	The Generation Gap (Introduction, Summary & Analysis of the Chapter) Wounded Plants (Introduction, Summary & Analysis of the Chapter) Language and National Identity (Introduction, Summary & Analysis of the Chapter)

January,2022	Playing the English Gentleman (Introduction, Summary & Analysis of the Chapter) Great Books Born out of Great Minds (Introduction, Summary & Analysis of the Chapter) The Responsibility of young Men (Introduction, Summary & Analysis of the Chapter) Bharat Mata (Introduction, Summary & Analysis of the Chapter)
February and March,2022	Revision Semester Examination

Class and Section: B.A 1st Semester (Section- C,E,F)
Subject: English (Grammar)
Paper: English (Compulsory)

Month	Topics to be Covered
November,2021	Introduction of the Syllabus Tense: - Present Tense Past Tense Future Tense Nouns Pronouns
December,2021	Adjective Adverbs Verbs

	Interjection Articles
January,2022	Subject verb Agreement Preposition Conjunctions Paragraph Writing
February and March,2022	Revision Semester Examination

Class and Section: B.A 5thSemester (Section-D)
Subject: English (Grammar)
Paper: English (Compulsory)

Sr. No.	Month	Topics to be Covered
1.	November,2021	Introduction of the Syllabus Sentence and its types. Conversion of Sentences.
2.	December,2021	Introducing Intonation: Tonic Groups and Tonic syllable.
3.	January,2022	Transitional Words. Composition: paragraph writing.

		Unit Test and Assignment;
4.	February and March,2022	Revision Semester Examination

DAYANAND COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd Semester)

Name of the Assistant Professor: Ms. Reena
Class and Section: B.A 1 st Semester (Section-I)
Subject: English (Text)
Paper: (English Compulsory)

Sr. No.	Month	Topics to be Covered
1.	November,2021	Introduction of the Syllabus Speech Sounds (Practice Sessions) Choosing Our Universe (Introduction, Summary & Analysis of the Chapter) Are Dams The temple of Modern India? (Introduction, summary & Analysis of the Chapter)
2.	December,2021	The Generation Gap (Introduction, Summary & Analysis of the Chapter) Wounded Plants (Introduction, Summary & Analysis of the Chapter) Language and National Identity (Introduction, Summary &

		Analysis of the Chapter)
3.	January,2022	<p>Playing the English Gentleman (Introduction, Summary & Analysis of the Chapter)</p> <p>Great Books Born out of Great Minds (Introduction, Summary & Analysis of the Chapter)</p> <p>The Responsibility of young Men (Introduction, Summary & Analysis of the Chapter)</p> <p>Bharat Mata (Introduction, Summary & Analysis of the Chapter)</p>
4.	February and March,2022	<p>Revision</p> <p>Semester Examination</p>

Class:-B A II 3rd Semester (SECTION-B,E,H,D)

Subject:-English Compulsory (Grammar)

Sr. No.	Month	Topics to be Covered
1.	November 2021	Introduction of the Syllabus & Examination pattern Non-Finites Kind of Non-Finites To-Infinitives & Bare Infinitive Essay Writing Format
2.	December 2021	The Gerund Practice Exercises of Non-Finites Synonyms and Antonyms One-word Substitutions
3.	January 2022	Prepositions Clauses Prefixes and Suffixes
4.	January 2022	Verb Phrases Verb Patterns Conditionals
5.	February Week 1 February Week 2	Revision Class Test Assignments.

