3. COURSE STRUCTURE OF B.SC. HONOURS (COMPUTER SCIENCE)

I Year I Semester:

S.No	Course Code	Nature of the Course	Title of the Course	No. of Hrs /Week	No. of Credits
1	CP16101PS	Major	Essentials and applications of Mathematical, Physical and Chemical Sciences	5	4
2	CP16102PS	Major	Advances in Mathematical, Physical and Chemical Sciences	5	4
3	SM10	First Language	English- A Course in Communication and Soft Skills	4	3
4	SM11 SM12 SM13 SM14	Second Language	Hindi-Hindi Gadya Sahitya Sanskrit-Poetry, Prose & Grammar-I Telugu- Sahiti Sourabham Urdu-Urdu Poetry	4	3
5&6	SC101 SC102 SC103 SC104	Skill Courses	A student has to choose any TWO of the following four courses 1.Entrepreneurship Development 2. Leadership Skills 3. Analytical Skills 4. Communication Skills	2 2	2 2
7	MDC101 MDC102 MDC103 MDC104 MDC105 MDC106	Multidisciplinary Courses	A student has to choose ONE course from among the six courses listed against the semester. Students are not permitted to choose the repeat courses already undergone at the higher secondary level or Intermediate level or 12th class and the major discipline chosen as the multidisciplinary course. 1.Introduction to Social Work 2.Principles of Psychology 3. Indian History 4. Principles of Biological Sciences 5. Principles of Chemical Sciences 6. Principles of Physical Sciences	2	2
Total Hours/Week &Total Credits				24	20

MAJOR-SUBJECTS

I SEMESTER

COURSE 1 : ESSENTIALS AND APPLICATIONS OF MATHEMATICAL, PHYSICAL AND CHEMICAL SCIENCES

Hours: 5hrs/week Credits: 4

Course Objective:

The objective of this course is to provide students with a comprehensive understanding of the essential concepts and applications of mathematical, physical, and chemical sciences. The course aims to develop students' critical thinking, problem-solving, and analytical skills in these areas, enabling them to apply scientific principles to real-world situations.

Learning outcomes:

1. Apply critical thinking skills to solve complex problems involving complex numbers, trigonometric ratios, vectors, and statistical measures.
2. To Explain the basic principles and concepts underlying a broad range of fundamental areas of physics and to Connect their knowledge of physics to everyday situations
3. To Explain the basic principles and concepts underlying a broad range of fundamental areas of chemistry and to Connect their knowledge of chemistry to daily life.
4. Understand the interplay and connections between mathematics, physics, and chemistry in various applications. Recognize how mathematical models and physical and chemical
5. principles can be used to explain and predict phenomena in different contexts.
6. To explore the history and evolution of the Internet and to gain an understanding of network security concepts, including threats, vulnerabilities, and countermeasures.

UNIT I: ESSENTIALS OF MATHEMATICS:9hrs

Complex Numbers: Introduction of the new symbol i – General form of a complex number – Modulus- Amplitude form and conversions

Trigonometric Ratios: Trigonometric Ratios and their relations – Problems on calculation of angles Vectors: Definition of vector addition – Cartesian form – Scalar and vector product and problems Statistical Measures: Mean, Median, Mode of a data and problems

UNIT II: ESSENTIALS OF PHYSICS: 9hrs

Definition and Scope of Physics- Measurements and Units - Motion of objects: Newtonian Mechanics and relativistic mechanics perspective - Laws of Thermodynamics and Significance- Acoustic waves and electromagnetic waves- Electric and Magnetic fields and their interactions- Behaviour of atomic and nuclear particles- Wave-particle duality, the uncertainty principle- Theories and understanding of universe

UNIT III: ESSENTIALS OF CHEMISTRY: : 9hrs

Definition and Scope of Chemistry- Importance of Chemistry in daily life -Branches of chemistry and significance- Periodic Table- Electronic Configuration, chemical changes, classification of matter, Biomolecules- carbohydrates, proteins, fats and vitamins.

UNIT IV: APPLICATIONS OF MATHEMATICS, PHYSICS & CHEMISTRY: 9hrs

Applications of Mathematics in Physics & Chemistry: Calculus , Differential Equations & Complex Analysis

Application of Physics in Industry and Technology: Electronics and Semiconductor Industry, Robotics and Automation, Automotive and Aerospace Industries, Quality Control and Instrumentation, Environmental Monitoring and Sustainable Technologies.

Application of Chemistry in Industry and Technology: Chemical Manufacturing, Pharmaceuticals and Drug Discovery, Materials Science, Food and Beverage Industry.

UNIT V: ESSENTIALS OF COMPUTER SCIENCE:

Milestones of computer evolution - Internet, history, Internet Service Providers, Types of Networks, IP, Domain Name Services, applications.

Ethical and social implications: Network and security concepts- Information Assurance Fundamentals, Cryptography-Symmetric and Asymmetric, Malware, Firewalls, Fraud Techniques- Privacy and Data Protection

Recommended books:

1. Functions of one complex variable by John.B.Conway, Springer- Verlag.
2. Elementary Trigonometry by H.S.Hall and S.R.Knight
3. Vector Algebra by A.R.Vasishtha, Krishna Prakashan Media(P)Ltd. 4.Basic Statistics by B.L.Agarwal, New age international Publishers
4. University Physics with Modern Physics by Hugh D. Young and Roger A. Freedman
5. Fundamentals of Physics by David Halliday, Robert Resnick, and Jearl Walker
6. Physics for Scientists and Engineers with Modern Physics" by Raymond A. Serway and John W. Jewett Jr.
7. Physics for Technology and Engineering" by John Bird
8. Chemistry in daily life by Kirpal Singh
9. Chemistry of bio molecules by S. P. Bhutan
10. Fundamentals of Computers by V. Raja Raman
11. Cyber Security Essentials by James Graham, Richard Howard, Ryan Olson

06.08.2024

6/8/24.

STUDENT ACTIVITIES
UNIT I: ESSENTIALS OF MATHEMATICS:

1: Complex Number Exploration Provide students with a set of complex numbers in both rectangular and polar forms.They will plot the complex numbers on the complex plane and identify their properties

2: Trigonometric Ratios Problem Solving Give students a set of problems that require the calculation of trigonometric ratios and their relations.

Students will solve the problems using the appropriate trigonometric functions (sine, cosine, tangent, etc.) and trigonometric identities.

3: Vector Operations and Applications Provide students with a set of vectors in Cartesian form.

Students will perform vector addition and subtraction operations to find the resultant vectors. They will also calculate the scalar and vector products of given vectors.

4: Statistical Measures and Data Analysis Give students a dataset containing numerical values.

Students will calculate the mean, median, and mode of the data, as well as other statistical measures if appropriate (e.g., range, standard deviation).

They will interpret the results and analyze the central tendencies and distribution of the data.

UNIT II: ESSENTIALS OF PHYSICS:

Concept Mapping

Divide students into groups and assign each group one of the topics.

Students will create a concept map illustrating the key concepts, relationships, and applications related to their assigned topic.

Encourage students to use visual elements, arrows, and labels to represent connections and interdependencies between concepts.

Laboratory Experiment

Select a laboratory experiment related to one of the topics, such as motion of objects or electric and magnetic fields.

Provide the necessary materials, instructions, and safety guidelines for conducting the experiment.

Students will work in small groups to carry out the experiment, collect data, and analyze the results.

After the experiment, students will write a lab report summarizing their findings, observations, and conclusions.

UNIT III: ESSENTIALS OF CHEMISTRY

1: Chemistry in Daily Life Presentation

Divide students into groups and assign each group a specific aspect of daily life where chemistry plays a significant role, such as food and nutrition, household products, medicine, or environmental issues.

Students will research and create a presentation (e.g., PowerPoint, poster, or video) that showcases the importance of chemistry in their assigned aspect.

2: Periodic Table Exploration

Provide students with a copy of the periodic table.

Students will explore the periodic table and its significance in organizing elements based on their properties.

They will identify and analyze trends in atomic structure, such as electronic configuration, atomic size, and ionization energy.

3: Chemical Changes and Classification of Matter

Provide students with various substances and chemical reactions, such as mixing acids and bases or observing a combustion reaction.

Students will observe and describe the chemical changes that occur, including changes in color, temperature, or the formation of new substances.

4: Biomolecules Investigation

Assign each student or group a specific biomolecule category, such as carbohydrates, proteins, fats, or vitamins.

Students will research and gather information about their assigned biomolecule category, including its structure, functions, sources, and importance in the human body.

They can create informative posters or presentations to present their findings to the class.

UNIT IV: APPLICATIONS OF MATHEMATICS, PHYSICS & CHEMISTRY

1: Interdisciplinary Case Studies

Divide students into small groups and provide them with interdisciplinary case studies that involve the interdisciplinary application of mathematics, physics, and chemistry.

Each case study should present a real-world problem or scenario that requires the integration of concepts from all three disciplines.

2: Design and Innovation Project

Challenge students to design and develop a practical solution or innovation that integrates mathematics, physics, and chemistry principles.

Students can choose a specific problem or area of interest, such as renewable energy, environmental conservation, or materials science.

3: Laboratory Experiments

Assign students laboratory experiments that demonstrate the practical applications of mathematics, physics, and chemistry.

Examples include investigating the relationship between concentration and reaction rate, analyzing the behavior of electrical circuits, or measuring the properties of materials.

.4: Mathematical Modeling

Present students with real-world problems that require mathematical modeling and analysis.

UNIT V: ESSENTIALS OF COMPUTER SCIENCE:

Identifying the attributes of network (Topology, service provider, IP address and bandwidth of your college network) and prepare a report covering network architecture.

Identify the types of malwares and required firewalls to provide security.

Latest Fraud techniques used by hackers.

Madhavi
06.08.2024

6/8/24.

Course 2: ADVANCES IN MATHEMATICAL, PHYSICAL AND CHEMICAL SCIENCES

Hours: 5 hrs/week Credits: 4

I-Semester

Course Objective:

The objective of this course is to provide students with an in-depth understanding of the recent advances and cutting-edge research in mathematical, physical, and chemical sciences. The course aims to broaden students' knowledge beyond the foundational concepts and expose them to the latest developments in these disciplines, fostering critical thinking, research skills, and the ability to contribute to scientific advancements.

Learning outcomes:

Explore the applications of mathematics in various fields of physics and chemistry, to understand how mathematical concepts are used to model and solve real-world problems.

To Explain the basic principles and concepts underlying a broad range of fundamental areas of physics and to Connect their knowledge of physics to everyday situations.

Understand the different sources of renewable energy and their generation processes and advances in nanomaterials and their properties, with a focus on quantum dots. To study the emerging field of quantum communication and its potential applications. To gain an understanding of the principles of biophysics in studying biological systems. Explore the properties and applications of shape memory materials.

Understand the principles and techniques used in computer-aided drug design and drug delivery systems, to understand the fabrication techniques and working principles of nanosensors. Explore the effects of chemical pollutants on ecosystems and human health.

Understand the interplay and connections between mathematics, physics, and chemistry in various advanced applications. Recognize how mathematical models and physical and chemical principles can be used to explain and predict phenomena in different contexts.

5 Understand and convert between different number systems, such as binary, octal, decimal, and hexadecimal. Differentiate between analog and digital signals and understand their characteristics.Gain knowledge of different types of transmission media, such as wired (e.g., copper cables, fiber optics) and wireless (e.g., radio waves, microwave, satellite)..

UNIT I: ADVANCES IN BASICS MATHEMATICS 9hrs

Straight Lines: Different forms – Reduction of general equation into various forms –Point of intersection of two straight lines

Limits and Differentiation: Standard limits – Derivative of a function –Problems on product rule and quotient rule

Integration: Integration as a reverse process of differentiation – Basic methods of integration

Matrices: Types of matrices – Scalar multiple of a matrix – Multiplication of matrices – Transpose of a matrix and determinants

UNIT II: ADVANCES IN PHYSICS: 9hrs

Renewable energy: Generation, energy storage, and energy-efficient materials and devices. Recent advances in the field of nanotechnology: Quantum dots, Quantum Communication- recent advances in biophysics- recent advances in medical physics- Shape Memory Materials.

UNIT III: ADVANCES IN CHEMISTRY: 9hrs

Computer aided drug design and delivery, nano sensors, Chemical Biology, impact of chemical pollutants on ecosystems and human health, Dye removal - Catalysis method

UNIT IV: ADVANCED APPLICATIONS OF MATHEMATICS, PHYSICS & CHEMISTRY 9hrs

Mathematical Modelling applications in physics and chemistry Application of Renewable energy: Grid Integration and Smart Grids, Application of nanotechnology: Nanomedicine,

Application of biophysics: Biophysical Imaging, Biomechanics, Neurophysics,

Application of medical physics: Radiation Therapy, Nuclear medicine

Solid waste management, Environmental remediation- Green Technology, Water treatment.

UNIT V: Advanced Applications of computer Science 9hrs

Number System-Binary, Octal, decimal, and Hexadecimal, Signals-Analog, Digital, Modem, Codec, Multiplexing, Transmission media, error detection and correction- Parity check and CRC, Networking devices- Repeater, hub, bridge, switch, router, gateway.

Recommended books:

1. Coordinate Geometry by S.L.Lony, Arihant Publications
2. Calculus by Thomas and Finny, Pearson Publications
3. Matrices by A.R.Vasishtha and A.K.Vasishtha, Krishna Prakashan Media(P)Ltd.
4. "Renewable Energy: Power for a Sustainable Future" by Godfrey Boyle
5. "Energy Storage: A Nontechnical Guide" by Richard Baxter
6. "Nanotechnology: Principles and Applications" by Sulabha K. Kulkarni and Raghvendra A. Bohara
7. "Biophysics: An Introduction" by Rodney Cotterill

MODULE

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8. "Medical Physics: Imaging" by James G. Webster
9. "Shape Memory Alloys: Properties and Applications" by Dimitris C. Lagoudas
10. Nano materials and applications by M.N.Borah
11. Environmental Chemistry by Anil.K.D.E.
12. Digital Logic Design by Morris Mano
13. Data Communication & Networking by Bahrouz Forouzan.

STUDENT ACTIVITIES

UNIT I: ADVANCES IN BASIC MATHEMATICS

1: Straight Lines Exploration

Provide students with a set of equations representing straight lines in different forms, such as slope-intercept form, point-slope form, or general form.

Students will explore the properties and characteristics of straight lines, including their slopes, intercepts, and point of intersection.

2: Limits and Differentiation Problem Solving

Students will apply the concept of limits to solve various problems using standard limits.

Encourage students to interpret the results and make connections to real-world applications, such as analyzing rates of change or optimizing functions.

3: Integration Exploration

Students will explore the concept of integration as a reverse process of differentiation and apply basic methods of integration, such as the product rule, substitution method, or
integration by parts.

Students can discuss the significance of integration in various fields, such as physics and chemistry

4: Matrices Manipulation

Students will perform operations on matrices, including scalar multiplication, matrix multiplication, and matrix transpose.

Students can apply their knowledge of matrices to real-world applications, such as solving systems of equations or representing transformations in geometry.

UNIT II: ADVANCES IN PHYSICS:

1: Case Studies

Provide students with real-world case studies related to renewable energy, nanotechnology, biophysics, medical physics, or shape memory materials.

Students will analyze the case studies, identify the challenges or problems presented, and propose innovative solutions based on the recent advances in the respective field.

They will consider factors such as energy generation, energy storage, efficiency,
sustainability, materials design, biomedical applications, or technological advancements.

