1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

The college emphasizes on providing quality education and ensures effective curriculum delivery. The institute pursues the curriculum provided by the affiliating university i.e. MDU, Rohtak and aims at holistic development of students. Faculty members from the college have been nominated as members of Board of Studies and worked in curriculum forming committees of the university. The curriculum taught inculcates human values in students and sensitizes them towards environmental and gender issues. The institution ensures effective curriculum delivery through a well-planned system.

ACADEMIC CALENDER

- It is provided by the affiliating university at the commencement of every session.
- The college streamlines its academic process by preparing its own schedule of activities accordingly.

ASSESSMENT OF ATTAINMENT OF LEARNING OBJECTIVES

- Formative assessment is done to assess the level of learning of the students.
- Extra classes are conducted for slow learners.
- Students prepare assignments and give presentations.
- Internal assessment is done on the basis of tests and assignments.
- Final assessment is done through university examinations.

EXTRA CURRICULAR ACTIVITIES

- Seminars and Extension Lectures for students.
- Awareness regarding health and hygiene for girl students.
- **Diwali Mela, Falguni Utsav, Mehendi Competition** etc. are organized for overall development of students.
- **Quiz, declamation, debate** etc. are organized for improving the vocational skills of students.
- Various sports activities are organized for building comradeship and leadership qualities among students.
- **Annual Prize Distribution and Convocation** are organized for the motivation and encouragement of students.
- **Earn While You Learn** program for the financial aid and upliftment of students.
- **Tree plantation** is organized for campus beautification and carbon negative campaign.
- **Traffic and Nature Interpretation Centre** organized awareness campaign regarding the same.
- **Yoga Day** is celebrated on 21 June every year.
- **Constitution Day** is celebrated on 26 November every year.

- **Memorandum Days** including Republic Day (26 January), Martyrdom Day (23 March), Independence Day (15 August), Haryana Heroes' Martyrdom Day (23 September) are celebrated every year.

LIBRARY

- The college has a well-maintained library with adequate number of books.
- Students get books issued on the days assigned to their respective classes.
- Ample number of magazines and daily newspapers are available for the students to peruse.
- Record is maintained by the library.

LESSON PLAN

- Faculty members prepare lesson plans for their respective subjects to ensure effective delivery of the curriculum.

LABORATORIES

- The college maintains well-equipped laboratories to cater to the needs of the students.
- Practical exams are conducted and students prepare manuals.
- Field work and Project Work are also conducted by different departments.

MENTOR-MENTEE SYSTEM

- Small group of students is allotted to individual faculty members.
- Various academic and other issues are addressed and resolved through these sessions.

TEACHING AIDS

- Besides the traditional chalk and board, the faculty members also use charts, maps, models, etc.
- Quiz, Group-Discussions, Educational Field Trips and Excursions are also organized.
- Role-play and case studies focus on the practical application of knowledge.
- Smart boards and PPTs are used to deliver lectures.
- To tackle the situation actuated by Covid-19 the faculty members made sure the continuity of teaching-learning process through online platforms like Google Meet, WhatsApp, Youtube, etc. Students were also provided with e-content.

TIME-TABLE COMMITTEE

- The Time-Table committee prepares the over-all time-table of the college,
- All the departments make their own time-tables as well which are duly displayed on college website and notice boards.

TEACHER SUPPORT

- The college assures faculty development by encouraging the members to participate in orientation, refresher programmes and workshops.
- Faculty members also participate in workshops related to curriculum development.

FEEDBACK

- The college takes feedback from students, parents and faculty members.
- The college assesses its performance and improves in requisite areas after analyzing the feedback.

Hence, the institute makes every effort to groom the students thus empowering and capacitating them to deal with the challenging future.

Govt College Meham, Rohtak , Haryana
Lesson Plan session 2021-22

Name of Assistant Professor: Dr Ruman Rani

Class: B Sc (NM)-1st Year   **Semester** : IInd   **Subject:** Inorganic Chemistry+ Organic Chemistry

Month	Week	Topic
March	3rd	Nomenclatu re of alkenes, , mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides,.
	4th	The Saytzeff rule, Hofmann elimination, physical p roperties and relative stabilities of alkenes.
April	Ist	Chemical reactions of alkenes mechanisms involved in hydrogenation, electrophilic and free radical additions, Markownikoff's rule
	2nd	hydroboration–oxidation, oxymercurationreduction, ozonolysis, hydration, hydroxylation and oxidation with KMnO4,
	3rd	Nomenclatu re of benzene deriva tives:. Aromatic nucleus and side chain. Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms, aromatic, anti - aromatic and non – aromatic compounds.
	4th	Aromatic electrophilic substitution general pattern of the mechanism, mechansim of nitration, halogenation, sulphonation, and Friedel-Crafts reaction. Energy profile diagrams. Activating , deactivating subs tituents and orientation.
May	Ist	s-Block Eleme nts: Comparative study of the elements including , diagonal relationships, salient features of hydrides (methods of preparation excluded), solvation and complexation tendencies including their function in biosystems.
	2nd	Chemis try of Noble Gases Chemical properties of the noble gases with emphasis on their low chemical reactivity, chemistry of xenon, structure and bonding of fluorides, ox ides & oxyfluorides of xenon
	3rd	Boron family (13th gp):- Diborane – properties and structure (as an example of electron – deficient compound and multicentre bonding), Borazene – chemical properties and structure Trihalides of Boron – Trends in fewis acid character structure of aluminium (III) chloride. Carbon Family (14th group) Catenation, p π– d π bonding (an idea), carbides, fluorocarbons, silicates structural aspects), silicons – general methods of preparations, properties and uses.
	4th	Dienes and Alkynes Nomenclature and classification of dienes: isolated, conjugated and cumulated dienes. Structure of butadiene,. Chemical reactions 1,2 and 1,4 additions (Electrophilic & free radical mechanism), Diels-Alder reaction, Nomenclature, structure and bonding in alkynes. Methods of formation. Chemical reactions of alkynes, acidity of alkynes. Mechanism of electrophilic and nucleophilic addition reactions, hydroborationoxidation of alkynes
June	Ist	Nomenclatu re and classes of alkyl halides, methods of formation, chemical reactions. Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides , SN2 and SN1reactions with energy profile diagrams.
	2nd	Methods of formation and reactions of aryl halides, The additionelimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions. Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides.
	3rd	Revisions and class test
	4th	Revisions and class test