Class:-B A II 3rd Semester (SECTION-D)

Subject:-English Compulsory (TEXT)

Sr. No.	Month	Topics to be Covered	Activities & Methods
1.	November 2021	Introduction of the syllabus and Examination Pattern Literary Terms and Devices Sonnet XVIII: Introduction, summary & Analysis of the Poem Know Then Thyself: Introduction, summary & Analysis of the Poem.	Bilingual Method, Interactive Method, were followed. Structural Approach was followed Class Discussion initiated.
2.	December 2021	Elegy Written in a Country Churchyard: Introduction, summary & Analysis of the Poem The World Is Too Much: Introduction, summary & Analysis of the Poem	Bilingual Method, Interactive Method, were followed. Structural Approach was followed

3.	December	Ode on a Grecian Urn: Introduction, summary & Analysis of the Poem	Bilingual method and historical analysis of the poem were adopted.
4.	January 2022	My Last Duchess: Introduction, summary & Analysis of the Poem} When You Are Old: Introduction, summary & Analysis of the Poem} Where the Mind Is without Fear: Introduction, summary & Analysis of the Poem}	Bilingual Method, Interactive Method, were followed. Structural Approach was followed
5.	January	The Bangle Seller: Introduction, summary & Analysis of the Poem} Another Woman: Introduction, summary & Analysis of the Poem}	Bilingual Method, Interactive Method, were followed. Structural Approach was followed
6.	February	Revision Class Test House Examination	Assignments and Book review
7.	March	Semester Examination	

Class BA II (4th Semester) (SEC- D)
Sub.- ENGLISH Text

Month	Topics Covered
April 2022	Introduction of Syllabus, Transcription with stress
	The Envoy: Text and Questions ,Vocabulary and Reference to Context.
	The Swan Song: Text and Questions Vocabulary and Reference to Context
	Assignments and revision of covered syllabus along with class tests.
May 2022	The Monkey's Paw: Text and Questions
	The Monkey's Paw: Vocabulary and Reference to Context, Assignment II
	Before Breakfast: Text and Questions, Vocabulary and Reference to Context.
	The Sleepwalkers: Text and Questions,Vocabulary and Reference to Context
May and June 2022	Revision

DAYANAND POST GRADUATE COLLEGE, HISAR

Department of Psychology

Subject Lesson Plan (Nov 2021-Jan 2022)

Name of the Faculty Member : Dr.Renu Rathee
Designation : Associate Professor
Subject : Psychology
Class / Semester : B.A.-3rdSemester
Nomenclature of Paper : Social Psychology

Month	Class	Topic/ Chapter	Academic Activities	Test Assignment
November 2021	B.A.-3rd Sem.	Introduction; Nature , Subject Matter, Sociometric Method, Socialisation: Nature , Process and agents of socialisation	Distribution of Syllabus.	
December 2021	B.A.-3rd Sem.	Group; Types and Function ;Social Norms: Meaning Characteristics and Formation Leadership: Types ,Function , Theories; Trait, Situations and Interactional	Viva-Voce on Assignment-I Group Discussion	Assignment-I Class Test
December 2021	B.A.-3rd Sem.	Attitudes; Characteristics, Developments and Attitude Change Prejudice: Nature and Development and Stereotypes	Viva-Voce on Assignment-II Group Discussion	Assignment-II Class Test
January 2022	B.A.-3rd Sem.	Prosocial Behaviour; Nature , Determinants Cognitive Model , Aggression: Nature , Determinants	Revision of Syllabus	

DAYANAND COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd Semester)

Name of the Assistant Professor: Sukhwinder Kaur
Class and Section: B.A 1 st Semester, Section G
Subject: English (Text)
Paper: (English Compulsory)

Sr. No.	Month	Topics to be Covered	Activities/Methods
1.	November, 2021	Introduction of the Syllabus Speech Sounds (Practice Sessions) Choosing Our Universe (Introduction, Summary & Analysis of the Chapter) Are Dams The temple of Modern India? (Introduction, summary & Analysis of the Chapter)	Bilingual Method, Interactive Method, were followed.
2.	December, 2021	The Generation Gap (Introduction, Summary & Analysis of the Chapter) Wounded Plants (Introduction, Summary & Analysis of the Chapter) Language and National Identity (Introduction, Summary & Analysis of the Chapter)	Bilingual Method, Interactive Method, were followed. Class test and Assignment