2: Experimental Design

Assign students to design and conduct experiments related to one of the topics: renewable energy, nanotechnology, biophysics, medical physics, or shape memory materials.

They will identify a specific research question or problem to investigate and design an experiment accordingly.

Students will collect and analyze data, interpret the results, and draw conclusions based on their findings.

They will discuss the implications of their experimental results in the context of recent advances in the field.

3: Group Discussion and Debate

Organize a group discussion or debate session where students will discuss the ethical, social, and environmental implications of the recent advances in renewable energy, nanotechnology, biophysics, medical physics, and shape memory materials.

Assign students specific roles, such as proponent, opponent, or moderator, and provide them with key points and arguments to support their positions.

UNIT III: ADVANCES IN CHEMISTRY:

Experimental Design and Simulation

In small groups, students will design experiments or simulations related to the assigned topic.

For example, in the context of computer-aided drug design, students could design a virtual screening experiment to identify potential drug candidates for a specific disease target.

For nano sensors, students could design an experiment to demonstrate the sensitivity and selectivity of nano sensors in detecting specific analytes.

Chemical biology-related activities could involve designing experiments to study enzyme- substrate interactions or molecular interactions in biological systems.

Students will perform their experiments or simulations, collect data, analyze the results, and draw conclusions based on their findings.

Case Studies and Discussion

Provide students with real-world case studies related to the impact of chemical pollutants on ecosystems and human health.

Students will analyze the case studies, identify the sources and effects of chemical pollutants, and propose mitigation strategies to minimize their impact.

Encourage discussions on the ethical and environmental considerations when dealing with chemical pollutants.

For the dye removal using the catalysis method, students can explore case studies where catalytic processes are used to degrade or remove dyes from wastewater.

Students will discuss the principles of catalysis, the advantages and limitations of the catalysis method, and its applications in environmental remediation.

3: Group Project

Assign students to work in groups to develop a project related to one of the topics.

The project could involve designing a computer-aided drug delivery system, developing a nano sensor for a specific application, or proposing strategies to mitigate the impact of chemical pollutants on ecosystems.

Students will develop a detailed project plan, conduct experiments or simulations, analyze data, and present their findings and recommendations.

Encourage creativity, critical thinking, and collaboration throughout the project.

UNIT IV: ADVANCED APPLICATIONS OF MATHEMATICS, PHYSICS & CHEMISTRY

1: Mathematical Modelling Experiment

Provide students with a mathematical modelling experiment related to one of the topics. For example, in the context of renewable energy, students can develop a mathematical model to optimize the placement and configuration of solar panels in a solar farm.

Students will work in teams to design and conduct the experiment, collect data, and analyze the results using mathematical models and statistical techniques.

They will discuss the accuracy and limitations of their model, propose improvements, and

interpret the implications of their findings in the context of renewable energy or the specific application area.

2: Case Studies and Group Discussions

Assign students to analyze case studies related to the applications of mathematical modelling in nanotechnology, biophysics, medical physics, solid waste management, environmental remediation, or water treatment.

Students will discuss the mathematical models and computational methods used in the case studies, analyze the outcomes, and evaluate the effectiveness of the modelling approach.

Encourage group discussions on the challenges, ethical considerations, and potential advancements in the field.

Students will present their findings and engage in critical discussions on the advantages and limitations of mathematical modelling in solving complex problems in these areas.

Group Project

Assign students to work in groups to develop a group project that integrates mathematical modelling with one of the application areas: renewable energy, nanotechnology, biophysics, medical physics, solid waste management, environmental remediation, or water treatment.

The project could involve developing a mathematical model to optimize the delivery of radiation therapy in medical physics or designing a mathematical model to optimize waste management practices.

Students will plan and execute their project, apply mathematical modelling techniques, analyze the results, and present their findings and recommendations.

Encourage creativity, critical thinking, and collaboration throughout the project.

UNIT V: Advanced Applications of computer Science

Students must be able to convert numbers from other number system to binary number systems

Identify the networking media used for your college network

Identify all the networking devices used in your college premises.

FIRST-LANGUAGE

SEMESTER-I

COURSE1: A COURSE IN COMMUNICATION AND SOFT SKILLS

Theory Credits:3 4hrs/week

Objectives

- To make students acquire listening and speaking kills
- To improve vocabulary and syntax
- To reinforce basic grammatical knowledge
- To provide sufficient awareness on speech mechanisms of English speech sounds.

Outcomes

By the end of the course the learner will be able to:

- Understand the importance of listening and practice effective listening.
- Use grammar effectively for accuracy in writing and speaking.
- Use relevant vocabulary in every day communication.
- Acquire ability to use Soft Skills in professional and daily life.
- Confidently use the skills of communication.

I. UNIT: Phonetics

a. Sounds of English: Vowels and Consonants
b. Syllable
c. Word Stress & Intonation

II. UNIT: Grammar

a. Concord
b. Articles
c. Prepositions
d. Tenses
e. Question tags
f. Common errors

III. UNIT: Listening Skills

a. Importance of Listening
b. Types of Listening
c. Barriers to Listening
d. Effective Listening

IV. UNIT: Speaking Skills

a. Greetings & Introduction
b. Asking and Giving Information
c. Charlie Chaplin Dictator Speech
d. Agreeing/Disagreeing
e. A Leader Should Know How to Manage Failure Dr A.P.J. Abdul Kalam

V. UNIT: Soft Skills

a. SWOC/T
b. Public Speaking & Presentation Skills
c. Emotional Intelligence
d. Decision Making &Team Building
e. Intra & Inter personal Skills
f. Netiquette

References:

1. Soft Skills, Dr. Alex (New Delhi: S. Chand & Company Ltd)2009.
2. Interpersonal Skills Training, Philip Burnard (New Delhi:Viva Books Private Ltd)
3. Soft Skills for Everyone, Jeff Butter field (New Delhi: Cengage Learning India Pvt Ltd) 2012
4. Emotional Intelligence, Daniel Goleman (London: Blooms bury Publishing)1996
5. A Text Book of English Phonetics for Indian Students, Bala subramanian
6. A Hand book for English Language Labor, E.SureshKumar ,P.Sreehari
7. Communication Skills (2ndEdition),Sanjay Kumar & PushpLata, Oxford University Press, 2016.
8. English Conversation Practice by Grand Taylor, McMillan Publishers.

Activities:

Make the students listen to news excerpts.
Watch interviews and speeches on YouTube.
Role plays on formal and informal conversations.

SECOND-LANGUAGES

GENERAL HINDI

SEMESTER. -I

हिन्दी गद्य साहित्य

Theory. **Credits - 3.** **4hrs/week**

Units: 5

Periods: 60

लक्ष्य:

१. विद्यार्थियों को गद्य की विविध विधाओं से परिचित करवाना ।

२. हिन्दी भाषा के विशिष्ट साहित्यकारो का परिचय उनकी रचनाओं की विशिष्टता का ज्ञान प्राप्त कर पाना।

३. हिन्दी साहित्य के संक्षिप्त इतिहास से परिचित करवाना ।

४. हिन्दी व्याकिण की सभी पिलुओं पि विद्यार्थियों को विशद रूप अध्ययन कराना, क्यों कि व्याकरण ही भाषा की रीढ़ होती है

५. विद्यार्थियों को पत्र लेखन के आवश्यक नियमों से अवगत कराना, शिष्ट भाषा का प्रयोग एवं प्रभावपूर्ण लेखन विधि से परिचित करवाना|

Unit-I

१.मित्रता - आचार्य रामचंद्र शुक्ल
२.साहित्य की महत्ता - महावीर प्रसाद द्विवेदी
३.बिंदा - महादेवी वर्मा

Unit-II

१.मुक्तिधन - प्रेमचन्द
२. प्रस्कार - जयशंकर प्रसाद
३. और वह पढ़ गई - डॉ कुसुम वियोगी

Unit -III

१.हिन्दी साहित्य का इततिास -सामान्य परिचय

२.काल विभाजन

Unit - IV

१. कार्यालयीन शब्दावली (अंग्रेजी से हिन्दी, हिन्दी से अंग्रेजी)
२. लिंग
३. वचन
४. काल
५. विलोम शब्द

Unit - V

पत्र लेखन

१. व्यक्तिगत पत्र
२. आवेदन पत्र (छुट्टी पत्र, पिता जी के नाम पर पत्र, मित्र के नाम पर पत्र, प्राध्यापक पद केलिए आवेदन पत्र, अनुवादक पद केलिए आवेदन पत्र)

परिणाम: पाठ्यक्रम के सफल समापन के उपरांत विद्यार्थी निम्न विषयों में रक्षम होंगे ।

१. निबंध , रेखाचित्र , किानी जैसी गद्य की विभिन्न विधाओं को समझ पाना एवं विश्लेषण कर पाना।

२. सच्चे मित्र के गुणों से अवगत हो पाना,जो की स्नातक स्तर के विद्यार्थियों केलिए अति आवश्यक है

३. पठित रचनाओं में दर्शित सामाजिक , ऐतिहासिक , सांस्कृतिक आदि संदभों का मूलयांकन कि पाना।

४. धारमिक सहिष्णुता,देश प्रेम आदी उत्तम भावनाओ को जागृत कर पाना।

५. हिन्दीसाहित्येतिहस के संक्षिप्त अध्ययन से विविध काल एवं तत्कालीन परिस्थितियों से अवगत होना।

६. व्याकरर्णिक इकाइयों की समझ एवं प्रभावपूर्ण पत्र लेखन का ज्ञान अर्जित कर सकना।

(Implemented from Acadamic Year 2024-2025)
PROGRAMME: BA/BCA/B.COM/BBA/B.SC (Honours)
Major Subject: SANSKRIT
SEMESTER - I

POETRY, PROSE & GRAMMER -11

I. Learning Outcomes;

1. प्राचीन संस्कृतसाहित्य स्वरूप परिज्ञानम् भवति 1
2. आधुनिक संस्कृतसाहित्य अवरूप परिज्ञानम् भवति 1
3. मौलिक व्याकरण परिचयः भवति 1

II. Syllabus: (Teaching Hours: 45)

Unit - 1: प्राचीन पध्य साहित्यम् (9h)

1. धनुर्भङ्गः - श्रीमद्रामायणे बालकाण्डे 67 सर्गः 32 अध्यायः
2. शरणागतरक्षणं - श्रीमहाभारते अनुशासनपर्वणि 32 अध्यायः

Unit - 2: आधुनिक पध्य साहित्यम् (9h)

1. महोदयः - मुल्लपूडि नारायणशास्त्रिणः पुत्रसंजीवन काव्ये 2 सर्गः
2. रामकीर्तिः - सत्यव्रतशास्त्रिणः श्रीरामकीर्ति महाकाव्ये 1 सर्गः

Unit - 3: गध्य साहित्यम् (9h)

1. खलोक्तिः - हितोपदेशे सन्धि परिच्छेदात्
2. लोकमान्यः - श्रीरामनाथशास्त्रिकृतः निबन्धः

Unit - 4: व्याकरणम् (9h)

1. अजन्त शब्दाः (देव, कवि, भानु, धातृ, पितृ, गो, रमा, मति)
2. धातवः (भू , गम् , स्था, दृशिर, लभ्, मृद्, अस्, भाष)

Unit - 5: व्याकरणम् (9h)

1. सन्धयः (अच् - हल् सन्धयः)
2. समासाः (द्वन्द्व, तत्पुरुष, कर्मधारय, द्विगु)

III. Skill Outcomes:

On succesfulcompletion of this course, student shall be able to:

1. साहित्यकार, ऋषि, कवि हृदय विवेचनम् भवति 1
2. मानवीयमूल्यसम्पदनाभिलाषः भवति 1
3. मौलिकाव्यव्याकरणज्ञानेन प्रयोग अर्थात् पठन लेखन वेलासु भाषाशुद्धयै प्रयत्नः भवति 1

IV. References:

1. Prescribed Sanskrit Text Book1

V. Co-Curricular Activites: (Hours for Activity: 15h)

1. Assignments
2. Seminars, Group discussions, Quiz, Debates etc.
3. Invited lectures and presentations on related topics by experts.

SEMESTER 1 QUESTION PAPER PATTERN

प्रश्नपत्रप्रणाली

Time : 3 Hours (Max. Marks : 70

सूचना (NOTE) : Q. No 2.3.4.5 & 10 should be answerd in Sanskrit only.

प्रथमो भागः (20

1. श्लोकपूरणं भाव लेखनं च 1	2 Out of 4	2 x 2=4 M
2. शब्दाः	2 Out of 4	2 x 2=4 M
3. धातवः	2 Out of 4	2 x 2=4 M
4. सन्धिः	2 Out of 4	2 x 2=4 M
5. समासाः	2 Out of 4	2 x 2=4 M
		20 M

द्वितीय भागः (50 Marks)

6. आन्ध्रभाषायां वा आङ्ग्लभाषायां वा अवुवदत्त	2 Out of 4	2 x 3=6 M
7. निबन्धप्रश्नः	1 Out of 2	1 x 8=8 M
8. निबन्धप्रश्नः	1 Out of 2	1 x 8=8 M
9. निबन्धप्रश्नः	1 Out of 2	1 x 8=8 M
10. लघुप्रश्नाः	4 Out of 8	4 x 2=8 M
11. संदर्भवाक्यानि	4 Out of 8	4 x 3=12M
		50 M

प्रथमभागः -	20 M	Internal Assessment Mid – Sem -	20
द्वितीयभागः -	50 M	Assignment / Seminor -	5
अन्तर्गतपरीक्ष -	30 M	Attendance -	5
	100 M		30 M

SEMESTER-I

COURSE 1: సాహితీ సౌరభం

Theory Credits:3 4 hrs/week

- **అభ్యసన లక్ష్యాలు**

యూనిట్ల సంఖ్య 5

పీరియడ్ల సంఖ్య: 60

1. తెలుగు సాహిత్యం యొక్క ప్రాచీనతను, విశిష్టతను గుర్తించడం

ఆదికవి నన్నయ కాలంనాటి భాషా, సంస్కృతులను పరిచయం చేయడం

2. జాషువా కాలంనాటి మతపరిస్థితులు, గబ్బిలం కావ్య విశేషాలు తెలియజేయడం ద్వారా సమాజం పట్ల అవగాహన పెంపొందింపజేయడం

3. సంపన్న కుటుంబాలలోని పరిస్థితులు, ప్రేమ, పరువు వంటివి మనిషిని ఎలా నడిపిస్తాయో అవగాహన కల్పించడం

4. జమీందారీ వ్యవస్థ ఎలా బీటలు వారుతుందో, మన సమాజంలో పెట్టుబడిదారీ బీజాలు ఎలా నాటుకున్నాయో అర్థం చేసుకోవడంతో పాటు మన పల్లెటూళ్లు, మానవ సంబంధాలు, ఆస్తి అంతస్తులు వికృత రూపంలో ఎలా సాక్షాత్కరిస్తాయో తెలియజేయడం

5. జీవిత చరిత్ర ప్రక్రియను, దాని విశిష్టతను పరిచయం చేయడం

6. ప్రాచీన కావ్యభాషలోని వ్యాకరణాంశాలను అధ్యయనం చేయడం

వ్యాకరణాంశాల ద్వారా భాషాసామర్థ్యాన్ని పెంపొందింపజేయడం

పాఠ్య ప్రణాళిక

యూనిట్ -I (ప్రాచీన కవిత్వం)

రాజనీతి – నన్నయ్య - ఆంధ్ర మహాభారతం – సభాపర్వం – ప్రథమాశ్వాసం (26-57 పద్యాలు)