Name of Assistant Professor: Dr Ruman Rani

Class: B Sc (NM)-2nd Year   **Semester** : IV   **Subject:** Inorganic Chemistry+ Organic Chemistry

Month	Week	Topic
March	3rd	Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region,
	4th	characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applica tions of IR spectroscopy in structure e lucidation of simple organic compounds.
April	Ist	Structure and nomenclatu re of amines, phys ical properties. Separation of a mixture of primary, secondary and tertiary amines.Structural featu res affecting basicity of amines.
	2nd	Prepa ration of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabrielphthalimide reaction,
	3rd	Hofmann bromamide reaction. electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.
	4th	Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H, OH, F, Cl, Br, I, NO2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application
May	Ist	Preparation of nitro alkanes and nitro arenes and their chemical reactions. Mechanism of electrophilic substitution reactions in nitro arenes and their reductions in acidic, neutral and alkaline medium.
	2nd	Lanthanides: Electronic structure, oxidation states and ionic radii and lanthanide contraction, complex formation, occurrence and isolation, lanthanide compounds
	3rd	Actinides : General features and chemistry of actinides, chemistry of separation of Np, Pu and Am from U, Comparison of properties of Lanthanides and Actinides and with transition elements .
	4th	Nomenclature and structure of the carbonyl group. Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides,
June	Ist	Advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate., Physical properties.
	2nd	Comparison of reactivities of aldehydes and ketones. Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol, Perkin and Knoevenagel condensations..
	3rd	Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones, Cannizzaro reaction. MPV, Clemmensen, Wolff-Kishner, LiAlH4 and NaBH4 reductions..
	4th	Revisions and class test

Name of Assistant Professor: Dr Ruman Rani
Class: B Sc (NM)-3rd Year   **Semester** : VI   **Subject:** Inorganic Chemistry+ Organic Chemistry

Month	Week	Topic
March	3rd	Heterocyclic Compounds-I: Introduction: Molecular orbital p icture and aromatic characteristics of pyrrole, furan, thiophene and pyridine.
	4th	Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole
April	Ist	Heterocyclic Compounds-II: Introduction to condensed five and six- membered heterocycles. Prepration and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis,
	2nd	Skraup synthesis and Bischler-Napieralski synthesis. Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline
	3rd	Organosulphur Compounds Nomenclature, structural features, Methods of formation and chemical reactions of thiols
	4th	thioethers, sulphonic acids, sulphonamides and sulphaguanidine. Synthetic detergents alkyl and aryl sulphonates
May	Ist	Organic Synthesis via Enolates: Acidity of -hydrogens, alkylation of diethyl malonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate: the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate.
	2nd	Synthetic Polymers: Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization, Ziegler-Natta polymerization and vinyl polymers. Condensat ion or step growth polymerization. Polyeste rs ,polyamides, phenol formaldehyde resins, urea formaldehyde resins, epoxy re sins and polyurethanes. Natural and synthetic rubbers.
	3rd	Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of -amino acids.Structure and nomenclature of peptides and proteins. Classification of proteins
	4th	Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid– phase peptide synthesis. Structures of peptides and proteins: Primary & Secondary structure.
June	Ist	Organometallic Chemistry Definition, nomenclature and classification of organometallic compounds. Preparation, properties, and bonding of alkyls of Li, Al, Hg, and Sn a brief account of metal-ethylenic complexes, mononuclear carbonyls and the nature of bonding in metal carbonyls.
	2nd	Acids and Bases, HSAB Concept Arrhenius, Bronsted – Lowry, the Lux – Flood, Solvent system and Lewis concepts of acids & bases, relative strength of acids & bases, Concept of Hard and Soft Acids & Bases. Symbiosis, electronegativity and hardness and softness
	3rd	Revisions and class test
	4th	Revisions and class test

Lesson Plan

Subject: Data Communication and Networking

Name Of Faculty : Smt Sophia

BCA 5th em BCA-303

Week 1
Introduction to Computer Communications and Networking Technologies; Uses of Computer Networks; Network Devices, Nodes, and Hosts; Types of Computer Networks and their Topologies;

Week 2
Network Software: Network Design issues and Protocols; Connection-Oriented and Connectionless Services; Network Applications and Application Protocols; Computer Communications and Networking Models: Decentralized and Centralized Systems, Distributed Systems, Client/Server Model, Peer-to-Peer Model, Web Based Model,

Week 3
Network Architecture and the OSI Reference Model, TCP/IP reference model.

Week 4
Example Networks: The Internet, X.25, Frame Relay, ATM.

Week 5
Analog and Digital Communications Concepts: Concept of data, signal, channel, bid-rate , maximum data-rate of channel, Representing Data as Analog Signals, Representing Data as Digital Signals, Data Rate and Bandwidth, Capacity, Baud Rate; Asynchronous and synchronous transmission, data encoding techniques,

Week 6
Modulation techniques, Digital Carrier Systems; Guided and Wireless Transmission Media; Communication Satellites; Switching and Multiplexing; Dialup Networking; Analog Modem Concepts; DSL Service.