3.	January, 2022	<p>Playing the English Gentleman (Introduction, Summary & Analysis of the Chapter)</p> <p>Great Books Born out of Great Minds (Introduction, Summary & Analysis of the Chapter)</p> <p>The Responsibility of young Men (Introduction, Summary & Analysis of the Chapter)</p> <p>Bharat Mata (Introduction, Summary & Analysis of the Chapter)</p>	<p>Bilingual Method, Interactive Method, were followed.</p> <p>Class Test and Assignment</p>
4.	February and March, 2022	<p>Revision</p> <p>Semester Examination</p>	

DAYANAND COLLEGE, HISAR

Lesson Plan

2021-2022(Odd-Semester)

Name of the Assistant Professor: Sukhwinder Kaur
Class and Section: B.Sc.1stSemester (Section A1 and E)
Subject: English (Compulsory)
Paper: CXL 101

Sr. No.	Month	Topics to be Covered
1.	November, 2021	Introduction to Syllabus Explanation of poetries of William Shakespeare "Let me not to the marriage of True Minds" John Donne "Death be not Proud" John Milton "On His Blindness"
2.	December, 2021	John Dryden "Shadwell" Henry Vaughan "The Retreat" Its question & answers English Grammar and Composition
3.	January, 2022	Alexander Pope "Know Then Thyself" Its question & answers William Blake "The Little Black Boy" and its questions, answers William Wordsworth "Three years She grew in Sun and Shower" Assignments and Unit Tests Paragraph writing + Translation (Hindi to English)
4.	February 2022	Percy B. Shelly "England in 1819" Alfred Lord Tennyson "Crossing the Bar" Common Phrasal Verbs + Prepositions + Common Errors in English Practice of translation (English to Hindi)
5.	March 2022	Semester Examination

Dayanand College, Hisar

Lesson Plan 2021-2022

Teacher's Name: Sukhwinder Kaur

Class:-B A II 3rd Semester (SECTION B)

Subject:-English Compulsory (TEXT)

16 October 2021 to 20 February 2022

Sr. No.	Month	Topics to be Covered	Activities & Methods
1.	November 2021	Introduction of the syllabus and Examination Pattern Literary Terms and Devices Sonnet XVIII: Introduction, summary & Analysis of the Poem Know Thyself: Introduction, summary & Analysis of the Poem.	Bilingual Method, Interactive Method, were followed. Structural Approach was followed Class Discussion initiated.
2.	December 2021	Elegy Written in a Country Churchyard: Introduction, summary & Analysis of the Poem The World Is Too Much: Introduction, summary & Analysis of the Poem	Bilingual Method, Interactive Method, were followed. Structural Approach was followed
3.	December Week 3	Ode on a Grecian Urn: Introduction, summary & Analysis of the Poem	Bilingual method and historical analysis of the poem were adopted.

4.	January 2022 Week 1 and 2.	<p>MyLastDuchess: Introduction,summary & Analysis of thePoem}</p> <p>When You Are Old:Introduction,summary&Analysisofthe Poem}</p> <p>WheretheMindIswithout Fear:Introduction,summary&Analysisofthe Poem}</p>	<p>BilingualMethod,Interactive Method,werefollowed.</p> <p>StructuralApproachwasf ollowed</p>
5.	January(Week3&4)	<p>The Bangle Seller: Introduction,summary& Analysisofthe Poem}</p> <p>AnotherWoman:Introduction,s ummary & Analysis of thePoem}</p>	<p>BilingualMethod,Interactive Method,werefollowed.</p> <p>StructuralApproachwasf ollowed</p>
6.	February (Week - 1 February (Week2 and 3	<p>Revision</p> <p>ClassTest</p> <p>HouseExamination</p>	AssignmentsandBookreview
7.	March	SemesterExamination	

DN COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd-Semester)

Name of the Assistant Professor: Sukhwinder Kaur
Class and Section: B.A 1 st Semester Section A and D
Subject: English (Compulsory)
Paper: English (Composition)