- నన్నయ్య - కవి పరిచయం
- రాజనీతి - పాఠ్యాంశ ఇతివృత్తం
- ప్రజాపాలన – నాడు, నేడు
- రాజనీతి పాఠ్యాంశ సందేశం

యూనిట్ -II (ఆధునిక కవిత్వం)

గబ్బిలం - జాషువా - ప్రథమ భాగం (1-40 పద్యాల వరకు)

- గుర్రం జాషువా-కవి పరిచయం, కవిత శైలి
- కావ్య రచనా నేపథ్యం
- గబ్బిలం పాఠ్యాంశ ఇతివృత్తం
- పాఠ్యాంశ సందేశం

<u>యూనిట్-III</u> (కథానిక)

అలరాస పుట్టిళ్ళు-కళ్యాణ సుందరీ జగన్నాథ్

- రచయిత్రి పరిచయం
- కథా నేపథ్యం, సందేశం
- కథాంశం
- పాత్ర చిత్రణ

<u>యూనిట్-IV</u> (నవల)

అసమర్థుని జీవనయాత్ర - గోపీచంద్

- గోపీచంద్-రచయిత పరిచయం
- నవల నేపథ్యం
- నవల ఇతివృత్తం, పాత్ర చిత్రణ
- నవలా సందేశం

<u>యూనిట్-V</u> (జీవిత చరిత్ర)

మూడు వాఙ్మయ శిఖరాలు

- సి.పిబ్రౌన్- పరిచయం -సాహిత్య కృషి.
- ప్రజాకవి వేమన పరిచయం - సాంఘిక దృక్పథం
- పోతులూరి వీరబ్రహ్మం పరిచయం-సంఘ సంస్కరణ

<u>వ్యాకరణం</u>

సంధులు, అత్త, ఇత్వ, త్రిక, సరళాదేశ, గసడవాదేశ, ద్విరుక్తటకార, సవర్ణదీర్ఘ, గుణ, యణాదేశ, వృద్ధి సంధులు

సమాసాలు: అవ్యయీభావ, తత్పురుష, కర్మధారయ ద్వంద్వ, ద్విగు, బహువ్రీహి

అర్థాలంకారాలు: ఉపమ, ఉత్ప్రేక్ష, రూపక, స్వభావోక్తి, అర్థాంతర వ్యాస, అతిశయోక్తి, శ్లేష,

శబ్దాలంకారాలు: వృత్యనుప్రాస, చేకానుప్రాస, లాటానుప్రాస, అంత్యానుప్రాస

వృత్తాలు : ఉత్పలమాల, చంపకమాల, శార్దూలము, మత్తేభము.

జాతులు: కందం, ద్విపద

ఉపజాతులు: ఆటవెలది, తేటగీతి, సీసం

ముత్యాలసరాలు

- <u>ఆధార గ్రంథాలు</u>

1. శ్రీమదాంధ్ర మహాభారతముసభాపర్వము తిరుమల తిరుపతి దేవస్థానం ప్రచురణ
2. గబ్బిలం-జాషువ
3. అలరాస పుట్టిళ్లు-కళ్యాణ సుందరీ జగన్నాథ్
4. అసమర్థుని జీవనయాత్ర-త్రిపురనేని గోపిచంద్
5. మూడు వాఙ్మయ శిఖరాలు-
   - సి.పి.బ్రౌన్- సి.యస్.గోపాలక్రిష్ణ
   - ప్రజాకవి వేమన-ఎన్.గోపి.
   - సి.బి.బ్రౌన్ గ్రంథాలయ ప్రచురణ వ్యాసాలు
   - పోతులూరి వీరబ్రహ్మం తాత్త్విక దార్శనికత

- మూలమల్లికార్జున రెడ్డి:

సూచించబడిన సహపాఠ్య కార్యక్రమాలు:

1.నన్నయ్య, తిక్కన, ఎఱ్ఱన మొదలైన ప్రసిద్ధ కవుల పాఠ్యాంశేతర పద్యాలను ఇచ్చి, విద్యార్థులచేత సమీక్షలు రాయించడం; ఆయా పద్యాల్లోని యతిప్రాసాది ఛందోవిశేషాలను గుర్తింపజేయడం.

2. విద్యార్థులచేత పాఠ్యాంశాలకు సంబంధించిన వ్యాసాలు రాయించడం (సెమినార్/అసైన్మెంట్)
3. ప్రాచీన పాఠ్యాంశాలలోని సమకాలీనతను గూర్చిన బృంద చర్చ, ప్రాచీన సాహిత్యాన్ని నేటి సామాజిక దృష్టితో పునర్మూల్యాంకనం చేయించడం.
4. చారిత్రిక, సాంస్కృతిక అంశాలకు సంబంధించిన పర్యాటక ప్రదేశాలను సందర్శించడం.
5. వ్యక్తిగత/బృంద ప్రాజెక్టులు చేయించడం.

- **అభ్యసన ఫలితాలు**

ఈ కోర్సు విజయవంతంగా ముగించాక, విద్యార్థులు క్రింది అభ్యసన ఫలితాలను పొందగలరు.

1. తెలుగు సాహిత్యం యొక్క ప్రాచీనతను, విశిష్టతను గుర్తిస్తారు. ఆదికవి నన్నయ కాలంనాటి భాషాసంస్కృతులను, ఇతిహాసకాలం నాటి రాజనీతి విషయాలపట్ల పరిజ్ఞానాన్ని సంపాదించగలరు. ప్రాచీన కావ్యభాషలోని వ్యాకరణాంశాలను అధ్యయనం చేయడం ద్వారా భాషాసామర్థ్యాన్ని, రచనలు మెళకువలను గ్రహించగలరు.
2. జాషువా కాలంనాటి మతపరిస్థితులను, గబ్బిలం కావ్య విశేషాలను గ్రహిస్తారు. తెలుగు నుడికారం, సామెతలు, లోకోక్తులు మొదలైన భాషాంశాల పట్ల పరిజ్ఞానాన్ని పొందగలరు.
3. అలరాస పుట్టిళ్లు కథా నేపథ్యాన్ని, సంపన్న కుటుంబాలలోని పరిస్థితులను, ప్రేమ, పరువు వంటివి మనిషిని ఎలా నడిపిస్తాయో అవగాహన చేసుకోవడంతో పాటు కథా రచన ఎలా చేయాలో తెలుసుకుంటారు.
4. అసమర్థుని జీవయాత్ర రచనలో అప్పటి మన పల్లెటూళ్లు, మానవ సంబంధాలు, ఆస్తి అంతస్తులు వికృత రూపంలో ఎలా సాక్షాత్కరిస్తాయో, జమీందారీ వ్యవస్థ ఎలా బీటలు వారుతుందో, మన సమాజంలో పెట్టుబడిదారీ బీజాలు ఎలా నాటుకున్నాయో విద్యార్థి తెలుసుకుంటాడు. ఒక తరం జీవితాన్ని కళ్లకు కట్టే మనోవైజ్ఞానిక నవలగా పేరు పొందిన అసమర్థుని జీవయాత్ర విద్యార్థి వ్యక్తిత్వ వికాసానికి దోహదం చేస్తుంది.
5. వేటూరి ప్రభాకర శాస్త్రి, నిడదవోలు వేంకటరావు, మానవల్లి రామకృష్ణ కవి వంటి ప్రముఖుల జీవిత చరిత్రలను తిరుమల రామచంద్ర ఎలా రాశారో అధ్యయనం చేయడంతోపాటు జీవిత చరిత్ర ప్రక్రియను ఎలా రచించాలో తెలుసుకుంటారు.
6. ప్రాచీన కావ్యభాషలోని వ్యాకరణాంశాలను అధ్యయనం చేయడం ద్వారా భాషాసామర్థ్యం పెంపొందుతుంది.

Syllabus for (B.A./ B.Com. / B.Sc.) U.G. under CBCS
Second Language – Urdu
First year Degree Course Second Language Part - 1(b)

Paper – I: URDU POETRY

SEMESTER - I

UNIT – I
1. GHAZAL MEER – *Raah-e-Daur-e-Ishq me Roota hai kya*
2.GAZAL KI TAREEF
3. NAZM Nazeer Akbarabadi – *Kaljug*

UNIT – II
1. GHAZAL GHALIB – *Dard Minnat kash-e-Dawa na hua*
2. NAZM SHIBLI – *Adl-e-Farooqi*
3.NAZAM KI TAREEF

UNIT – III
1. GHAZAL MOMIN – *Who jo Hum me Tum me Qaraar tha*
2. NAZM IQBAL – *Chaand aur Tare*

UNIT – IV
1. GHAZAL DAGH DEHLAVI – *Duniya me Aadmi ko Museebat Kahan nahi*
2. NAZM AKBAR – *Naseehat-e-Akhlaqi*

UNIT – V
1. GHAZAL JIGAR MURADABADI – *Koi Ye Kehde Gulshan Gulshan*
2. NAZM FAIZ – *Lauh-o-Qalam*

SUGGESTED READING:

1. Urdu Shairy Ka Fanni Irteqa – Farman Fatehpoor Urdu Ghazal – Kaamil Quraishi
2. Urdu Shairi Ka Tanqeedi Muta'a – Sumbul Nigaar

SKILL-COURSES

SKILL COURSE

w.e.f. AY 2023-24

SEMESTER-I

ENTREPRENEURSHIP DEVELOPMENT

Theory Credits: 2 2 hrs/week

Course Objective: A Generic Course that is intended to inculcate an integrated personal Life Skill tothe student.

Learning Outcomes:

After successful completion of the course the student will be able to;

- Understand the concept of Entrepreneurship, its applications and scope.
- Know various types of financial institutions that help the business at Central, State and LocalLevel
- Understand Central and State Government policies, Aware of various tax incentives,concessions
- Applies the knowledge for generating a broad idea for a starting an enterprise/start up
- Understand the content for preparing a Project Report for a start up and differentiate betweenfinancial, technical analysis and business feasibility.

Syllabus:

Unit-I: Entrepreneurship: Definition and Concept of entrepreneurship - Entrepreneur Characteristics
– Classification of Entrepreneurs –Role of Entrepreneurship in Economic Development –Start-ups.

Unit-II: Idea Generation and Project Formulation: Ideas in Entrepreneurships – Sources of NewIdeas – Techniques for Generating Ideas – Preparation of Project Report –Contents; Guidelines for Report preparation – Project Appraisal Techniques –Economic Analysis-Financial Analysis-Market Analysis.

Unit-III: Institutions Supporting and Taxation Benefits: Central level Institutions: NABARD; SIDBI,– State Level Institutions –DICs – SFC - Government Policy for MSMEs - Tax Incentives and Concessions.

Reference Books:

1. Arya Kumar, Entrepreneurship, Pearson, Delhi
2. Poornima MCH, Entrepreneurship Development –Small Business Enterprises, Pearson, Delhi
3. Sangeetha Sharma, Entrepreneurship Development, PHI Learning
4. Kanishka Bedi, Management and Entrepreneurship, Oxford University Press, Delhi
5. Anil Kumar, S., ET.al., Entrepreneurship Development, New Age International Publishers, NewDelhi
6. Khanka, SS, Entrepreneurship Development, S. Chand, New Delhi
7. Peter F. Drucker, Innovation and Entrepreneurship
8. A. Sahay, M. S. Chhikara, New Vistas of Entrepreneurship: Challenges &Opportunities
9. Dr. B E V L Naidu, Entrepreneurship. Seven Hills Publishers

Suggested Co-Curricular Activities (As far as possible)

1. Group Discussion
2. Debate
3. Seminar
4. Visit to an SSI and preparing of an outline Report
5. Invited Lecture by a Bank Employee on the Bank Support to a Start Up.
6. Chart showing tax concessions to SSI, MSME both direct and indirect.

SKILL COURSE

w.e.f. AY 2023-24

SEMESTER-I

LEADERSHIP SKILLS

Theory Credits: 2 2 hrs/week

Learning Outcomes:

By successful completion of the course, students will be able to:

1. Develop comprehensive understanding of personality
2. Know how to assess and enhance one's own personality
3. Comprehend leadership qualities and their importance
4. Understand how to develop leadership qualities

Syllabus:

Unit – I:

Meaning of Personality – Explanations of Human Personality – Psychodynamic Explanations – Social Cognitive Explanation – Big Five traits of Personality

Unit – II:

Assessment of Personality - Projective& Self Report Techniques - Building Self-Confidence – Enhancing Personality Skills

Unit – III:

Leadership Characteristics – Types of Leaders – Importance of Leadership – Leadership Skills – Building and Leading Efficient Teams – Leadership Qualities of Abraham Lincoln, mahatma Gandhi, Prakasam Pantulu, Dr. B. R. Ambedkar & J.R.D.Tata

Co-curricular Activities Suggested:

1. Assignments, Group discussions, Quiz etc.,
2. Invited Lecture by a local expert
3. Case Studies (ex., on students behavior, local leaders etc.)

Reference Books:

- Girish Batra, Experiments in Leadership, Chennai: Notion Press, 2018
- Mitesh Khatri, Awaken the Leader in You, Mumbai: Jaico Publishing House, 2013
- Carnegie Dale, Become an Effective Leader, New Delhi: Amaryllis, 2012
- Hall, C.S., Lindzey. G. & Campbell, J.B Theories of Personality. John Wiley & Sons,1998

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SKILL COURSE

w.e.f. AY 2023-24

SEMESTER-I

ANALYTICAL SKILLS

Theory Credits: 2 2 hrs/week

Course Objective: Intended to inculcate quantitative analytical skills and reasoning as an inherent abilityin students.

Course Outcomes:

After successful completion of this course, the student will be able to;

1. Understand the basic concepts of arithmetic ability, quantitative ability, logical reasoning, businesscomputations and data interpretation and obtain the associated skills.
2. Acquire competency in the use of verbal reasoning.
3. Apply the skills and competencies acquired in the related areas
4. Solve problems pertaining to quantitative ability, logical reasoning and verbal ability inside and outsidethe campus.

UNIT – 1:

Arithmetic ability: Algebraic operations BODMAS, Fractions, Divisibility rules, LCM & GCD (HCF).

Verbal Reasoning: Number Series, Coding & Decoding, Blood relationship, Clocks, Calendars.

UNIT – 2:

Quantitative aptitude: Averages, Ratio and proportion, Problems on ages, Time-distance – speed.

Business computations: Percentages, Profit & loss, Partnership, simple compound interest.

UNIT – 3:

Data Interpretation: Tabulation, Bar Graphs, Pie Charts, line Graphs. Venn diagrams.

Recommended Co-Curricular Activities

Surprise tests / Viva-Voice / Problem solving/Group discussion.

Text Book:

Quantitative Aptitude for Competitive Examination by R.S. Agrawal, S.Chand Publications.

Reference Books

1. Analytical skills by Showick Thorpe, published by S Chand And Company Limited, Ramnagar,New Delhi-110055
2. Quantitative Aptitude and Reasoning by R V Praveen, PHI publishers.
3. Quantitative Aptitude for Competitive Examination by Abhijit Guha, Tata Mc Graw HillPublications.

6/8/24.