Week 7
Data Link Layer: Framing, Flow Control, Error Control; Error Detection and Correction; Sliding Window Protocols; Media Access Control: Random Access Protocols, Token Passing Protocols; Token Ring; Introduction to LAN technologies: Ethernet, switched Ethernet, VLAN, fast Ethernet, gigabit Ethernet, token ring, FDDI, Wireless LANs; Bluetooth;

Week 8
Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards, Bridges, Switches, Routers, Gateways.

Week 9
Network Layer and Routing Concepts: Virtual Circuits and Datagram's;

Week 10
Routing Algorithms: Flooding, Shortest Path Routing, Distance Vector Routing; Link State Routing, Hierarchical Routing; Congestion Control Algorithms; Internetworking;

Week 11
Network Security Issues: Security threats; Encryption Methods; Authentication; Symmetric – Key Algorithms; Public-Key Algorithms.

Week 12 and 13
Revision of Important Topic and solving of Numerical Problem in OS

Lesson Plan

Subject: Data Structure-I

Name Of Faculty : Smt Sophia

BCA 3rd Sem BCA-202

Week 1
Introduction: Elementary data organization, Data Structure definition, Data type vs. data structure, Categories of data structures.
Week 2
Data structure operations, Applications of data structures, Algorithms complexity and time-space tradeoff.
Week 3
Big-O notataion. Strings: Introduction, Storing strings, String operations, Pattern matching algorithms.
Week 4
Arrays: Introduction, Linear arrays, Representation of linear array in memory, address calculations, Traversal, Insertions, Deletion in an array.
Week 5
Multidimensional arrays, Parallel arrays, Sparse arrays. Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory.
Week 6
Traversal, Insertion, Deletion, Searching in a linked list, Header linked list, Circular linked list, Two-way linked list, Threaded lists, Garbage collection, Applications of linked lists.
Week 7
Stack: Introduction, Array and linked representation of stacks, Operations on stacks, Applications of stacks.
Week 8
Applications of stacks: Polish notation, Recursion. Queues: Introduction, Array and linked representation of queues.
Week 9
Operations on queues, Deques, Priority Queues, Applications of queues.
Week 10
Tree: Introduction, Definition, Representing Binary tree in memory, Traversing binary trees, Traversal algorithms using stacks.
Week 11
Graph: Introduction, Graph theory terminology, Sequential and linked representation of graphs.
Week 12
Revision of Important Topic.

Lesson Plan

Subject: Computer Graphics

Name Of Faculty : Smt Sophia

BCA 5th Sem BCA-302

Week	Topic covered
Week 1	Introduction to content of paper and its application. Introduction to computer and its various components. Graphics Primitives: Introduction to computer graphics, Basics of Graphics systems, Application areas of Computer Graphics.
Week 2	Overview of graphics systems, video-display devices, and raster-scan systems, random scan systems, graphics monitors and workstations and input devices. Output Primitives: Points and lines, line drawing algorithms.
Week 3	Mid-point circle and ellipse algorithms. Filled area primitives: Scan line polygon fill algorithm, boundary fill and floodfill algorithms
Week 4	2-D Geometrical Transforms: Translation, scaling, rotation, reflection and shear transformations, matrix representations and homogeneous coordinates.
Week 5	Composite transforms, transformations between coordinate systems. 2-D Viewing: The viewing pipeline, viewing coordinate reference frame. Sutherland –Hodgeman polygon clipping algorithm.
Week 6	3-D Object Representation: Polygon surfaces, Quadric surfaces, spline representation, Hermite curve.
Week 7	Bezier curve and B-Spline curves, Bezier and B-Spline surfaces. Basic illumination models, polygon-rendering methods.
Week 8	3-D Geometric Transformations: Translation, rotation.
Week 9	Scaling, reflection and shear transformations, composite transformations.
Week 10	3-D Viewing: Viewing pipeline, viewing coordinates, view volume and general projection transforms and clipping.
Week 11 & 12	Revision of Important Topics.

Lesson Plan

Subject: Logical Organisation-I

Name Of Faculty : Smt Sophia

BCA 1ˢᵗ Sem BCA-104

Week 1
Information Representation: Number Systems, Binary Arithmetic, Fixed-point and Floating point representation of numbers.

Week 2
BCD Codes, Error detecting and correcting codes, Character Representation.

Week 3
Character Representation – ASCII, EBCDIC, Unicode.

Week 4
Binary Logic: Boolean Algebra, Boolean Theorems, Boolean Functions.

Week 5
Boolean Functions and Truth Tables, Canonical and Standard forms of Boolean functions.

Week 6
Simplification of Boolean Functions – Venn Diagram, Karnaugh Maps.

Week 7
Digital Logic: Introduction to digital signals, Basic Gates – AND, OR, NOT, Universal Gates and their implementation – NAND, NOR.

Week 8
Other Gates – XOR, XNOR etc. NAND, NOR, AND-OR-INVERT and OR-AND-INVERT implementations of digital circuits.

Week 9
Combinational Logic – Characteristics, Design Procedures, analysis procedures, Multilevel NAND and NOR circuits.

Week 10
Combinational Circuits: Half-Adder, Full-Adder, Half-Subtractor, Full-Subtractor, Parallel binary adder/subtractor, Encoders, Decoders.

Week 11
Multiplexers, Demultiplexers, Comparators, Code Converters, BCD to Seven-Segment Decoder.

Week 12
Revision of Important Topic.