Sr. No.	Month	Topics to be Covered
1.	November, 2021	Introduction of the Syllabus Tense: - Present Tense Past Tense Future Tense Nouns Pronouns
2.	December, 2021	Adjective Adverbs Verbs Interjection Articles
3.	January, 2022	Subject verb Agreement Preposition Conjunctions Paragraph Writing
4.	February and March, 2022	Revision Semester Examination

DAYANAND COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd Semester)

Name of the Assistant Professor: Mr. SUMIT
Class and Section: B.A 1 st Semester (Section-H)
Subject: English (Text)
Paper: (English Compulsory)

Sr. No.	Month	Topics to be Covered	Activities/Methods
1.	November,2021	Introduction of the Syllabus Speech Sounds (Practice Sessions) Choosing Our Universe (Introduction, Summary & Analysis of the Chapter) Are Dams The temple of Modern India? (Introduction, summary & Analysis of the Chapter)	Bilingual Method, Interactive Method, were followed.
2.	December,2021	The Generation Gap (Introduction, Summary & Analysis of the Chapter) Wounded Plants (Introduction, Summary & Analysis of the Chapter) Language and National Identity (Introduction, Summary & Analysis of the Chapter)	Bilingual Method, Interactive Method, were followed. Class test and Assignment

3.	January,2022	<p>Playing the English Gentleman (Introduction, Summary & Analysis of the Chapter)</p> <p>Great Books Born out of Great Minds (Introduction, Summary & Analysis of the Chapter)</p> <p>The Responsibility of young Men (Introduction, Summary & Analysis of the Chapter)</p> <p>Bharat Mata (Introduction, Summary & Analysis of the Chapter)</p>	<p>Bilingual Method, Interactive Method, were followed.</p> <p>Class Test and Assignment</p>
4.	February and March,2022	<p>Revision</p> <p>Semester Examination</p>	

DN COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd-Semester)

Name of the Assistant Professor: Mr. Sumit
Class and Section: B.A 1st Semester (Section- B, H, I)
Subject: English (Grammar)
Paper: English (Compulsory)

Sr. No.	Month	Topics to be Covered
1.	November,2021	Introduction of the Syllabus Tense: - Present Tense Past Tense Future Tense Nouns Pronouns
2.	December,2021	Adjective Adverbs Verbs Interjection Articles
3.	January,2022	Subject verb Agreement Preposition Conjunctions Paragraph Writing

4.	February and March,2022	Revision Semester Examination
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DN COLLEGE, HISAR

DAYANAND COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd-Semester)

Name of the Assistant Professor: Mr. SUMIT
Class and Section: B.A 5st Semester (Section-H)
Subject: English (Text)
Paper: (English Compulsory)

Sr. No.	Month	Topics to be Covered	Activities/Methods
1.	November, 2021	Introduction of the Syllabus Introduction to Novel Novel and its Forms	Bilingual Method, Interactive Method, were followed.

2.	December,2021	<p>Raja Rao's <i>Kanthapura</i>: An Introduction and Author's forward.</p> <p>Chapter 1 to 10</p> <p>(Summary & Analysis of the Chapter)</p>	<p>Bilingual Method, Interactive Method, were followed.</p> <p>Class test and Assignment.</p>
3.	January,2022	<p>Chapter 11 to 19.</p> <p>(Summary & Analysis of the Chapter)</p> <p>Short and long questions and answers of the novel.</p> <p>Word Accent and its Grammatical Function</p> <p>Weak forms in English Pronunciation</p>	<p>Bilingual Method, Interactive Method, were followed.</p> <p>Class Test and Assignment.</p>
4.	February and March,2022	<p>Revision</p> <p>Semester Examination</p>	

DN COLLEGE, HISAR

Lesson Plan

2021-2022 (Odd-Semester)

Name of the Assistant Professor: Mr. SUMIT
Class and Section: B.A 5th Semester (Section-G)
Subject: English (Grammar)
Paper: English (Compulsory)