06.08.2024

SRI HARI DEGREE COLLEGE : AUTONOMOUS

Courses Offered for All Groups

LIFE SKILLS COURSES

w.e.f. AY 2023-24
SEMESTER-I
COURSE 3: ANALYTICAL SKILLS

Time: 3 hrs **Max. Marks 50**

Model Question Paper

Answer all Questions **25 X 2 = 50 M**

1. Find the LCM of 16, 24, 36 and 54

   a. 81 b. 21 c. 22 d. None

2. Find the HCF of 513, 1134 and 1215

   a. 24 b. 432 c. 423 d. None

3. Evaluate 11.11 + 111.1 + 1111.11

   a. 1233.23 b. 1322.32 c. 1233.32 d. 1322.23

4. 4368 + 2158 – 596 - ? = 3421 + 1262

   a. 1247 b. 1427 c. 1347 d. 1847

5. 4, 9, 16, ____, 36, 49

   a. 24 b. 46 c. 25 d. None

6. If in a certain code CORPORATIONS is written as PROCTAROSNOI, then how is JUDICAL written in that code

   a. IDUJLAIC b. UJIDLAIC c. UJIDICLA d. IDUJICLA

7. What day of the week was 15th August 1997

   a. Saturday b. Monday c. Sunday d. Friday

8. The angle between the minute hand and the hour hand of a clock when the time is 8:30 is

   a. 80° b. 75° c. 60° d. 105°

9. If BOWLER is coded as CPXMFS will be coded as GROUND

   a. HSPUOE b. HSPVDE c. HSPVDF d. None

10. Find the average of 10, 15, 25, 30

    a. 20 b. 30 c. 15 d. 25

11. 70% of 320 + 45% of 240

    a. 334 b. 232 c. 332 d. None

12. A gold bracelet if sold for ₹ 14,500 at a loss of 20%. What is the cost price of the gold bracelet.

a. 18126 b. 18125 c. 11284 d. 14825

13. If 7:x = 17.5 : 22.5 then find the value of x

a. 8 b. 7 c. 4 d. 9

14. A train travels 82.6 km/hr. How many meters will it travel in 15 minutes

a. 2060m b. 26050m c. 25060m d. None

15. Find the simple interest on ₹ 68,000 at $16\frac{2}{3}$ % per annum for 9 months

a. ₹ 8500 b. ₹ 8600 c. ₹ 9600 d. ₹ 9500

16. A sum of simple interest at $13\frac{1}{2}$ % per annum amount to ₹ 2502.50 after 4 years. Find the sum.

a. ₹ 1265 b. ₹ 1625 c. ₹ 1725 d. ₹ 1275

17. A Cyclist covers a distance at 750m in 2 min 30 sec. What is the speed in Km/hr of the cyclist.

a. 18 km/hr b. 17 km/hr c. 16km/hr d. 15km/hr

Directions (Questions 18 to 21): Study the table and answer the given questions.
Number of members in 5 book clubs during 5 given years:

Year / Book Club	2006	2007	2008	2009	2010
M	189	133	169	113	189
N	125	164	205	129	187
O	121	120	189	178	195
P	147	167	145	147	123
Q	129	234	154	169	177

18. Number of members in book club O increased by what percent from 2007 to 2010?

a. 65 b. 64.5 c. 58 d. 62.5 e. 56.5

19. What is the difference between total number of members in book clubs O and P together in 2006 and that in book clubs M and N together in 2008?

a. 98 b. 94 c. 96 d. 104 e. 106

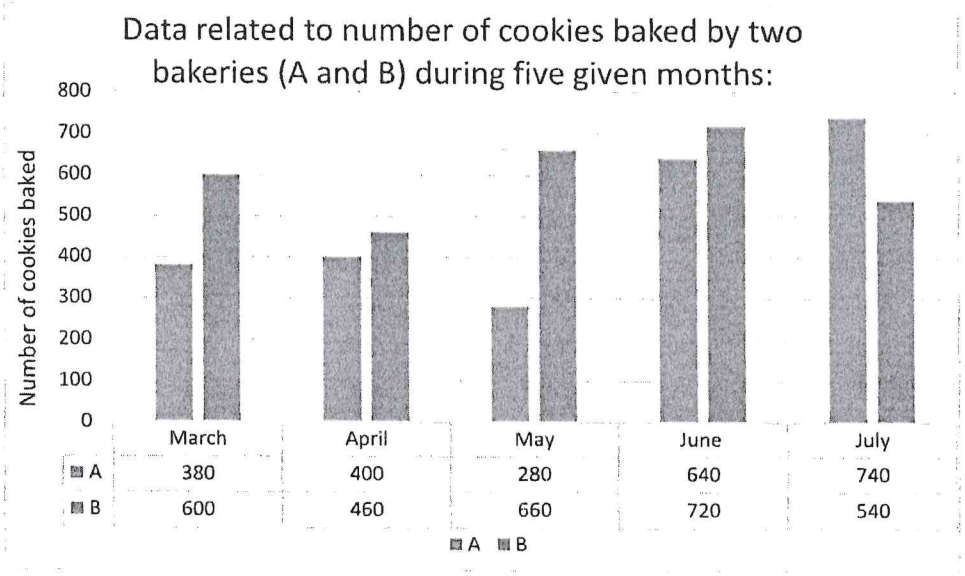
20. What is respective ratio between total number of members in book club M in 2006 and 2010 together and that in book club Q in the same years together ?

a. 21 : 17 b. 21 : 19 c. 19 : 17 d. 23 : 19 e. 23 : 17

21. What is the average number of members in book clubs M, N and Q in 2007?

a. 179 b. 181 c. 177 d. 183 e. 173

22. Directions (Questions 22-25): Study the bar graph and answer the questions that follow.



22. Number of Cookies baked by bakery B in June is approximately what percent of the total number of cookies baked by the same bakery in March and May together?

a. 63 b. 45 c. 70 d. 51 e. 57

23. If the total number of cookies baked by bakeries A and B together in September is 25% less than the total number of cookies baked by the same bakeries together in July, What is the total number of cookies baked by the same bakeries together in September ?

a. 1020 b. 960 c. 920 d. 940 e. 1080

24. Bakeries A and B bake only two types of cookies – Chocolate cookies and vanilla cookies. If the respective ratio of total number of chocolate cookies to total number of vanilla cookies baked by bakeries A and B together in June is 13 : 7, What is the total number of Vanilla cookies baked by bakeries A and B together in June ?

a. 490 b. 509 c. 462 d. 518 e. 476

25. What is the difference between average number of cookies baked by bakery A in March and May together and average number of cookies baked by bakery B in April and June together?

a. 240 b. 300 c. 260 d. 280 e. 320

Madhavi
06.08.2024

6/8/24.

SKILL COURSE

w.e.f. AY 2023-24

SEMESTER-I

COMMUNICATION SKILLS

Theory Credits: 2 2 hrs/week

Course Objectives & Outcomes:

Upon the completion of the course the students will be able to:

- Understand the nature importance of communication.
- Learn the process involved in communication.
- Develop interview skills.
- Acquire presentation skills.
- Effectively play their roles in group discussions.
- Enhance the skills of public speaking.

Course Content:

UNIT-I

BASICS OF COMMUNICATION

1. Nature and importance of communication
2. Process of Communication
3. Principles of communication
4. Barriers to effective communication
5. Strategies for effective communication

UNIT-II

PRESENTATION SKILLS

1. Preparation of a good presentation
2. Verbal communication in presentation
3. Non-verbal communication in presentation
4. Visual aids/Materials in presentation
5. Analyzing audience and managing questions

UNIT- III

INTERVIEWS AND GROUP DISCUSSIONS

1. Interview and its types
2. Before, during and after an interview
3. Do's and Don'ts in an interview
4. Basic Interview questions
5. Structure and process of Group Discussions
6. Role functions, Do's and Don'ts

Recommended Activities:

- Presenting seminar papers.
- Mock interviews.
- Using Power point presentations in seminars.

References:

- Working in English, Jones, Cambridge
- Business Communication, Raman –Prakash, Oxford
- Speaking Personally, Porter-Ladousse, Cambridge
- Speaking Effectively, Jermy Comfort, et.al, Cambridge
- Anjanee Sethi & Bhavana Adhikari, Business Communication, Tata McGraw Hill
- Jermy Comfort, Speaking Effectively, et.al, Cambridge

MULTIDISCIPLINARY COURSES

Multidisciplinary Course

w.e.f. AY 2023-24

SEMESTER-I

Introduction to Social Work

Credits: 2 2 hrs/week

Learning Outcomes:

By successful completion of the course, students will be able to:

1. *Understand the basic concepts relating to social work practice, values, principles of social work and social problems in India*
2. *List out different approaches of providing help to the people in need.*
3. *Acquaint the process of primary methods of social work*
4. *Get to know the skills of working with individuals, groups and communities.*

Syllabus

Unit-I:(07Hrs)- Introduction to social work and concepts related to social work

Introduction to Social Work- Definition- Scope- objectives - Functions- social service, social welfare services, social reform, major social problems in India; Social work philosophy, values, objectives, principles, methods and fields of social work.

Unit-II:(09Hrs) Methods of Working with Individuals and Groups

Social case work –Definition-scope and importance of social case work, principles and process of social case work -Tools and techniques in social case work- Counselling skills. Social Group Work-Definition-scope- the need for social group work –Group work process - Principles of Group Work -Stages of Group Work-Facilitation skills and techniques.

Unit-III: (09Hrs)Workingwith Communitiesand Field Work in social work

Community – definition - characteristics- types- community organisation as a method of social work-definition-objectives-principles- phases of community organization - concepts of community development, community participation and community empowerment.

Field work in social work – Nature, objectives and types of field work - Importance of field work supervision.

Suggested Co-curricular Activities:(05 hours)

1. Divide the students into groups, each group containing not exceeding 10 students depending upon the total number of students in a class or section. Each group can search in internetabout any one of the institutions which work for the welfare of children or women or elderly or scheduled caste and scheduled tribe children or differently abled persons or Juvenile homes or Correctional homes or hospitals or Mahila Pragathipranganam or Swadhar project or any social welfare project or non governmental organizations (NGOs) to have an idea about welfare agencies working for the needy.
2. Ask each group to exchange and discuss the information with other groups in the classroom with the information they collected on Internet.
3. Group Discussion with the students- what type of community problems they observe in their villages/towns/cities? Ask them to tell what are the line departments which will help to solve the problems of their communities and suggest them what type strategies help the communities to empower.
4. Invited lectures/Training by local experts
5. Visit to a community
6. Assignments, Quiz etc.

References:

1. Chowdhary, Paul. D. (1992). Introduction to Social Work. New Delhi: Atma Ram and Sons.
2. Friedlander W.A. (1955). Introduction to social welfare, New York, Prentice Hall.
3. Government of India, (1987). Encyclopedia of Social Work in India (Set of 4 Volumes). New Delhi, Publications Division, Ministry of Information and Broadcasting.
4. Lal Das, D.K. (2017). Practice of Social Research – Social Work Perspective, Jaipur,
5. Rawat Publications.
6. Madan, G.R. (2009). Indian Social Problems (Volume 1 & 2). New Delhi: Allied publishers Private Limited.
7. Siddiqui, H.Y.(2007). Social Group Work. Jaipur: Rawat Publications
8. Pasty McCarthy &Carolin Hatcher, (2002). Presentation skills. The Essential Guide for Students. New Delhi, Sage Publications.
9. Websites on Social work methods.

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Multidisciplinary Course

w.e.f. AY 2023-24

SEMESTER-I

PRINCIPLES OF PSYCHOLOGY

Credits: 2 2 hrs/week

Unit I

Introduction: Definition, Origin of psychology, Psychology as a scientific study of behavior, applied fields of psychology Biological bases of behaviour

Sensory and perceptual processes: Structure and function of visual and auditory senses; Attention: selective, sustained and divided attention. Perception: Nature and determinants; Perceptual constancies

Unit II

Emotion and Motivation: Nature of emotion; components of emotions. Theories of emotion: James-Lange, Cannon-Bard and Schachter-Singer. Motivation: Nature and types; Maslow's hierarchy model

Unit III

Individual differences: Learning and memory: Learning – Definition, Classical and instrumental conditioning: principles of classical conditioning, schedules of reinforcement, Memory - Sensory, short-term and long-term memory; forgetting and its causes

Personality - Trait and type approaches; assessment of personality. Intelligence: Concept of IQ and measurement

Books recommended:

Baron, R. A. (2006). *Psychology* (5th Ed.). New Delhi: Pearson Education.

Ciccarelli, S. K., & Meyer, G. E. (2009). *Psychology*. Delhi: Pearson Education.

Coon, D., & Mitterer, J. O. (2007). *Introduction to Psychology: Gateway to mind and behaviour*. New Delhi:Cengage.

Gerrig, R. J., & Zimbardo, P. G. (2006). *Psychology and Life* (17th Ed.). New Delhi: Pearson Education.

Singh, A. K. (2009). *Uchachtar Samanya Manovigyan*. Varanasi: Motilal Banarasi Das.

Multidisciplinary Course

w.e.f. AY 2023-24

SEMESTER-I

INDIAN HISTORY

Credits: 2 2 hrs/week

Learning Outcomes:

After successful completion of this course, the student will be able to:

- Students will have an overall understanding of Indian history and culture from ancient to modern India.
- Learn about the changes in society, economy, politics, and culture under various dynasties.
- Know mediaeval Indian history and culture.
- Understand the greatness of the Mughals and their administration.
- Visualise how the Europeans are settled and how the colonials introduce various economic policies and their impacts.
- Know the stages of the Indian Freedom Struggle and the roles of Gandhi and Subash Chandra Bose.

Syllabus:

Unit-I

Ancient Indian History and Culture: What is History-Evolution of Man-Science and Technology in Harappan Civilisation-Vedic Literature- Difference between Jainism and Buddhism Philosophy-Ashoka Dhamma Policy-Science and Technology in Guptha Period- Chronology of Various Dynasties that ruled India (6^{th} Century BC to 1206 CE)

Unit-II

History and Culture of Medieval India: Delhi Sultanate: Rulers (Brief), Alla-Ud-Din-Khilji and Muhammad-Bin-Tuglaq Reforms-Greater Mughals (Brief)-Mughal Administration-Akbar Religious Policy-Mughal Art and Architecture-Bhakti Saints

Unit-III

History of Modern India: European Settlements-British Revenue Policies-Economic Impact of British Rule-Socio-Religious Reform Movements-Causes for 1857 Revolt-Indian Freedom Struggle: Vandemataram, Home Rule Movement-Gandhi's Role: Non-Cooperation Movements, Salt Satya Graha and Quit India Movement-Subash Chandra Bose-Partition of India.

Curricular Activities:

- Map-pointing/Collection of Historical news paper cuttings.
- Prepare a chart on Ancient, Medieval Dynasties and their rulers.
- Collect the various National Leaders photographs
- Prepare a list of Historical events in chronological order
- Unit Tests/Quiz/Debates/Workshops/Book Reviews/Seminars/Assignments.
- Collection of Articles and Books/Preparation of Videos/Charts
- Photos Exhibitions on Historical Importance/Visit to the Museums

References:

1. E.H. Carr., What is History, Penguin, 1961
2. R.S.Sharma., Ancient India, New Delhi, 1996
3. D.N.Jha, Ancient India: In Historical Outline, Manohar Publishers, 1999.
4. R.C.Majumdar, K.K.Dutta &H.C.Roy Chowdhuri (ed.), An Advanced History of India, Macmillan, 1948.
5. Romila Thapar., Early India: From the origins to 1300, University of California Press, 2004.
6. Ranabir Chakravarthi., Exploring Early India, upto 1300 A.D, Primus Books, 2016.
7. Satish Chandra., History of Medieval India, 800-1700, Oriental Blackswan, 2007.
8. Satish Chandra., Medieval India: From Sultanate to the Mughals, Part-I & II, Har Anand Publications, 2005.
9. I.H.Qureshi., The Administration of the Sultanate of Delhi, Oriental Books, 1977.
10. Harbans Mukhia., The Mughals of India, Wiley Publishers, 2008.
11. JhanF.Richards., The Mughal Empire, All Volumes, Cambridge University Press, 2012.
12. Sumit Sarkar., Modern India, Pearson India, 2014.
13. Śekhara Bandyopādhyāẏa.,From Plessey to Partition: A History of Modern India, Oriental Blakswan, 2004
14. V.D.Mahajan., Modern Indian History, S.Chand and Company Limited, 2020.
15. Bipan Chnadra, A.Tripathi, Barunde., Freedom Struggle, National Book Trust, 1987.