B.SC (2nd Year) 4th Sem. Hindi (Dinesh kumar)2019-2020

Lesson Plan

1 जनवरी 2020- हिन्दी गध्य की सामान्य परिचय।

6 जनवरी से 8 जनवरी- संस्मरण विधा में महादेवी वर्मा का स्थान

13 जनवरी से 15 जनवरी- निराला काई संस्मरण का पठन पाठय एवं प्रश्न।

20 जनवरी से 22 जनवरी- प्रेमचन्द . '' '' '' '' '' '' '' '' '' '' '' ''

27 से 29 जनवरी- जयशंकर प्रसाद संस्मरण का पठन पाठय एवं प्रश्न

3 फरवरी से 5 फरवरी- सुमित्रानन्द पंत '' '' '' '' '' '' '' '' ''

10 फ़रवरी से 12 फरवरी- सुभद्रा पाठ पर विचार- विर्मश प्रश्न

17 फ़रवरी से 19 फ़रवरी- प्रणाम पाठ

24 फ़रवरी से 26 फ़रवरी -पुण्य स्मरण पाठ   **First Test + Assignment**

2 मार्च से 4 मार्च॰ राजेन्द्र बाबू अध्याय पठन /पाठय/प्रश्न

16 मार्च से 18 मार्च- संत राजर्षि   '' '' '' '' '' '' ''

23 मार्च से 25 मार्च - पत्रों का सामान्य परिचय।   **Second Test + Assignment**

30 मार्च से 1 अप्रैल -सरकारी /अर्धसरकारी पत्रों का विवेचन-विश्लेषण

6 अप्रैल से 8 अप्रैल - तार लेखन एवं वैज्ञानिक शब्दावली पर चर्चा।

13 अप्रैल से 15 अप्रैल- निबव्ध लेखन पर चर्चा।

20 अप्रैल से 22 अप्रैल- निर्धारित निब्धयों पर कक्षा में विचार-विमर्श।

27 अप्रैल से 29 अप्रैल- समस्त पाठ्यक्रम पर पुन विचार : परीक्षा दृष्टि से

हिन्दी विभाग
पाठ-योजना   सत्र- 202
B. A Ⅱnd Year

15 सितम्बर से 19 सितम्बर — हिन्दी साहित्य का सामान्य परिचय
(रीतिकाल की पूर्व-पीठिका)

21 सितम्बर से 26 सितम्बर — रीतिकालीन साहित्य की सामान्य—
रीति शब्द का अर्थ।

28 सितम्बर से 3 अक्टूबर — रीतिकाल की परिस्थितियाँ।

5 अक्टूबर से 10 अक्टूबर — रीतिकाल का नामकरण।

12 अक्टूबर से 16 अक्टूबर — रीतिकाल के गुण/दोष उपलब्धियाँ।

19 अक्टूबर से 24 अक्टूबर — अयोध्यासिंह उपाध्याय 'हरिऔध',
परिचय एवं 30 ल्यारणा।

26 अक्टूबर से 30 अक्टूबर — अंतिम 27 की व्याख्या व उनसे संं

2 नवम्बर से 7 नवम्बर — मैथिलीशरण गुप्त का साहित्यिक प
तथा व भारत- भारती कविता व

9 नवम्बर से 12 नवम्बर — 'संदेश यहाँ जहाँ मैं स्वर्ग का लोग
व्याख्या व तीनों कविताओं के प

16 नवम्बर से 21 नवम्बर — जयशंकर प्रसाद का साहित्यिक- प

5 सितम्बर से 19 सितम्बर :- हिन्दी साहित्य इतिहास का सामान्य - परिचय
(आधुनिक काल की पूर्व-पीठिका)

20 सितम्बर से 26 सितम्बर :- आधुनिक काल की परिस्थितियाँ एवं नामकरण
पर विचार।

27 सितम्बर से 3 अक्टूबर :- आधुनिककाल की सामान्य उपलब्धियाँ एवं स्वर्णयुग
के रूप में भक्तिकाल से तुलना।

4 अक्टूबर से 10 अक्टूबर :- भारतेन्दुकालीन साहित्य का परिचय एवँ भारतेन्दु का स्थान

11 अक्टूबर से 24 अक्टूबर :- द्विवेदीकालीन साहित्य का परिचय एवं मैथिलीशरणगुप्त
का स्थान।

25 अक्टूबर से 30 अक्टूबर :- द्विवेदीकालीन साहित्य की समग्र विशेषताएँ।

31 नवम्बर से 7 नवम्बर :- छायावाद का सामान्य -परिचय एवं प्रमुख कवियों पर
विचार तथा छायावाद को आधुनिक युग का स्वर्णकाल
कहा जा सकता है क्यों ?

9 नवम्बर से 12 नवम्बर :- छायावाद की विशेषताएँ।

16 नवम्बर से 21 नवम्बर :- प्रगतिवाद का सामान्य- परिचय एवं विशेषताएँ।

23 नवम्बर से 28 नवम्बर :- प्रयोगवाद अथवा नई कविता का सामान्य-परिचय
एवं विशेषताएँ।

30 नवम्बर से 5 दिसम्बर :- समकालीन काव्य का सामान्य-परिचय एवं विशेषताएँ
(काव्य-पुस्तक के सन्दर्भ में विश्लेषण)

7 दिसम्बर से 12 दिसम्बर :- जयशंकर प्रसाद का साहित्यिक परिचय एवं उनकी पाठ्य-पुस्त

...तम्बर से 28 सितम्बर — 'आँसू' कविता की व्याख्या व दो... के प्रश्न-उत्तर पर-चर्चा।

30 नवम्बर से 5 दिसम्बर — 'सूर्यकांत त्रिपाठी निराला' का साहित... विधवा कविता व 'बादल राग' का...

7 दिसम्बर से 12 दिसम्बर — जागो फिर एक बार व तोड़ती प... की व्याख्या व दोनों कविताओं...