Sr. No.	Month	Topics to be Covered
1.	November, 2021	Introduction of the Syllabus Sentence and its types. Conversion of Sentences.
2.	December, 2021	Introducing Intonation: Tonic Groups and Tonic syllable.
3.	January, 2022	Transitional Words. Composition: paragraph writing. Unit Test and Assignment;

4.	February and March,2022	Revision Semester Examination
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DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Vijay Singh

Designation: Assist. Professor of English

Class: B.A Vth Sem. **Section:** G & I (1-6)

Subject: English

Lesson Plan (English): (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	B.A. Vth Sem.	Introduction to syllabus, Scheme of Examination, Programme Outcomes & Course Outcomes Introduction to the Novelist Characters in the Novel Introduction to the Novel: Kanthapura	
December, 2021	B.A. Vth Sem.	Brief Summary of the Novel Novel & its Forms Literary Terms Reading of Chapters (1-5)	
January, 2022	B.A. Vth Sem.	Reading of Chapters (6-15) Reference to the Context with Explanation	Assignment
February, 2022	B.A. Vth Sem.	Reading of Chapters(16-19) Discussion on short & long questions Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Vijay Singh

Designation: Assist. Professor of English

Class: B.A Vth Sem. **Section:** B (1-3)& C (4-6)

Subject: English

Lesson Plan (English): (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	B.A. Vth Sem.	Introduction to Syllabus & Scheme of Examination Introduction to Phonetics & Phonemic Transcription Word Accent & its Grammatical Function	
December, 2021	B.A. Vth Sem.	Weak Forms in English Pronunciation Introducing Intonation: Tone Groups & Tonic Syllable	
January, 2022	B.A. Vth Sem.	Sentence & its types Transitional Words & Phrases Conversion of Sentences Clauses	Assignment
February, 2022	B.A. Vth Sem.	Conditional Sentences Composition: Developing Hints into a Paragraph and a Story Revision and preparation for examination	

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Vijay Singh

Designation: Assist. Professor of English

Class: B.A IIIrd Sem. **Section:** E (1-6)

Subject: English

Lesson Plan (English): (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	B.A. III rd Sem.	Introduction to syllabus, Scheme of Examination, Programme Outcomes & Course Outcomes Important Poetic Forms & Poetic Devices	
December, 2021	B.A. III rd Sem.	Sonnet XVIII Know Thyself Elegy Written in a Country Churchyard	
January, 2022	B.A. III rd Sem.	The world is too much with us Ode on a Grecian Urn My Last Duchess When You are Old Where the mind is without Fear	Assignment
February, 2022	B.A. III rd Sem.	The Bangle Sellers Another Woman Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. Geeta Rani

Designation: Associate Professor of English

Class: M.A. (Previous) English (1-6)

Semester: Ist

Paper: Literature in English: Fiction V

Lesson Plan M.A. (Previous) English: (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	M.A. Previous	Unit – I Pride and Prejudice	Class Test
December, 2021	M.A. Previous	Unit – II The Scarlet Letter	Assignment
January, 2022	M.A. Previous	Unit – III Aspects of the Novel	Assignment
February, 2022	M.A. Previous	Unit- IV Portrait of an artist as a young man Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. Geeta Rani

Designation: Associate Professor of English

Class: M.A. (Final) English (1-6)

Semester: IIIrd

Paper: MAENG 302 American Literature

Lesson Plan M.A. (Final) English: (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	M.A. Final	Unit – I Walt Whitman	Class Test
December, 2021	M.A. Final	Unit – II Emily Dickinson	Assignment
January, 2022	M.A. Final	Unit – III The Adventures of Huckleberry Finn	Assignment
February, 2022	M.A. Final	Unit- IV The Portrait of a Lady Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. ShammiNagpal

Designation: Associate Professor of English

Class: M.A. (Previous) English (1-6)