16. R.C.Dutt., The Economic History of India Under Early British Rule, K.Paul, Trench, Trubner& Company Limited, 2008.
17. Tirthankar Roy., How British Rule Changed India's Economy: The Paradox of the Raj, Springer International Publishing, 2020.
18. S.N.Sen., An Advanced History of Modern India, Macmillan India, 2010.
19. Ishita Banerjee-Dube., A History of Modern India, Cambridge University Press, 2015

Multidisciplinary Courses

w.e.f. AY 2023-24

SEMESTER-I

PRINCIPLES OF BIOLOGICAL SCIENCES

Credits: 2 2 hrs/week

Learning Objectives: By the end of this course the learner can:

1. Acquire logic to evaluate fundamental biological concepts at various levels of biological organisation including the molecular, cellular, organismal and systems levels.
2. Communicate fundamental biological knowledge between tiers of biological organisation.
3. Apply common biological principles across all levels of biological organization.

Learning Outcomes: On completion of this course students will be able to:

1. Understand the relationship between structure and function at all levels.
2. Recognise the mechanisms underlying biological evolution, its patterns, and its significance as biology's overarching unifying principle.
3. Understand the contributions of biology to the resolution of medical, ethical, social, and environmental concerns in human affairs.

UNIT-I Diversity of Life

1.1 Introduction to Biology, Branches of Biology, Basic Principles of Biology
1.2 Biological Classification-Two kingdom and Five kingdom classification, Viruses, Viroid's and Lichens
1.3 Diversity in the living world, Taxonomic categories, Taxonomic aids
1.4 Plant organization-The form, structure and function of plant vegetative and reproductive organs, Classification of Plant Kingdom,
1.5 Basis of Animal Classification, Classification of Animal Kingdom

UNIT-II Biomolecules and metabolisim

2.1 Ultra structure of cell and Cell organelles (Structure and Functions), Plant cell vs Animal cell
2.2 Plant Physiology: Photosynthesis, Respiration, Transportation, Mechanisms of Nitrogen fixation.
2.3 Plant growth and development, physiology of flowering.
2.4 Human Physiology: Digestion, Respiration, Circulation
2.5 Male and female reproductive organs, gametogenesis, fertilization.

UNIT-III Principles of Biology

3.1 Genetics: Mendel's laws of inheritance, Genetic disorders- Colour blindness, Sickle cell anaemia.

3.2 Evolution: Geological time scale for evolution of plants and vertebrates, Origin and evolution of plants and man

3.3 Common Human Diseases: causing organism, prevention and treatment- malaria, dengue, AIDS, cancer, corona.

3.4 Common Plant Diseases: causing organism, prevention and treatment- Black spot, Leaf spots, Powdery mildew, Blight, Canker.

3.5 Biotechnology: Tools and process of recombinant DNA technology, Applications of biotechnology in agriculture, food industry, medicine and transgenic animals.

Text Books

1. Pandey, B.P. (2013) College Botany, Volume-I, S. Chand Publishing, New Delhi.
2. Kotpal, R.L.2022. Modern textbook of zoology, Vertebrates. (Rastogi Publ., Meerut).
3. Verma P.S., Agarwal V.K., 2006. Cell biology, genetics, Molecular Biology, Evolution and Ecology. S. Chand publishers, New Delhi, India.

Reference Books

1. Sreekrishna V. 2005. Biotechnology –I, Cell Biology and Genetics. New Age International Publ. New Delhi, India.
2. Rastogi, S.C., 2019. Essentials of animal physiology. 4th Edition. New Age International Publishers.

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w.e.f. AY 2023-24

SEMESTER-I

PRINCIPLES OF CHEMICAL SCIENCES

Credits: 2 — 2 hrs/week

I. Course Outcomes: At the end of the course the student will be able to-

1. Understand the structure of atom.
2. Identify the isotopes and isobars.
3. Define acids and bases and predict the nature of salts.
4. Explain ionic and covalent bonding.
5. Describe the importance of Chemistry in daily life.

II. Syllabus:

Unit I: Matter, Atoms, Molecules & Nuclear Chemistry

Classification of matter, Dalton atomic theory, Thomson Model, Rutherford Model, Bohr's model of atom, quantum numbers, electronic configuration, Aufbau Principle, Pauli's exclusion principle, Hund's rule. Isotopes-Isobars, Nuclear decay, Band of Stability, Nuclear Reaction types, Nuclear Applications.

Unit II: Elements, Classification and Chemical Bonding

Classification of elements, Periodic Classification of elements based on electronic configuration, classification into types, classification into metals, non-metals and metalloids, periodic properties-atomic radii, ionisation enthalpy, electronegativity, Octet rule, ionic bond properties of Ionic compounds-covalent bond, properties of covalent molecule.

Unit III: Acids, Bases, Salts, Chemistry in Daily life

Definition, types and properties of Acids, Bases, Salts, strength of acids and bases, pH, Importance of Chemistry in daily life. (food, drugs, textiles, preservatives, soaps and detergents.)

III. List of Reference Books:

1. Inorganic Chemistry by Puri and Sharma
2. Basic concepts of Inorganic Chemistry by D.N.Singh

IV. Co-curricular activities:

Projects on Importance of Chemistry in food, drugs, textiles, preservatives, soaps and detergents.

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w.e.f. AY 2023-24

SEMESTER-I

PRINCIPLES OF PHYSICAL SCIENCES

Credits: 2 2 hrs/week

Course Objective:

The course "Principles of Physical Sciences " is designed to introduce arts students to fundamental concepts and principles of physical sciences, fostering a deeper understanding of the physical world and its interconnections with various disciplines.

Learning outcomes:

Upon completion of the course "Principles of Physical Sciences for Arts Students," students from arts backgrounds will be able to:

1. Understand the foundational principles of physical sciences: Students will develop a comprehensive understanding of the core principles and concepts in physical sciences.

2. Analyse and interpret scientific information: Students will acquire the ability to critically analyse scientific information and data related to physical sciences.

3. Apply physical science principles to real-world scenarios: Students will develop the skills to apply physical science principles to solve real-world problems and scenarios.

Syllabus:

Unit 1: Introduction to Physics

Nature of Physics: Overview of physics as a discipline, its scope, and its relationship to other sciences. Scientific Method in Physics: Introduction to the scientific method and its application in the study of physics. Measurement and Units: Understanding the principles of measurement, SI units, and the importance of accurate and precise measurements. Scalars and Vectors: Differentiating between scalars and vectors, understanding vector addition and subtraction.

Unit 2: Mechanics for Arts Students

Motion and Forces: Introduction to the principles of motion, including velocity, acceleration, and the laws of motion. Energy and Work: Understanding the concept of energy, different forms of energy, and the relationship between work and energy. Circular Motion: Exploring the principles of circular motion, centripetal force, and applications in real-world scenarios. Gravity: Introduction to the concept of gravity, Newton's law of universal gravitation, and its implications.

Unit 3: Waves and Optics for Arts Students

Waves: Understanding the properties and characteristics of waves, including wave types, wave motion, and wave interference. Sound Waves: Exploring the nature of sound waves, including properties of sound, sound propagation, and the Doppler effect. Light and Optics: Introduction to the behavior of light, reflection, refraction, and the formation of images by mirrors and lenses. Wave Optics: Understanding the principles of interference, diffraction, and polarization of light waves.

Reference Books:

1."Principles of Physics" by David Halliday, Robert Resnick, and Jearl Walker: This textbook covers the fundamental principles of physics, including mechanics, electromagnetism, thermodynamics, and modern physics. It provides a comprehensive introduction to the subject and includes numerous examples and exercises for practice.

2. "University Physics" by Hugh D. Young and Roger A. Freedman: This textbook is widely used in university-level physics courses. It covers a wide range of topics in classical physics, modern physics, and thermodynamics. It is known for its clear explanations and problem-solving approach.

3. "Concepts of Modern Physics" by Arthur Beiser: This book provides an introduction to the principles and concepts of modern physics, including quantum mechanics, atomic and nuclear physics, and relativity. It is suitable for students with a basic background in physics and mathematics.

4. "The Feynman Lectures on Physics" by Richard P. Feynman, Robert B. Leighton, and Matthew Sands: This three-volume set is based on the famous lectures given by physicist Richard Feynman. It covers a wide range of topics in physics, including mechanics, electromagnetism, quantum mechanics, and statistical mechanics. The lectures are known for their engaging style and intuitive explanations.

5. "Physical Science" by Bill Tillery: This textbook provides a comprehensive introduction to the principles of physical science, covering topics such as motion, forces, energy, waves, electricity, and magnetism. It is designed for introductory-level courses and includes numerous examples, illustrations, and practice problems.

6. "Fundamentals of Physics" by Jearl Walker, David Halliday, and Robert Resnick: This textbook is widely used in physics courses and covers the fundamental principles of classical physics. It includes a strong emphasis on problem-solving and conceptual understanding.

Student activities:

1. Conduct research on a famous physicist or a significant discovery in the field of physics. Write a short report highlighting the physicist's contributions or explaining the importance of the discovery. Include information about how the discovery impacted other scientific fields or technological advancements.

2. Watch videos or animations demonstrating circular motion, such as the motion of objects on a Ferris wheel or a car turning on a curved track. Identify the forces involved, including the centripetal force, and explain how they contribute to the object's circular motion. Discuss real-world examples where circular motion is significant, such as satellites orbiting the Earth.

3. Set up a wave demonstration using a rope or a slinky to visualize the properties of waves, such as wavelength, frequency, amplitude, and wave speed. Observe how these properties change when altering the parameters of the wave, such as tension or length.

I Year II Semester:

S.No	Course Code	Nature of the Course	Title of the Course	No. of Hrs /Week	No. of Credits
1	2MJ60503	Major	Problem Solving using C - (T) Problem Solving using C- (P)	3 2	3 1
2	2MJ60504	Major	Digital Logic Design- (T) Digital Logic Design- (P)	3 2	3 1
3	2MN60701	Minor Mathematics	Differential Equations & Problem Solving Sessions(T) Differential Equations & Problem Solving Sessions(P)	3 2	3 1
4	SM20	First Language	English- A Course in Reading & Writing Skills	4	3
5	SM21 SM22 SM23 SM24	Second Language	**Hindi**-Hindi Padya Sahitya **Sanskrit**-Poetry, Prose & Grammar -II **Telugu**- Srujanaatmaka Rachana **Urdu**-Urdu Prose Non Fiction	4	3
6&7	SC205 SC206 SC207 SC208 SC209	Skill Courses	A student has to choose any TWO of the following four courses 1. Business Writing 2. Marketing Skills 3. Investment Planning 4. Stock Market Operations 5.Digital Literacy	2 2	2 2
-	-	-	No Multidisciplinary course is offered in Semester -	-	-
Total Hours/Week &Total Credits				27	22

MAJOR-SUBJECTS

SEMESTER-II
COURSE 3: Problem Solving Using C

Theory **Credits: 3** **3 hrs/week**

Course Objectives

1. To explore basic knowledge on computers
2. Learn how to solve common types of computing problems.
3. Learn to map problems to programming features of C.
4. Learn to write good portable C programs.

Course Outcomes

Upon successful completion of the course, a student will be able to:

1. Understand the working of a digital computer and Fundamental constructs of Programming
2. Analyze and develop a solution to a given problem with suitable control structures
3. Apply the derived data types in program solutions
4. Use the 'C' language constructs in the right way
5. Apply the Dynamic Memory Management for effective memory utilization

UNIT-I

Introduction to computer and programming: Introduction, Basic block diagram and functions of various components of computer, Concepts of Hardware and software, Types of software, Compiler and interpreter, Concepts of Machine level, Assembly level and high-level programming, Flowcharts and Algorithms

Fundamentals of C: History of C, Features of C, C Tokens-variables and keywords and identifiers, constants and Data types, Rules for constructing variable names, Operators, Structure of C program, Input /output statements in C-Formatted and Unformatted I/O

UNIT-II

Control statements: Decision making statements: if, if else, else if ladder, switch statements. Loop control statements: while loop, for loop and do-while loop. Jump Control statements: break, continue and goto.

UNIT-III

Derived data types in C: Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation; Two Dimensional arrays -Declaration, Initialization and Memory representation.

Strings: Declaring & Initializing string variables; String handling functions, Character handling functions

UNIT-IV

Functions: Function Prototype, definition and calling. Return statement. Nesting of functions. Categories of functions. Recursion, Parameter Passing by address & by value. Local and Global variables. **Storage classes**: automatic, external, static and register.

Pointers: Pointer data type, Pointer declaration, initialization, accessing values using pointers. Pointer arithmetic. Pointers and arrays, pointers and functions.

UNIT-V

Dynamic Memory Management: Introduction, Functions-malloc, calloc, realloc, free **Structures:** Basics of structure, structure members, accessing structure members, nested structures, array ofstructures, structure and functions, structures and pointers. Unions - Union definition; difference between Structures and Unions.

Text Books:

1. E. Balagurusamy, "Programming in ANSI C", Tata McGraw Hill, 6th Edn, ISBN-13: 978-1- 25- 90046-2
2. Herbert Schildt, —Complete Reference with C, Tata McGraw Hill, 4th Edn., ISBN- 13: 9780070411838, 2000
3. Computer fundamentals and programming in C, REEMA THAREJA, OXFORD UNIVERSITY PRESS

Reference Books

1) E Balagurusamy, COMPUTING FUNDAMENTALS & C PROGRAMMING – Tata McGraw-Hill, Second Reprint 2008, ISBN 978-0-07-066909-3.
2) Ashok N Kamthane, Programming with ANSI and Turbo C, Pearson Edition Publ, 2002.
3) Henry Mullish & Huubert L.Cooper: The Spirit of C - An Introduction to modern Programming, Jaico Pub. House,1996.
4) Y kanithkar, let us C BPB, 13 th edition-2013, ISBN:978-8183331630,656 pages.