14 दिसम्बर से 19 दिसम्बर — महादेवी का साहित्यिक -परिच... माँ क्या अब देखूं, कौन तुम... कविता की व्याख्या।

21 दिसम्बर से 26 दिसम्बर — 'दुख की बदली', व मुस्काते फू... की व्याख्या व सभी कविताओं...

28 दिसम्बर से 2 जनवरी — 'रामधारीसिंह दिनकर' का साहित्य... कुरुक्षेत्र कविता की व्याख्या व प्र...

4 जनवरी से 9 जनवरी — 'भारतभूषण अग्रवाल' का साहि... एवं आने वालों से एक सवाल व... और फूल के बोल कविता की... प्रश्न - उत्तर।

11 जनवरी से 16 जनवरी — शीतकाल की विशेषताएँ, शीति...

ंजनवरी से 30 जनवरी — कंप्यूटर : स्वरूप और महत्त्व |

1 फरवरी से 6 फरवरी — ई-मेल: प्रेषण –ग्रहण |

8 फरवरी से 13 फरवरी — इंटरनेट : स्वरूप और उपयोगिता|

15 फरवरी से 20 फरवरी — मशीनी अनुवाद, अनुवाद : परिभाष
स्वरूप |

22 फरवरी से 27 फरवरी — पाठ्यक्रम पर पुन: विचार समस्त-
समाधान |

B. A I

11 जनवरी से 16 जनवरी →
रसखान का साहित्यिक परिचय एवं संकलित
काव्य का पठन - पाठन।

18 जनवरी से 23 जनवरी →
बिहारी का साहित्यिक परिचय एवं संकलित
काव्य का पठन - पाठन।

25 जनवरी से 30 जनवरी →
घनानन्द का साहित्यिक परिचय एवं
संकलित काव्य का पठन - पाठन।

01 फरवरी से 06 फरवरी →
काव्यशास्त्र की परिभाषा, स्वरूप एवं
तत्त्वों की विवेचना।

※ मासिक परीक्षा एवं Assingnement. ※

08 फरवरी से 13 फरवरी →
शब्द शक्ति की परिभाषा, अर्थ एवं
प्रकार। काव्य गुण की परिभाषा, अर्थ
एवं प्रकार।

15 फरवरी से 20 फरवरी →
अलंकार की परिभाषा अर्थ, एवं काव्य में
अलंकारों का महत्त्व और पाठ्यक्रम में संकलित
अलंकारों का विवेचन।

22 फरवरी से 27 फरवरी →
छन्दशास्त्र की चर्चा एवं विभिन्न रसों
का विवेचन।

※ मासिक परीक्षा एवं Assignment ※

दिसम्बर से 19 दिसम्बर — अज्ञेय जी की शेष चार कविताओं का पठन-पाठन एवं प्रश्नोत्तर पर विचार-विमर्श ।

दिसम्बर से 26 दिसम्बर — कवि धर्मवीर भारती का साहित्यिक-परिचय एवं उनकी चार कविताओं का पठन पाठन ।

28 दिसतम्बर से 2 जनवरी — कवि धर्मवीर भारती की चार कविताओं का पठन-पाठन एवं प्रश्नोत्तर पर चर्चा ।

4 जनवरी से 9 जनवरी :— कवि नरेश मेहता का साहित्यिक परिचय एवं कविताओं का पठन-पाठन एवं प्रश्नोत्तर पर चर्चा ।

11 जनवरी से 16 जनवरी — कवि नागार्जुन का साहित्यिक-परिचय एवं कविताओं का पठन-पाठन एवं प्रश्नोत्तर ।

18 जनवरी 23 जनवरी — कवि रघुवीर सहाय का साहित्यिक परिचय एवं उनकी चार कविताओं का पठन-पाठन ।

25 जनवरी से 30 जनवरी — कवि रघुवीर सहाय की शेष कविताओं का पठन-पाठन एवं प्रश्नोत्तर

1 फरवरी से 6 फरवरी — कवि कुँवर नारायण का साहित्यिक-परिचय एवं उनकी कविताओं का पठन-पाठन एवं प्रश्नोत्तरपरचर्चा

8 फरवरी से 13 फरवरी — कवि लीलाधर जगूड़ी का साहित्यिक-परिचय एवं संकलित कविताओं का पठन-पाठन एवं प्रश्नोत्तर पर

15 फरवरी से 20 फरवरी — पत्र-लेखन का सामान्य-परिचय एवं विभिन्न भेद

18 .... — .... एवं पल्लवन की परिभाषा एवं चर्चा अध्ययन पाठ

१ नवम्बर से २१ नवम्बर :→ हिन्दी साहित्य इतिहास का सामान्य परिचय एंव काल विभाजन पर विभिन्न विद्वानों का मत एंव साहित्य इतिहास लेखन परम्परा।

नवम्बर से २८ नवम्बर :→ आदिकाल के नामकरण की समस्या एंव आदिकाल की विभिन्न परिस्थितियां,

३० नवम्बर से ०५ दिसंबर :→ आदिकालीन साहित्य की सामान्य प्रवृतियाँ।

०७ दिसंबर से १२ दिसंबर :→ रासौं काव्य परम्परा का संक्षिप्त परिचय एंव पृथ्वीराज रासौ की प्रामाणिकता एंव अप्रामाणिकता।

✳ — मासिक परीक्षा एंव Assignment. ✳

१४ दिसंबर से १९ दिसंबर :→ मध्यकालीन काव्य कुंज पाठ्य पुस्तक के प्रथम कवि कबीर का साहित्यिक परिचय एंव संकलित साखियों का पठन- पाठन।

दिसंबर से 26 दिसंबर :→ सूरदास का साहित्यिक परिचय एंव संकलित पदों का पठन- पाठन।

२८ दिसंबर से ०२ जनवरी :→ तुलसीदास का साहित्यिक परिचय एंव संकलित काव्य का पठन- पाठन।