Semester: Ist

Paper: Literature in English: 1550 – 1660 (Part-I)

Lesson Plan M.A. (Previous) English: (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	M.A. Previous	Unit – I Philip Sidney: Sonnets from Astrophel and Stella	
December, 2021	M.A. Previous	Unit – II Christopher Marlowe: Doctor Faustus	Assignment
January, 2022	M.A. Previous	Unit – III John Milton: Paradise Lost, Book I	Assignment
February, 2022	M.A. Previous	Unit- IV William Shakespeare: Twelfth Night Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. ShammiNagpal

Designation: Associate Professor of English

Class: M.A. (Final) English (1-6)

Semester: IIIrd

Paper: Literature and Gender (Part-I) (Option-I)

Lesson Plan M.A. (Final) English: (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	M.A. Final	Unit – I Charlotte Bronte: Jane Eyre	
December, 2021	M.A. Final	Unit – II Virginia Woolf: To the Lighthouse	Assignment
January, 2022	M.A. Final	Unit – III Virginia Woolf: A Room of One's Own	Assignment
February, 2022	M.A. Final	Unit- IV Doris Lessing: The Golden Notebook Revision and preparation for examination	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. Valaria Sethi

Designation: Associate Professor of English

Class: MA Final (1-6)

Paper: English Language

Lesson Plan MA Final (English Language): (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	MA Final	Speech Mechanism & Organs of Speech Phonemics Symbols & Transcription	Assignment
December, 2021	MA Final	Description of Sounds/ Allophone, Syllable Intonation	Assignment
January, 2022	MA Final	Evolution of English Language	-
February, 2022	MA Final	Old, Middle, Modern English Periods Word Formation Process	Class Test

DAYANAND COLLEGE, HISAR

DEPARTMENT OF ENGLISH

Name of Faculty Member: Dr. Valaria Sethi

Designation: Associate Professor of English

Class: M.A. (Previous) English (1-3)

Paper: 103 Literature in English (1798-1914) Part(I)

Lesson Plan M.A. (Previous) English: (November 2021 to February 2022)

Month	Class	Topic/ Chapter	Test Assignment
November, 2021	M.A. Previous	The Mill on the Floss	-
December, 2021	M.A. Previous	The Mill on the Floss	Assignment
January, 2022	M.A. Previous	Oliver Twist	-
February, 2022	M.A. Previous	Oliver Twist	Class Test

M A I Course IV:- Literature in English: 1914-2000 (Semester 1)

Months	Topics Covered -
November	Unit I :- T.S. Eliot 1. The Waste Land:- 2. The Burial of the Dead 3. A Game of Chess 4. The Fire Sermon 5. Death by Water 6. What the Thunder Said
December	Unit II:- E.M. Forster A Passage to India Reading of text Discussion of Ques- Ans Assignment
January	Unit III:- Philip Larkin : No Road ‘ , Poetry of Departures”, Going, Going” , Deceptions” , Next Please” , Reasons for Attendance “ , Wedding Wind “ , Church Going” , The Old Fools “ , Ambulances”, Whitsun Weddings Assignment
February	Unit :- IV Lucky Jim Reading of text Discussion of Ques- Ans Tests
March	Revision of syllabus

M A II Course XIII: - Indian Writing in English (Part-I) III sem

Months	Topics Covered
November	Unit I :- Sri Aurobindo : Savitri, Book IV Reading of text Discussion of Ques- Ans Assignments
December	Unit II:- Kamala Das : “The Freaks”, “My Grandmother’ s House”, “A Hot Noon in Malabar”, “The Sunshine Cat”, “The Invitation”, “The Looking Glass” Assignments
January	Unit III :- Jayant Mahapatra : “The Logic”, “A Missing Person”, “The Whorehouse in a Calcutta Street”, “Indian Summer”, “Lost” “Glass” Assignments
February	Unit :- IV Mulk Raj Anand : Coolie Reading of text Discussion of Ques- Ans Tests
March	Revision of syllabus.