SUGGESTED CO-CURRICULAR ACTIVITIES & EVALUATION METHODS:

Unit 1: Activity: Quiz on computer hardware and software concepts

Evaluation Method: Objective-based quiz assessing knowledge and understanding

Unit 2: Activity: Problem-solving using Decision-Making Statements

Evaluation Method: Correctness of decision-making logic

Unit 3: Activity: Array and String Program Debugging

Evaluation Method: Identification and correction of errors in code

Unit 4: Activity: Pair Programming Exercise on Functions

Evaluation Method: Collaboration and Code Quality

Unit 5: Activity: Structured Programming Assignment

Evaluation Method: Appropriate use of structures and nested structures

SEMESTER-II
COURSE 3: Problem Solving Using C

Practical **Credits: 1** **2 hrs/week**

List of Experiments

1. A. Write a program to calculate simple & compound interest
   B. Write a C program to interchange two numbers.
2. Find the biggest of three numbers using C.
3. Program to accept rno, name and 3 subject marks. Calculate total, average and issue the grade as per the conditions given
4. Program to find the roots of a quadratic equations
5. Program to accept two numbers and perform arithmetic operation depending on the choice selected.
6. Write a c program to find the sum of individual digits of a positive integer.
7. A Fibonacci sequence is defined as follows: the first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence.
8. Program to reverse a given number
9. Program to find whether the given number is palindrome number or not.
10. Write a c program to check whether a number is Armstrong or not.
11. Write a c program to generate all the prime numbers between 1 and n, where n is avalue supplied by the user.
12. Write a c program that implements searching of given item in given list
13. Write a c program to sort all the elements of array in ascending order by using bubble sort technique
14. Write a c program that uses functions to perform the following: Addition of two matrices.
15. Multiplication of two matrices.
16. Write a program for concatenation of two strings.
17. Write a program for length of a string with and without String Handling functions
18. Write a program to demonstrate Call by Value and Call by Reference mechanism
19. Write a Program to find GCD of Two numbers using Recursion
20. Write a c program to perform various operations using pointers.
21. Write a c program to read data of 10 employees with a structure of 1.employee id 2.aadar no, 3.title, 4.joined date, 5.salary, 6.date of birth, 7.gender, 8.department.
22. Write a Program to demonstrate dynamic arrays using Dynamic Memory Management functions

SEMESTER - II

Course 4: Digital Logic Design

Theory **Credits: 3** **3 hrs/week**

Course Objectives

To familiarize with the concepts of designing digital circuits

Course Outcomes

Upon successful completion of the course, the students will be able to

1. Understand how to Convert numbers from one radix to another radix and perform arithmetic operations.
2. Simplify Boolean functions using Boolean algebra and k- maps
3. Design adders and subtractors circuits
4. Design combinational logic circuits such as decoders, encodes, multiplexers and de-multiplexers.
5. Use flip flops to design registers and counters.

UNIT – I

Number Systems: Binary, octal, decimal, hexadecimal number systems, conversion of numbers from one radix to another radix, r's, (r-1)'s complements, signed binary numbers, addition and subtraction of unsigned and signed numbers, weighted and unweighted codes.

UNIT – II

Logic Gates and Boolean Algebra: NOT, AND, OR, universal gates, X-OR and X-NOR gates, Boolean laws and theorems, complement and dual of a logic function, canonical and standard forms, two level realization of logic functions using universal gates, minimizations of logic functions (POS and SOP) using Boolean theorems, K-map (up to four variables), don't care conditions.

UNIT – III

Combinational Logic Circuits – 1: Design of half adder, full adder, half subtractor, full subtractor, ripple adders and subtractors, ripple adder / subtractor.

UNIT – IV

Combinational Logic Circuits – 2: Design of decoders, encoders, priority encoder, multiplexers, demultiplexers, higher order decoders, demultiplexers and multiplexers, realization of Boolean functions using decoders, multiplexers.

UNIT – V

Sequential Logic Circuits: Classification of sequential circuits, latch and flip-flop, RS-latch using NAND and NOR Gates, truth tables, RS, JK, T and D flip-flops, truth and excitation tables, conversion of flip- flops, flip-flops with asynchronous inputs (preset and clear).

Design of registers, shift registers, bidirectional shift registers, universal shift register, design of ripple counters, synchronous counters and variable modulus counters.

Text Books:

1. M. Morris Mano, Michael D Ciletti, "Digital Design", 5th edition, PEA.

Reference Books

1. Kohavi, Jha, "Switching and Finite Automata Theory", 3rd edition, Cambridge.
2. Leach, Malvino, Saha, "Digital Principles and Applications", 7th edition, TMH.
3. Roth, "Fundamentals of Logic Design", 5th edition, Cengage.

SUGGESTED CO-CURRICULAR ACTIVITIES & EVALUATION METHODS:

Unit 1: Activity: JAM (Just a Minute) Session: Explaining Radix Conversion

Evaluation Method: Communication Skills and Knowledge Presentation

Unit 2: Activity: Boolean Algebra Assignment

Evaluation Method: Assignment Completion and Correctness

Unit 3: Activity: Hands-on Lab Activity: Building Adder and Subtractor Circuits

Evaluation Method: Lab Performance and Correctness of Circuit Implementation

Unit 4: Activity: Group Discussion: Applications of Decoders, Encoders, Multiplexers

Evaluation Method: Participation and Critical Thinking

Unit 5: Activity: Quiz on Flip-Flops and Register-Counter Design

Evaluation Method: Quiz Performance and Knowledge Retention

SEMESTER - II

Course 4: Digital Logic Design

Practical **Credits: 1** **2 hrs/week**

List of Experiments

The laboratory work can be done by using physical gates and necessary equipment or simulators.

Simulators: https://sourceforge.net/projects/gatesim/ or https://circuitverse.org/ or any free open- source simulator

1. Introduction to digital electronics lab- nomenclature of digital ICs, specifications, study of the data sheet, concept of Vcc and ground, verification of the truth tables of logic gates using TTL ICs.
2. Implementation of the given Boolean functions using logic gates in both SOP and POS forms
3. Realization of basic gates using universal gates.
4. Design and implementation of half and full adder circuits using logic gates.
5. Design and implementation of half and full subtractor circuits using logic gates.
6. Verification of stable tables of RS, JK, T and D flip-flops using NAND gates.
7. Verification of stable tables of RS, JK, T and D flip-flops using NOR gates.
8. Implementation and verification of Decoder and encoder using logic gates.
9. Implementation of 4X1 MUX and DeMUX using logic gates.
10. Implementation of 8X1 MUX using suitable lower order MUX.
11. Implementation of 7-segment decoder circuit.
12. Implementation of 4-bit parallel adder.
13. Design and verification of 4-bit synchronous counter.
14. Design and verification of 4-bit asynchronous counter.

MINOR-SUBJECTS

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SEMESTER-II

COURSE 1: DIFFERENTIAL EQUATIONS

Theory Credits: 3 3 hrs/week

Course Outcomes

After successful completion of this course, the student will be able to

1. solve first order first degree linear differential equations.
2. convert a non-exact homogeneous equation to exact differential equation by using an integrating factor.
3. know the methods of finding solution of a differential equation of first order but not of first degree.
4. solve higher-order linear differential equations for both homogeneous and non-homogeneous, with constant coefficients.
5. understand and apply the appropriate methods for solving higher order differential equations.

Course Content

Unit – 1

Differential Equations of first order and first degree

Linear Differential Equations – Bernoulli's Equations - Exact Differential Equations –Integrating factors - Equations reducible to Exact Equations by Integrating Factors -

i) Inspection Method ii) $\frac{1}{Mx+Ny}$ iii) $\frac{1}{Mx-Ny}$

Unit – 2

Differential Equations of first order but not of first degree

Equations solvable for p, Equations solvable for y, Equations solvable for x – Clairaut's equation - Orthogonal Trajectories: Cartesian and Polar forms.

Unit – 3

Higher order linear differential equations

Solutions of homogeneous linear differential equations of order n with constant coefficients - Solutions of non-homogeneous linear differential equations with constant coefficients by means of polynomial operators

(i) $Q(x) = e^{ax}$ (ii) $Q(x) = Sin\ ax$ (or) $Cos\ ax$

Unit – 4

Higher order linear differential equations (continued.)

Solution to a non-homogeneous linear differential equation with constant coefficients

P.I. of $f(D)y = Q$ when $Q = bx^k$

P.I. of $f(D)y = Q$ when $Q = e^{ax}V$, where V is a function of x

P.I. of $f(D)y = Q$ when $Q = xV$, where V is a function of x

Unit – 5

Higher order linear differential equations with non-constant coefficients

Linear differential Equations with non-constant coefficients; Cauchy-Euler Equation; Legendre Equation; Method of variation of parameters

Activities

Seminar/ Quiz/ Assignments/ Applications of Differential Equations to Real life Problem /Problem Solving Sessions.

Text Book

Differential Equations and Their Applications by Zafar Ahsan, published by Prentice-Hall of India Pvt. Ltd, New Delhi-Second edition.

Reference Books

1. Ordinary and Partial Differential Equations by Dr. M.D. Raisinghania, published by S. Chand &Company, New Delhi.
2. Differential Equations with applications and programs – S. Balachandra Rao & HR Anuradha-Universities Press.
3. Differential Equations -Srinivas Vangala&Madhu Rajesh, published by Spectrum University Press.

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6/8/24.

06.08.2024

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SEMESTER-II

COURSE 1: DIFFERENTIAL EQUATIONS

Practical **Credits: 01** **2 hrs/week**

Course Outcomes:

CO 1: Apply various methods to solve linear differential equations with constant Coefficients.

CO 2: Solve linear equations with non constant coefficients differential equations.

PRACTICAL SESSIONS-SYLLABUS

1. Linear and Bernoulli Differential Equations.
2. Exact Differential Equation and Integrating Factors-I.
3. Integrating Factors-II.
4. Total Differential Equations.
5. Equations solvable for p and y.
6. Equations solvable for x and Clairaut's equations.
7. Higher Order Linear Differential Equations.
8. Method of Undetermined Coefficients and Variation of Parameters.
9. Linear Differential Equations with non- constant coefficients, Cauchy Euler Equations,
10. Legendre's Linear equations.

Activities

1. Training of students by related industrial experts.
2. Assignments including technical assignments if any.
3. Seminars, Group Discussions, Quiz, Debates etc. on related topics.
4. Preparation of audio and videos on tools of diagrammatic and graphical representations.
5. Collection of material/figures/photos/author photos of related topics.
6. Invited lectures and presentations of some topics.
7. Visits/field trips of firms, research organizations etc.

Text Book

Differential Equations and Their Applications by Zafar Ahsan, published by Prentice-Hall of India Pvt. Ltd, New Delhi-Second edition.

Reference Books

- Ordinary and Partial Differential Equations by Dr. M.D. Raisinghania, published by S. Chand &Company, New Delhi.
- Differential Equations with applications and programs – S. Balachandra Rao & HR Anuradha Universities Press.
- Differential Equations -Srinivas Vangala & Madhu Rajesh, published by Spectrum University Press.

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Model Paper for Practical Examination in ALL Semesters in MATHEMATICS

(For Minor Courses)

Structure and Evaluation of Practicals

1. 5 practicals should be given in the practical examination.
2. 3 practicals should be answered.
3. Marks allotment (Total 50 marks)
   a. 3 practicals each with ~~13~~ 10 marks = ~~39~~ 30 marks
   b. Record = 10 marks
   c. ~~Impression = 1 mark.~~ Viva-Voce / Impression = 10 marks

Madhavi
06.08.2024

J Reddy.c
6/8/24.

J Reddy

SRI HARI DEGREE COLLEGE:AUTONOMOUS

B.Sc./BCA.HONORS DEGREE EXAMINATIONS

MATHEMATICS

ALL PAPERS

Time: 3 Hrs **Max.marks:70**

I. Answer any FIVE questions **5x4=20**

1. From Unit – I of the syllabus
2. From Unit – I of the syllabus
3. From Unit – II of the syllabus
4. From Unit – II of the syllabus
5. From Unit – III of the syllabus
6. From Unit – III of the syllabus
7. From Unit – IV of the syllabus
8. From Unit – IV of the syllabus
9. From Unit – V of the syllabus
10. From Unit – V of the syllabus

II. Answer ALL questions **5x10=50**

11.
[or] From Unit – I of the syllabus
12.

13.
[or] From Unit – II of the syllabus
14.

15.
[or] From Unit – III of the syllabus
16.

17.
[or] From Unit – IV of the syllabus
18.

19.
[or] From Unit – V of the syllabus
20.

Madhavi
06.08.2024

8/8/24.

FIRST-LANGUAGE

SEMESTER-II

COURSE 1: A COURSE IN READING & WRITING SKILLS

Theory Credits: 3 4hrs/week

Objectives

- To enrich the vocabulary of learner
- To appreciate the beauty of poetry
- To imbibe the sub-skills and skills of reading
- To provide exposure to the essentials of writing

Outcomes

By the end of the course the learner will be able to:

- Use reading skills for effective comprehension.
- Build up a repository of active vocabulary.
- Own writing strategies in academic skills.
- Enable writing skills for future purposes.
- Enhance communicative competence through Reading and Writings skills acquired.

I. UNIT

Poetry	:	1. Ulysses Alfred Lord Tennyson
Reading Skills	:	2. Vocabulary: Synonyms & Antonyms, Homophones & Homonyms
	:	3. One Word Substitutes
	:	4. Collocations
	:	5. Phrasal Verbs
	:	6. Idioms

II. UNIT

Prose	:	1. The Best Investment I Ever Made - A.J.Cronin
Non-Detailed Text	:	2. Kabuliwala - Rabindranath Tagore
Reading Skills	:	3. Skimming and Scanning

III. UNIT

Prose	:	1. The Night Train at Deoli – RuskinBond
Poetry	:	2. Stopping by Woods on a Snowy Evening – Robert Frost
Reading Skills	:	3. Reading Comprehension (Top Down, Bottom Up and Schema Theory)
	:	4. Note Making and Note Taking

IV.UNIT

Poetry	:	1. Palanquin Bearers - Sarojini Naidu
Writing Skills	:	2. Expansion of Proverbs
	:	3. Preparation of Notices, Agendas and Minutes

V.UNIT

Non-Detailed Text	:	1. An Astrologer's Day - RK Narayan
Writing Skills	:	2. Curriculum Vitae and Resume
	:	3. Letter Writing (Formal & Informal) & E-Correspondence
	:	4. Paragraph Writing (Narrative & Descriptive)

References:

1. Communication Skills (2nd Edition), Sanjay Kumar & PushpLata, Oxford University Press, 2016.
2. The New Oxford Guide to Writing, Thomas. S. Kane
3. Reading Skills: How to Read Better and Faster- Speed Reading, Reading Comprehension & Accelerated Learning (2nd Edition), Nick Bell.
4. English Vocabulary in Use: Upper Intermediate, Cambridge University Press.
5. Objective English for Competitive Examinations by Hari Mohan Prasad & Uma Rani Sinha, S. Chand Publishers.
6. Objective General English by Dr. R. S. Aggarwal & Vikas Aggarwal, S. Chand Publishers.

Activities:

- Asking the students to prepare a model resume.
- Quiz on one word substitutes.
- Collocation pair activity.
- Asking the students to read news clippings and make notes.