०४ जनवरी से ०९ जनवरी :→ मीराबाई का साहित्यिक परिचय एंव संकलित काव्य का पठन- पाठन।

✳ मासिक परीक्षा एंव Assignment ✳

Lesson Plan session 2021-22(Even Semester)

Class BCA-2nd sem

Teacher: -Suresh Kumar   Subject : C programming

March	
Week 4	Overview of C: History of C, Importance of C, Elements of C: C character set, identifiers and keywords,
Week 5	Data types, Constants and Variables, Assignment statement,
April Week 1st	Symbolic constant, Structure of a C Program, printf(), scanf() Functions, Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, shorthand assignment operators, conditional operators and increment and decrement operators,
Week 2nd	Arithmetic expressions, evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity. UNIT-II Decision making & branching:
Week 3rd	Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE-IF ladder, switch statement, goto statement.
Week 4th	Decision making & looping: For, while, and do-while loop, jumps in loops, break,
May Week 1st	continue statement, Nested loops. UNIT-III Functions: Standard Mathematical functions, Input/output:
Week 2nd	Unformatted & formatted I/O function in C, Input functions viz. getch(), getche(), getchar(), gets(), output functions viz., putch(), putchar(), puts(), string manipulation functions.
Week 3rd	User defined functions: Introduction/Definition, prototype, Local and global variables, passing parameters, recursion. UNIT-IV Arrays, strings and pointers: Definition,
Week 4th	types, initialization, processing an array, passing arrays to functions, Array of Strings. String constant and variables,
June Week 1st	Declaration and initialization of string, Input/output of string data,
Week 2nd	Introduction to pointers. Storage classes in C: auto, extern, register and static storage class,
Week 3rd	their scope, storage, & lifetime. Algorithm development, Flowcharting and Development of efficient program in C.
Week 4th	Test

Lesson Plan session 2021-22(Even Semester)

Class   BCA -4th Sem   **Teacher: - SURESH**
KUMAR   **Subject : Object Oriented Programming Using C++**

March	Object Oriented Programming Using C++
Week 4	UNIT-I Object Oriented Programming Concepts : Procedural Language and Object Oriented approach
Week 5	Characteristics of OOP, user defined types, polymorphism and encapsulation. Getting started with C++: syntax, data types,
April Week 1st	UNIT-II Abstracting Mechanism: classes, private and public, Constructor and Destructer ,
Week 2nd	member function, static members, references; Memory Management: new, delete,
Week 3rd	object copying, copy constructer, assignment operator, this input/output
Week 4th	UNIT-III Inheritance and Polymorphism:
May Week 1st	Derived Class and Base Class, Different types of Inheritance, Overriding member function,
Week 2nd	Abstract Class, Public and Private Inheritance, Ambiguity in Multiple inheritance ,
Week 3rd	Virtual function, Friend function, Static function.
Week 4th	UNIT-IV Exception Handling: Exception and derived class,
June Week 1st	function exception declaration, unexpected exception, exception when handling exception,
Week 2nd	resource capture and release. Template and Standard Template Library: Template classes, declaration, template functions,
Week 3rd	namespace, string, iterators, hashes, iostreams and other types.
Week 4th	Test

Lesson Plan session 2021-22(Even Semester)

Class   BCA -6th Sem   Teacher: -SURESH
KUMAR   Subject: Dot Net

March	Dot Net
Week 4	UNIT – I The Framework of .Net: Building blocks of .Net Platform (the CLR, CTS and CLS),
Week 5	Features of .Net, Deploying the .Net Runtime, Architecture of .Net platform
April Week 1st	Introduction to namespaces & type distinction. Types & Object in .Net, the evolution of Web development .
Week 2nd	UNIT – II Class Libraries in .Net, Introduction to Assemblies & Manifest in .Net, Metadata & attributes .
Week 3rd	Introduction to C#: Characteristics of C#, Data types: Value types, reference types, default value
Week 4th	constants, variables, scope of variables, boxing and unboxing.
May Week 1st	UNIT – III Operators and expressions: Arithmetic, relational, logical, bitwise, special operators, evolution of expressions
Week 2nd	operator precedence & associativity, Control constructs in C#: Decision making, loops, Classes & methods: Class,
Week 3rd	methods, constructors, destructors,
Week 4th	, overloading of operators & functions. UNIT – IV Inheritance & polymorphism:
June Week 1st	visibility control, overriding, abstract class & methods, sealed classes & methods,
Week 2nd	interfaces. Advanced features of C#: Exception handling & error handling,
Week 3rd	automatic memory management, Input and output (Directories, Files, and streams)
Week 4th	Test

Lesson Plan session 2021-22(Even Semester)

Class   BCA -6th Sem   Teacher: - SURESH KUMAR

Subject : Object Technologies & Programming using Java

March	Object Technologies & Programming using Java
Week 4	UNIT-I Object Oriented Methodology-1: Paradigms of Programming Languages,
Week 5	Evolution of OO Methodology, Basic Concepts of OO Approach, Comparison of Object Oriented and Procedure Oriented Approaches, Benefits of OOPs,
April Week 1st	Introduction to Common OO Language, Applications of OOPs . Object Oriented Methodology-2: Classes and Objects, Abstraction and Encapsulation, Inheritance,
Week 2nd	Method Overriding and Polymorphism. UNIT-II Java Language Basics: Introduction To Java, Basic Features, Java Virtual Machine Concepts,
Week 3rd	Primitive Data Type And Variables, Java Operators, Expressions, Statements and Arrays. Object Oriented Concepts: Class and Objects-- Class Fundamentals, Creating objects ,
Week 4th	Assigning object reference variables; Introducing Methods, Static methods, Constructors , Overloading constructors; This Keyword; Using Objects as Parameters,
May Week 1st	Argument passing, Returning objects , Method overloading, Garbage Collection, The Finalize ( ) Method. Inheritance and Polymorphism: Inheritance Basics, Access Control, Multilevel Inheritance, Method Overriding,
Week 2nd	Abstract Classes, Polymorphism, Final Keyword. UNIT-III Packages : Defining Package,
Week 3rd	CLASSPATH, Package naming, Accessibility of Packages , using Package Members. Interfaces: Implementing Interfaces, Interface and Abstract Classes, Extends and Implements together
Week 4th	Exceptions Handling : Exception , Handling of Exception, Using try-catch , Catching Multiple Exceptions , Using finally clause ,
June Week 1st	. Types of Exceptions, Throwing Exceptions, Writing Exception Subclasses. UNIT-IV Multithreading : Introduction , The Main Thread, Java Thread Model, Thread Priorities,
Week 2nd	Synchronization in Java, Inter thread Communication. I/O in Java : I/O Basics, Streams and Stream Classes ,The Predefined Streams, Reading from, and Writing to, Console, Reading and Writing Files
Week 3rd	, The Transient and Volatile Modifiers , Using Instance of Native Methods. Strings and Characters : Fundamentals of Characters and Strings, The String Class , String Operations , Data Conversion using Value Of ( ) Methods , String Buffer Class and Methods.
Week 4th	Test

LESSON PLAN
(March 21, 2022 to June 30, 2022)

Name of Assistant Professor:- **Ms. Sudesh Kumari**
Class & Section:- **BA/B.Sc II Mathematics (4th Semester)**
Paper:- **Special Functions & Integral Transforms (2nd Paper)**
Subject:- **Lesson Plan (March 21, 2022 to June 30, 2022)**

March	
Week 4	**Laplace Transforms** Definition, Results, Laplace Transformation of some Elementary Functions Linear Property of Laplace Transformation, Examples on Laplace Transformation
Week 5	First Shifting Property-Examples, Change of Scale Property, Piece-Wise Continuity of a Function in an Interval, Second Shifting Property –Examples *Test and Assignment
April	
Week 1	Laplace Transformation of Derivatives, Effect of Multiplication of f(t) by t^n in finding Laplace Transform, Effect of Division of f(t) by t in finding Laplace Transform
Week 2	Convolution Theorem-Examples, Laplace Transform of Periodic Function, Laplace Transform of Integrals—Examples
Week 3	**Inverse Laplace Transforms** Inverse Laplace Transforms-Examples, Inverse Laplace Transform of Derivatives-Examples, Inverse Laplace Transform of Integrals-Examples, Solution of Differential Equations by Laplace Transformation-Examples,
Week 4	**Infinite Fourier Transform** Infinite Fourier Transform,Fourier sine Transform,Fourier Cosine Transform, Properties of Fourier Transforms, Examples, Change of Scale Properties,Shifting Property *Test and Assignment
May	
Week 1	Modulation Property, Examples, Convolution Theorem, Fourier Transform of the Derivative, Relation between Fourier and Laplace Tranform Parseval's Identities, Examples, Finite Fourier sine and cosine Transform-Examples, Solution of Differtial Equation by Fourier Transforms-Examples
Week 2	**Power Series** Power Series, Analytic Functions,Ordinary and Singular Points of Differential Equations, Series Solutions of Differential Equations **Bessel's Equation** Bessel's Equation and Bessel's Function, Beta and Gamma Function, Bessel's Equation and its Solution, Bessel's Function, Deduction of Bessel's Function in the form of series
Week 3	Recurrence Relations for Bessel's Function, Orthogonality of Bessel's Function, Generating Function for $J_n(x)$, Representation of $J_n(x)$ in Integral
Week 4	*Test and Assignment
June	
Week 1	**Legendre's Equation** Solution of Legendre's Equation Legendre's Polynomial, Rodrigue's Formula Derivation of Legendre's Polynomial from Rodrigue's Formula
Week 2	Generating Function for $P_n(x)$, Examples on Legendre's Polynomial, Recurrence Relations, Examples on Orthogonality of Legendre Polynomial,
Week 3	**Hermite's Equation** Generating Function for Hermite's Polynomial, Recurrence Relations Examples on Recurrence Relations, Examples on Hermite's Polynomial,
Week 4	***Revision, Test and Assignments**

LESSON PLAN
(March 21, 2022 to June 30, 2022)

Name of Assistant/Associate Professor:- **Mr. N.N. Yadav**
Class & Section:- **BA/B.Sc III Mathematics (6th Semester)**
Paper:- **Real and Complex Analysis (1st paper)**
Subject:- **Lesson Plan (March 21, 2022 to June 30, 2022)**

March	
Week 4	Jacobians, Beta and Gama functions.
Week 5	Double and Triple integrals, Dirichlets integrals, Test
April	
Week 1	Change of order of integration in double integrals, Test and Revision of Jacobians and Double-Triple Integral
Week 2	Fourier's series: Fourier expansion of piecewise monotonic functions
Week 3	Properties of Fourier Co-efficients, Dirichlet's conditions,
Week 4	Parseval's identity for Fourier series, Revision of Fourier *Test and Assignment
May	
Week 1	Fourier series for even and odd functions, Half range series, Change of Intervals, Extended Complex Plane
Week 2	Stereographic projection of complex numbers, Continuity of complex functions, Differentiability of complex functions
Week 3	Analytic functions, Cauchy-Riemann Equations, Harmonic functions
Week 4	*Test and Assignment
June	
Week 1	Conformal Mappings, Mobius transformations, Assignments.
Week 2	Fixed pints, Cross ratio and Inverse Points, Test and assignments.
Week 3	Critical Mappings
Week 4	***Revision, Test and Assignments**