* * *

SECOND-LANGUAGES

SEMESTER - II

हिन्दी पद्य साहित्य

Theory. **Credits - 3** **4hrs/week**

Units: 5

Periods: 60

लक्ष्य:

१. कबीर और तुलसी के दोहो में व्यक्त सामाजिक संदेश जो आज के समय में भी प्रासंगिक है, विद्यार्थियों को उनसे परिचित कराना। सूर के पदों की लयात्मकता से परिचित हो पाना।

२. आधुनिक काल के प्रमुख हिन्दी कवियों का योगदान एवं विभिन्न साहित्यक परंपराओं में उनके योगदान का आकलन कर सकेंगे।

३. निबंध के माध्यम से विद्यार्थियों के सामाजिक ज्ञान की वृद्धि होना।

४. प्रयोजन मूलक हिन्दी के अंतरगत विद्यार्थी विभिन्न सरकारी पत्रों से अवगत हो पाना।

६. अनुवाद और संक्षेपन ऐसी कलाएँ है, जिनके अभ्यास से विद्यार्थी भाषाओं पर निपुणता हासिल कर सकेंगे।

Unit - I

प्राचीन कविता

१. कबीर दस - ५ दोहे

२. सूरदास - बाल लीला

३. तुलसीदास - ५ दोहे

Unit - II

आधुनिक कविता

१. मातृभाषा - भारतेन्दु हरिश्चंद्र - ५ दोहे

२. भिक्षुक - सूर्यकांत त्रिपाठी निराला

३. मादा भ्रूण - रजनी तिलक

Unit - III

सामान्य निबन्ध

१ विद्यार्थी और अनुशासन

२. विश्व भाषा के रूप में हिन्दी

३. पर्यावरण प्रदुषण

Unit -IV

प्रयोजन मूलक हिन्दी - परिचय

सरकारी पात्र - परिभाषा एिं पत्र का नमूना

१. परिपत्र

२. ज्ञापन

३. अधिसूचना

Unit - V

१. १. अनुवाद - अंग्रेजी से हिन्दी, तेलुगु से हिन्दी

२. संक्षेपण

परिणाम: द्वितीय सत्र के सफल समापन के उपरांत विद्याथी नीम्न विषयों में संक्षम होंगे ।

१. प्राचीन कविता के अध्ययन से विद्यार्थियों में सामाजिक चेतना जागृत होगी, काव्यगत विशेषताओं से परिचित होंगे ।

२. आधुनिक काल की विविध प्रक्रियाओं का आकलन तथा विश्लेषण।

३. विभिन्न निबंधों के माध्यम से विद्यार्थियों के सामाजिक ज्ञान की श्रीवृध्दि।

४. प्रयोजन मूलक हिन्दी का ज्ञान प्राप्त कर विद्यार्थी सरकारी तथा गौर सरकारी संगठनो में अनुवादक पद के लिए अपने आप को तैयार कर पायेंगे।

५. अनुवाद अभ्यास जो साहित्यिक अनुप्रयुक्त माध्यम से करवाया जाता है, यह विद्यार्थियों के लिए उपयोगी सिद्ध होगा। संक्षेपण कला के अभ्यास से भाषाई निपुणता प्राप्त कर सकते है।।

संदर्भ ग्रंथ

१. गध्य सन्देश - डॉ नरसिंहम शिवकोटि

२. कथालोक - डॉ घनश्याम

३. काव्य दीप - श्री बी राधाकृष्ण मूर्ति

४. आधुनिक हिन्दी व्याकरण और रचना - डॉ वासुदेव नंदन प्रसाद

SRI HARI DEGREE COLLEGE
AUTONOMOUS
(Permanently Affiliated to Yogi Vemana University, Kadapa.)
NAAC Accredited By " A " Grade With CGPA 3.15
Recognised by UGC New Delhi under Section 2 (f) & 12(B) I An ISO 9001:2015 Certified Institution
ज्ञान-विज्ञान विमुक्तये

(Implemented from Acadamic Year 2024-2025)
PROGRAMME: BA/BCA/B.COM/BBA/B.SC (Honours)
Major Subject: SANSKRIT
SEMESTER -2

Course 2: POETRY, PROSE & GRAMMER -11

I. Learning Outcomes;

1. संस्कृत पध्यकविप्रयोग माधुर्यानुभूतिः भवति 1
2. संस्कृत गध्यकविप्रयोग माधुर्यानुभूतिः भवति 1
3. व्याकरणज्ञानात् लेखनशुद्धिः भवति 1

II. Syllabus: (Teaching Hours: 45)

Unit – 1: प्राचीन पध्य साहित्यम् (9h)

1. पाणिग्रहणंम् – रघुवंशमहाकाव्ये 7 सर्गः
2. पत्रार्चनंम् – नानाग्रन्थेभ्यः

Unit – 2: आधुनिक पध्य साहित्यम् (9h)

1. पन्नाधात्री – श्रीमत्प्रतापरणायने मेवाडकाण्डे 13 सर्गः
2. सुखवर्गः – धम्मपदंम् (Sanskrit Verson of Prof. P. Sriramachandrudu)

Unit – 3: गध्य साहित्यम् (9h)

1. अमोघदर्शनम् – बाणस्य कादंबरीतः
2. चारुचेष्टितम् – कविकोपकलापतः

Unit – 4: व्याकरणम् (9h)

1. अजन्त शब्दाः (नदी, तनु, वधु, मातृ, वन, फल, वारि, मधु)
2. धातवः (इष, लिख, कृज्, चुर, रमु, वन्द्, युध्)

Unit – 5: व्याकरणम् (9h)

1. सन्धयः (हल् संधिः – विसर्गसन्धिः)
2. समासाः (अव्ययीभावः, बहुर्वीहिः)

III. Skill Outcomes:

On succesfulcompletion of this course, student shall be able to:

1. संस्कृतकवीनां पदवाक्यप्रयोगसरणेरवगतिः भवति 1
2. संस्कृतकवीनां भावगम्भीर्यं परिज्ञानं भवति 1
3. वाक्यरचनायाम् दोषराहित्यप्राप्तिः भवति 1

IV. References:

1. Prescribed Sanskrit Text Book ll

V. Co-Curricular Activites: (Hours for Activity: 15h)

1. Assignments
2. Seminars, Group discussions, Quiz, Debates etc.
3. Invited lectures and presentations on related topics by experts.

SEMESTER ll QUESTION PAPER PATTERN

प्रश्नपत्रप्रणाली

Time : 3 Hours (Max. Marks : 70

सूचना (NOTE) : Q. No 2.3.4.5 & 10 should be answerd in Sanskrit only.

प्रथमो भागः (20

12. श्लोकपूरणं भाव लेखनं च l	2 Out of 4	2 x 2=4 M
13. शब्दाः	2 Out of 4	2 x 2=4 M
14. धातवः	2 Out of 4	2 x 2=4 M
15. सन्धिः	2 Out of 4	2 x 2=4 M
16. समासाः	2 Out of 4	2 x 2=4 M
		20 M

द्वितीय भागः (50 Marks)

17. आन्ध्रभाषायां वा आङ्ग्लभाषायां वा अवुवदत्त	2 Out of 4	2 x 3=6 M
18. निबन्धप्रश्नः	1 Out of 2	1 x 8=8 M
19. निबन्धप्रश्नः	1 Out of 2	1 x 8=8 M
20. निबन्धप्रश्नः	1 Out of 2	1 x 8=8 M
21. लघुप्रश्नाः	4 Out of 8	4 x 2=8 M
22. संदर्भवाक्यानि	4 Out of 8	4 x 3=12M
		50 M

प्रथमभागः	- 20 M	Internal Assessment Mid – Sem	- 20
द्वितीयभागः	- 50 M	Assignment / Seminor	- 5
अन्तर्गतपरीक्ष	- 30 M	Attendance	- 5
	100 M		30 M

COURSE 2: సృజనాత్మక రచన

Theory | Credits: 3 | 4 hrs/week

- **అభ్యసన లక్ష్యాలు**

1. తెలుగు సాహిత్య అభ్యసన నైపుణ్యాలను, సృజనాత్మక నైపుణ్యాలుగా మార్చడం

విద్యార్థులు భాషాతత్వాన్ని, భాష యొక్క ఆవశ్యకతను, భాష యొక్క ప్రాధాన్యాన్ని గుర్తింపజేయడం

మనిషి వ్యక్తిగత జీవనానికి, సామాజిక వ్యవస్థ పటిష్టతకు భాష ప్రధానమని తెలుసుకునేలా జేయడం

తెలుగుభాషలోని కీలకాంశాలైన వర్ణం, పదం, వాక్యాల ప్రాధాన్యాన్ని అవగాహన చేసుకోవడం

2. అనువాద రంగంలో నైపుణ్య సంపాదనను కలగజేయడం

3. సృజన రంగం, ప్రసార మాధ్యమ రంగాల్లో ఉపాధి అవకాశాలను అందిపుచ్చుకునేలా జేయడం

4. వ్యాస రచన ఎలా చేయాలో నేర్పించడం

5. సాంకేతికత రంగంలో తెలుగు ప్రాధాన్యతను గుర్తించేలా జేయడం

పాఠ్య ప్రణాళిక

I. వ్యక్తీకరణ నైపుణ్యాలు

భాష- నిర్వచనాలు, లక్షణాలు

భాష- ఆవశ్యకత, ప్రయోజనాలు

భాష – ఉత్పత్తి వాదాలు

వర్ణం - పదం – వాక్యం

II. అనువాద రచన

అనువాదం - నిర్వచనాలు, ఆవశ్యకత

అనువాద పద్ధతులు

అనువాద సమస్యలు - భౌగోళ, భాష, సాంస్కృతిక సమస్యలు.

- అభ్యాసం ఆంగ్లంనుంచి తెలుగుకు, తెలుగు నుంచి ఆంగ్లానికి ఒక 'పేరా' అనువాదం చేయడం

III. మాధ్యమాలకు రచన

పత్రికా రచన – వార్తారచన, సంపాదకీయం, సమీక్ష

శ్రవ్య మాధ్యమం – రేడియో రచన (కథ), podcast (డాక్యుమెంటరీ)

దృశ్య మాధ్యమం – టెలివిజన్ (కెమెరా) రచన [రూపకం (Skit), వాఖ్యానం (Anchoring)]

- ముద్రణా మాధ్యమ / శ్రవ్య మాధ్యమ / దృశ్య మాధ్యమ రచన విద్యార్థుల చేత చేయించడం

IV. తెలుగు వ్యాస రచన

- **తెలుగు లిపి పరిచయం- యూనికోడ్**
- తెలుగు వికిపీడియా - సామాజిక మాధ్యమాల్లో తెలుగు (ఇ-పత్రికలు, వెబ్‌సైట్లు, బ్లాగ్లు)
- తెలుగు వ్యాసం- నిర్వచనాలు, లక్షణాలు, • సాక్షి వ్యాసం- స్వభాష
- ఉపాధ్యాయ ఉవాచ-మునిమాణిక్యం నరసింహారావు
- విద్యార్థిచేత వ్యాస రచన చేయించడం

V. జానపద సాహిత్యం:

- జానపదం, గేయ పరిచయం - బాలగేయాలు, శృంగార గేయాలు, భక్తి గేయాలు, వేడుక పాటలు మొదలగునవి.

- **ఆధార గ్రంథాలు/వ్యాసాలు:**

1. వ్యక్తీకరణ నైపుణ్యాలు - 1. ఆధునిక భాషా శాస్త్ర సిద్ధాంతాలు-ఆచార్య పి.యస్.సుబ్రమణ్యం.

2. తెలుగు భాషా చరిత్ర - ఆచార్య భద్రిరాజు క్రిష్ణమూర్తి

3. తెలుగు వాక్యం-ఆచార్య చేకూరి రామారావు.

2. ఉత్తమ కవిత-లక్షణాలు- నవ్య కవిత్వ లక్షణములు-ఆచార్య సి.నారాయణ రెడ్డి

ఆధునికాంధ్ర కవిత్వం-సాంప్రదాయములు, ప్రయోగములు, చతుర్థప్రకరణము.

3. ఉత్తమ కథ-లక్షణాలు - కథా శిల్పం-వల్లంపాటి వెంకటసుబ్బయ్య, పుటలు 11-17,

4. తెలుగు కథానిక- స్వరూప స్వభావాలు-పోరంకి దక్షిణామూర్తి

5. ఉత్తమ వ్యాసం లక్షణాలు- చదువు-సంస్కృతి (వ్యాసం)-కొడవగంటి కుటుంబరావు

6. తెలుగు వ్యాస పరిణామం- ఆచార్య కొలకలూరి ఇనాక్

7. అనువాద రచన - 1. అనువాద సమస్యలు-రాచమల్లు రామచంద్రారెడ్డి (పుటలు 61-75,85-94)

2. అనువాదన పద్ధతులు-ఆచరణ సమస్యలు-చేకూరి రామారావు

- "భాషాంతరంగం", తెలుగు విశ్వవిద్యాలయం ప్రచురణ (పుటలు 130-146)

8.ముద్రణమాధ్యమము- - మాధ్యమాలకు రచన (పుటలు 9-12)

డా॥ బి.ఆర్.అంబేద్కర్ విశ్వవిద్యాలయం ప్రచురణ

9.పత్రిక భాషా - మాధ్యమాలకు రచన (పుటలు 67-74)

10.జనపద విజ్ఞాన అధ్యాయనం - ఆచార్య జి.యస్.మోహన్

11.ఆంధ్రుల జ్ఞానపద విజ్ఞానం - ఆచార్య ఆర్.వి.యస్. సుందరం.

డా॥ బి.ఆర్. అంబేద్కర్ విశ్వవిద్యాలయ ప్రచురణ

10. పత్రికా రచన - తెలుగు మౌలికాంశాలు (పుటలు 59-69)

డా॥ బి.ఆర్. అంబేద్కర్ విశ్వవిద్యాలయ ప్రచురణ

11. ప్రసార మాధ్యమాలు- మాధ్యమాలకు రచన (పుటలు 3-10)

డా॥ బి.ఆర్. అంబేద్కర్ విశ్వవిద్యాలయ ప్రచురణ

12. రేడియో రచన - మాధ్యమాలకు రచన (పుటలు 141-148)

డా॥ బి.ఆర్. అంబేద్కర్ విశ్వవిద్యాలయ ప్రచురణ

- చూ. మాధ్యమాలకు రచన (పుటలు 141-148)

13. వ్యాఖ్యానం (యాంకరింగ్) - మాధ్యమాలకు రచన (పుటలు 178-181)

డా॥ బి.ఆర్. అంబేద్కర్ విశ్వవిద్యాలయ ప్రచురణ

14. టెలివిజన్ రచన - మాధ్యమాలకు రచన (పుటలు 153 -160)

డా॥ బి.ఆర్. అంబేద్కర్ విశ్వవిద్యాలయ ప్రచురణ

15. తెలుగు జర్నలిజం - డా॥ బూదరాజు రాధాకృష్ణ

సూచించబడిన సహపాఠ్య కార్యక్రమాలు

1. భాషాంశాలపై, వాక్య నిర్మాణంపై అసైన్మెంట్లు రాయించడం, పత్రికల్లోని సాహిత్య/భాషాంశాలను సేకరింపజేయడం.
2. విద్యార్థులచేత తెలుగు భాషా సాహిత్యాలపై ప్రసంగ వ్యాసం ఇప్పించడం (సెమినార్, అసైన్మెంట్)
3. వ్యాసరచన, లేఖారచన, స్వీయ కవితలు రాయించి తరగతిలో చదివింపచేయడం
4. వివిధ కార్యక్రమాల్లో విద్యార్థులచేత సదస్సు నిర్వహణ, వ్యాఖ్యానం (యాంకరింగ్) చేయించడం.
5. సమకాలీన భాషాసమస్యలపై / ఉద్యమాలపై/సాంఘిక సమస్యలపై 'బృందచర్చ' (Group Discussion)
6. తెలుగుభాషా దినోత్సవం/అంతర్జాతీయ మాతృభాషా దినోత్సవం మొదలైన రోజుల్లో జరిగే సాంస్కృతిక కార్యక్రమాలు విద్యార్థులచేత నిర్వహింపజేయడం, వాటిపై సమీక్షలు/పత్రికా ప్రకటనలు రాయించడం.
7. సమకాలీన సంఘటనలపై సామాజిక మాధ్యమాల్లో/ టి.వి.ల్లో జరిగే చర్చలను నమోదు చేసి సంకలనం చేయడం.
8. సాంస్కృతిక / చారిత్రక ప్రాశస్త్యం కలిగిన కట్టడాలు, దేవాలయాలు, కళానిలయాలను 'బృందపర్యటన/ క్షేత్ర పర్యటన' ద్వారా విద్యార్థులచేత సందర్శింపజేయడం.