LESSON PLAN
(March 21, 2022 to June 30, 2022)

Name of Assistant/Associate Professor:- **Mr. N.N. Yadavi**
Class & Section:- **BA/B.Sc I Mathematics (2nd Semester)**
Paper:- **Vector Calculus (3rd Paper)**
Subject:- **Lesson Plan (March 21, 2022 to June 30, 2022)**

March	
Week 4	**Vector Product** Definition of Vector, Results on Vectors, Scalar and Vector Product of three Vectors, Product of four Vectors
Week 5	Reciprocal Vectors, Scalar Valued Point Functions, Vector Valued Point Functions *Test and Assignment
April	
Week 1	**Derivative of Vectors** Vector Differentiation, Derivative along a Curve –Examples
Week 2	Directional Derivatives —Examples
Week 3	**Gradient** Gradient of a Scalar Point Function, Geometrical Interpretation of Gradient - Examples,
Week 4	**Divergence and curl** Divergence and Curl of Vector Point Function, Characters of Divergence and Curl as Point Function Gradient, Divergence and Curl of Sums and Product and their Related Vector Identities. Laplacian Operator *Test and Assignment
May	
Week 1	Orthogonal Curvilinear Coordinates Conditions for Orthogonality Fundamental triad of Mutually Orthogonal Unit Vectors
Week 2	Gradient, Divergence, Curl and Laplacian Operators in terms of Orthogonal Curvilinear Coordinates –Examples
Week 3	Cylindrical Co-ordinates and Spherical Co-ordinates-Examples
Week 4	*Test and Assignment
June	
Week 1	**Vector Integration** Line Integral, Surface Integral-Examples
Week 2	Vector Integration Volume Integral-Examples
Week 3	Theorems of Gauss, Green & Stokes and Problems based on these Theorms.
Week 4	***Revision, Test and Assignments**

LESSON PLAN
(March 21, 2022 to June 30, 2022)

Name of Assistant/Associate Professor:- **Mr. N.N. Yadavi**
Class & Section:- **B.Sc. Hons. Mathematics (2nd Semester)**
Paper:- **Vector Calculus (3rd Paper)**
Subject:- **Lesson Plan (March 21, 2022 to June 30, 2022)**

March	
Week 4	**Vector Product** Definition of Vector, Results on Vectors, Scalar and Vector Product of three Vectors, Product of four Vectors
Week 5	Reciprocal Vectors, Scalar Valued Point Functions, Vector Valued Point Functions *Test and Assignment
April	
Week 1	**Derivative of Vectors** Vector Differentiation, Derivative along a Curve –Examples
Week 2	Directional Derivatives —Examples
Week 3	**Gradient** Gradient of a Scalar Point Function, Geometrical Interpretation of Gradient - Examples,
Week 4	**Divergence and curl** Divergence and Curl of Vector Point Function, Characters of Divergence and Curl as Point Function Gradient, Divergence and Curl of Sums and Product and their Related Vector Identities. Laplacian Operator *Test and Assignment
May	
Week 1	Orthogonal Curvilinear Coordinates Conditions for Orthogonality Fundamental triad of Mutually Orthogonal Unit Vectors
Week 2	Gradient, Divergence, Curl and Laplacian Operators in terms of Orthogonal Curvilinear Coordinates –Examples
Week 3	Cylindrical Co-ordinates and Spherical Co-ordinates-Examples
Week 4	*Test and Assignment
June	
Week 1	**Vector Integration** Line Integral, Surface Integral-Examples
Week 2	Vector Integration Volume Integral-Examples
Week 3	Theorems of Gauss, Green & Stokes and Problems based on these Theorms.
Week 4	***Revision, Test and Assignments**

LESSON PLAN
(March 21, 2022 to June 30, 2022)

Name of Assistant Professor:- **Ms. Sudesh Kumari**
Class & Section:- **B.Sc. Hons. Mathematics (2nd Semester)**
Paper:- **Discrete Mathematics-II (4th Paper)**
Subject:- **Lesson Plan (March 21, 2022 to June 30, 2022)**

March	
Week 4	Lattices and their properties with examples
Week 5	Lattice as algebraic system-Examples, Bounded lattice –Examples
April	
Week 1	Complement and distributive lattices –Examples
Week 2	Boolean Algebra and Properties -definition and examples
Week 3	Duality, Distributive and Complemented with Examples, Design and Implementation of Digital Networks
Week 4	Switching Circuits, Karnaugh Map-Examples *Test and Assignment
May	
Week 1	Graph, definition, Exemplary types of Graphs with Examples
Week 2	Paths and Circuits- Eulearian and Hermitian Circuits with Examples
Week 3	Seven Bridges Machine, Shortest Path, Traveling Salesman Problems. Planar Graph. Matrix of Graph
Week 4	*Test and Assignment
June	
Week 1	Directed Graphs, Trees, Isomorphism of Trees with Examples
Week 2	Representation of Algebraic Expressions by Binary Trees, Spanning Tree of a Graph-Examples
Week 3	Shortest Path Problem, Minimal Spanning Trees, Cut Sets, Tree Searching with Examples
Week 4	***Revision, Test and Assignments**

GOVT. COLLEGE
MEHAM (ROHTAK)
WOMEN CELL
MEGA COMPETITION

Mantal health

Meham, Haryana, India
X863+R9F, National Highway 10, Meham, Haryana
124112, India
Lat 28.962175°
Long 76.303501°

Meham, Haryana, India
Rohtak, NH-10, Delhi Rohtak Hisar Road, Maham,
Meham, Haryana 124112, India
Lat 28.961913°
Long 76.303616°