- **అభ్యసన ఫలితాలు**

ఈ కోర్సు విజయవంతంగా ముగించాక, విద్యార్థులు క్రింది అభ్యసన ఫలితాలను పొందగలరు.

1. తెలుగు సాహిత్య అభ్యాసన ద్వారా నేర్చుకున్న నైపుణ్యాలను, సృజనాత్మక నైపుణ్యాలుగా మార్చుకోగలరు. విద్యార్థులు భాషాతత్వాన్ని, భాష యొక్క ఆవశ్యకతను, భాష యొక్క ప్రాధాన్యాన్ని గుర్తిస్తారు. మనిషి వ్యక్తిగత జీవనానికి, సామాజిక వ్యవస్థ పటిష్టతకు భాష ప్రధానమని తెలుసుకుంటారు. తెలుగుభాషలోని కీలకాంశాలైన వర్ణం, పదం, వాక్యాల ప్రాధాన్యాన్ని గుర్తిస్తూ వాగ్రూప, లిఖితరూప వ్యక్తీకరణ ద్వారా భాషానైపుణ్యాలను మెరుగుపరచుకోగలరు.

2. అనువాద ఆవశ్యకతను తెలుసుకుంటారు. అనువాద రంగంలో నైపుణ్యం పెరుగుతుంది.

3. సృజన రంగం, ప్రసార మాధ్యమ రంగాల్లో ఉపాధి అవకాశాలను అందిపుచ్చుకోగలరు.

4. భాషానైపుణ్యాలను అలవరచుకోవడంతోపాటు వినియోగించడం నేర్చుకుంటారు. భాషణానైపుణ్యాలను సృజనాత్మక రూపంలో వ్యక్తీకరించగలరు. మంచి వ్యాస రచనా నైపుణ్యాలను పెంపొందించుకోగలరు.

5. సాంకేతికత రంగంలో తెలుగు ప్రాధాన్యత గురించి అవగాహన పొందగలరు.

Syllabus for (B.A./ B.Com. / B.Sc.) U.G. under CBCS
Second Language – Urdu
Second Year Degree Course Second Language Part -

1(b) Paper – II: Urdu Prose Fiction

SEMESTER - II

UNIT – I AFSANAWI ADAB KA TA'ARUF

UNIT – II 1.DASTAN *Shuru Qisse ka* (Baagh-oBahar: Meer Amman)
2.DASTAN KA AGAZ O IRTIQA

UNIT – III 1.NOVEL
Kaleem ka Mirza Zahirdaar Baig ke yahan Mehmaan Jana
(Taubatun Nasooh: Dy. Nazeer Ahmed)
2.NOVEL KA AGAZ O IRTIQA

UNIT – IV 1.DRAMA *Gud Ki Makhkhiyaan* (Dr. Kareem Roomani)
2.DRAMA KA AGAZ O IRTIQA

UNIT – V 1.AFSANA *Ek Aur Din* (Abdus Samad)
2. AFSANA KA AGAZ O IRTIQA

SUGGESTED READING:

1. Urdu Shairi Ka Tanqeedi Muta'a – Sumbul Nigaar Tareek-E-Adab-E-Urdu – Noorul Hasan Naqui Mukhtasar Tareek-E-Adab-E-Urdu – Ejaz Hussain

SKILL-COURSES

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SKILL COURSE

w.e.f. AY 2023-24

SEMESTER-II

BUSINESS WRITING

Theory | Credits: 2 | 2 hrs/week

Course Outcomes:

By the end of this course, students will be able to:

1. Understand the fundamentals of business writing, including style, tone, and language.
2. Produce well-structured and concise business documents, such as emails, memos, and reports.
3. Apply principles of effective communication in business letters and interoffice correspondence.
4. Craft persuasive and well-organized business proposals and formal reports.
5. Cultivate a professional and ethical approach to business writing.

Unit 1. Introduction to Business Writing: Importance and purpose of effective business writing; Characteristics of good business writing; Common challenges and misconceptions. Writing Clear and Concise Emails: Appropriate email etiquette in the professional environment, organizing email content and using effective subject lines, Understanding tone and formality in email communication.

Unit 2. Memos and Interoffice Communication: Formatting and structure of memos, Writing memos for various purposes like updates, announcements, requests. Ensuring clarity and coherence in interoffice communication. Business Letters and Formal Correspondence: Structure and components of a business letter, writing persuasive and professional business letters, Responding to inquiries and complaints effectively.

Unit 3: Business Proposals and Reports: Crafting business proposals for projects and initiatives, Formal report writing - format, sections, and organization, Analyzing data and presenting findings in reports. Writing for Digital Platforms: Business writing for websites, social media, and online communication, Leveraging technology for efficient and impactful business writing

Activities:
1. Writing Assignments: Regular business writing tasks covering different document types.
2. Business Proposal Project: Crafting a comprehensive business proposal for a hypothetical scenario.
3. Reports and Presentations: Preparing formal reports and presenting findings to the class.
4. Quizzes and Tests: Assessing understanding of business writing principles and grammar.
5. Class Participation: Active engagement in discussions, peer reviews, and activities.

Text Books:

1. Business Writing Basics by Jane Watson (Author) Publisher: Self Counsel Press Inc; 2nd edition (1 August 2002) ISBN-10: 1551803860 ISBN-13: 978-1551803869
2. Successful Business Writing - How to Write Business Letters, Emails, Reports, Minutes and for Social Media - Improve Your English Writing and Grammar: of Exercises and Free Downloadable Workbook by Heather Baker Publisher: Universe of Learning Ltd; Illustrated edition (1 March 2012) ISBN-10 : 1849370745 ISBN-13 : 978-1849370745
3. Business Correspondence and Report Writing, 6th Edition by R C Sharma, Krishna Mohan, Virendra Singh Nirban. Publisher: McGraw Hill Education (India) Private Limited. ISBN-10: 9390113008 ISBN-13 : 978-9390113002

Reference Books:

1. "The Essential Business Handbook: The Nuts & Bolts of Getting Up and Running Fast" by John Storey and Amelia Storey (Indian Edition)
2. "The AMA Handbook of Business Writing: The Ultimate Guide to Style, Grammar, Punctuation, Usage, Construction, and Formatting" by Kevin Wilson and Jennifer Wauson

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SKILL COURSE

SEMESTER-II **MARKETINGSKILLS**

w.e.f. AY 2023-24

Credits:2 2 hrs/week

Course Objective:

This course will help the students to develop a better appreciation and understanding of the role of marketing in a business organization specifically, and able to have operational skills of various marketing activities.

Learning Outcomes:

The learner is able to:

1. Formulate a *marketing* plan that will meet the needs or goals of a business or organization and Conduct *market research* to provide information needed to make *marketing* decisions.
2. Understand different strategies for effective design of Marketing Mix;
3. Know the Sales Skills including effective personal selling skills;

Unit I: Introduction to Marketing: (10Hrs)

Core Marketing Concepts – Company Orientation towards the Marketplace – Concepts of Marketing – Types of Marketers; Marketing Environment: Macro and Micro Components – Marketing Research and Information; Market Segmentation, Targeting and Positioning Strategies - Determinants of Consumer Behavior;

Unit II: Marketing Mix: (12 Hrs)

Elements of Marketing Mix - Product, Price, Promotion and Place, **Product:** Classification of Products - Product Life Cycle - New Product Development – Branding Decisions; **Price:** Pricing Strategies: Understanding Pricing –Steps in setting the Price – Methods of Pricing,: **Promotion**: Marketing Communications, Promotion Mix Elements: Advertising, Sales Promotion, Personal Selling, Events and Experiences, Public Relations and Publicity, Online and Social Media Marketing; **Place:** Marketing Channels: Channel Functions and Flows, Channel Management Decisions.

Unit III:

Nature and Role of Selling: (8Hrs)

Importance of Selling, Nature and Role of Selling: Importance of Selling – Attributes of a Good Salesperson: Personality and Physical Characteristics, Enthusiasm, Confidence, Intelligence, Self-Worth, Knowledge-product, Competition, Organization, Market, Customer, Territory; Communication Skills, Persuasive Skills. Personal Selling Skills: The opening – Need and problem identification–the Presentation and Demonstration – Dealing with Objections – Negotiations – Closing the Sale -follow up.

Curricular Activities:

1. Analyze different needs and wants of consumers in your locality or region
2. Prepare the prevalent marketing environment in your locality or region.
3. Identify Product Life Cycle stages of few Products like consumer durables (ex., Electronic goods, Computers, etc.).
4. Analyze Marketing strategies / planning used by automobile cosmetic and FMCG companies.
5. Conduct Market Research for the need of new products in your region.

References

1. Philip Kotler, Kevin Lane Keller, Abraham Koshy & Mithileswar Jha, *Marketing Management -A South Asian Perspective*, Pearson Education.
2. Agarwal, P.K., *Marketing Management–An Indian perspective*, Pragati Prakasham
3. KazmiSHH,*Marketing Management Text and Cases*, Excel.
4. Philip Kotler and Arm strong.G.,*MARKETING* , Prentice Hall of India,12th Edition.
5. Core Selling Skills: Because Selling Is All About People Paperback–1January2015 by Les Giblin (Author)
6. RamaswamyV.S.&NamaKumari,S.,*MarketingManagement–PlanningandControl*, Macmillan.

E-Learing Reference:

1. https://www.udemy.com/course/the-new-manager-managing-people-teams-processes/?utm_source=adwords&utm_medium=udemyads&utm_campaign=Leadership_v.NONP_la.EN_cc.INDIA&utm_term=_._ag_136108019508_._ad_606494316205_._de_c_._dm._pl._ti_kwd-295074359507_._li_9302139_._pd._&utm_term=_._pd._kw_business+management +and + leadership_._&matchtype=b&gclid=CjwKCAjww7KmBhAyEiwA5-PUSp4Q_OUYVm29rgKdiM_Oc2hfjgLJIb6F2pxFukILjqtD-JDI8-kEYxoC6W4QAvD_BwE

SKILL COURSE

w.e.f. AY 2024-25

SEMESTER-II

INVESTMENT PLANNING

Credits: 2 2 hrs/week

Course Objectives:

The objective of the course is to make the students familiarise with the concepts of investment, associated risks along with the regulatory authorities that monitor the capital market.

UNIT - I

Investment: Attributes of Investment, Investment and speculation, Features of a good Investment, Investment Process. Investment Avenues – Types. Tax saving options.

UNIT - II

Return and Risk: Meaning and Measurement of Security Returns. Meaning and Types of Security Risks- Systematic Vs Non-systematic Risk. Measurement of Total Risk - Intrinsic Value Approach to Valuation of Bonds and Shares.

UNIT - III

Portfolio: Choosing the right Investment options, Construction of Investment portfolio, and Portfolio management. Investor Protection Guidelines of SEBI– SEBI Investment Advisors Regulations.

Hands on Activities:

1. Group/Individual presentations on Investment Alternatives (Advantages, Suitabilityand Limitations).
2. Calculation of Stock Return and Risk from historical data of NSE and BSE.
3. To make comparative analysis between various stocks using excel.

References:

1. Prasanna Chandra, Investment Analysis and Portfolio Management, Tata McGraw Hill.
2. Bhalla VK, Investment Management, S.Chand.
3. Donald E.Fischer, Ronald J.Jordan, Security Analysis and Portfolio Management; Prentice Hall of Inida.j
4. Preeti Singh, Investment Management, Himalaya Publishers.
5. Pitabas Mohanty Spreadsheet Skills for Finance Professionals Taxmann Publications.

SKILL COURSE

w.e.f. AY 2023-24

SEMESTER-II

STOCK MARKET OPERATIONS

Credits: 2 2 hrs/week

Course Objectives:

This course aim at giving a comprehensive understanding on the stock market operations in terms of its structure, trading, settlement procedures, processes and related components and the regulations, emerging challenges in the Indian Stock market.

UNIT - I

Markets – Introduction- Types of Markets; Primary Market: Meaning, Functions, Intermediaries - Role of Primary Market –New Issues Market –IPO's –Recent trends in Primary Market – Secondary Market: Functions, Various Stock Exchanges in India (BSE, NSE) and Regulatory framework– SEBI– Listing conditions–Secondary Market Intermediaries.

UNIT - II

Stock Exchanges BSE, NSE & MCX –Different Trading Systems – DEMAT- Different types of Settlements –De-mat Settlement –Physical settlement - Pay-in and Pay-out –Bad Delivery –Short delivery –Auction –Market types, Order types and Books.

UNIT – III

Stock Market Indices: Meaning, Purpose, and Construction in developing Index – Methods– Stock Market Indices in India – Scrip selection criteria for BSE Sensex and NSE S&P CNX Nifty. Overview: Derivatives, Commodity and Currency market.

Hands on Activities:

1. Detailed Group/Individual presentations on current year IPOs.
2. Demonstration of Stock Trading (Simulation).
3. Practical sessions on stock market operations.

References:

1. Punithavathy Pandian, Security Analysis and Portfolio Management, Vikas Publishing House Pvt. Ltd.
2. Prasanna Chandra, Investment Analysis and Portfolio management, Tata McGraw Hill, 3rd Edn., 2008.
3. 3.V. A. Avadhani, Investment and Securities Market in India, Himalaya Publishing House.
4. Sanjeev Agarwal, A Guide to Indian Capital Market, Bharat Publishers.
5. Ravi Puliani and Mahesh Puliani, Manual of SEBI, Bharat Publication.

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SKILL COURSE
w.e.f. AY 2024-25
SEMESTER-II
Digital Literacy

Theory **Credits: 2** **2 hrs/week**

By undergoing the Digital Literacy course, one should acquire basic knowledge on Computer and he/she is able to

CO1: Perform operations on the computer
CO2: Access the Internet and finding information of interest
CO3: Register for an E-mail account and operating it
CO4: Make bill payments and use other applications of Internet CO5: Create, edit and format documents using a word processor

Course Duration: 30 Hours

Unit-1:

operate the elements of a computer and performing operations on the computer Operate the elements of a computer including power cord, power switch, network connecting cable, USB ports, Mouse operations, Keyboard operations, interface icons, GUI elements, Editing options, perform operations including switching on the computer, logging in, locating a file, opening a file, printing a document, storing a file with proper extension, creating a folder/ sub folder in a volume on hard disk and desktop, shifting files from one folder to another, shutting off the computer

Unit-2:

Access the Internet to browse information and E-mail operation Access the Internet, use a search engine, find information on the topic of interest, register for a web-based E-mail account, access E-mail with attachments, reply to an E-mail, forward an E-mail and delete an E-mail message

Unit-3:

Make bill payments, other applications using Internet and word processing Make utility bill payments, booking bus/train tickets, bank transactions, personal transactions, job search through employment portals, mobile/DTH recharge, word processing basics, creating, editing and formatting of text, saving and printing of word document

Prescribed readings:

1. Appreciation of Digital Literacy Handbook published by Department of Electronics & Information Technology, Ministry of Communications & Information Technology, Government of India

Web Resources:

1. https://youtu.be/b2X_j5Bz-VM
2. https://youtu.be/jln3-P6L2ro
3. https://youtu.be/cfDisqUMIvw
4. https://youtu.be/3h_PyURcdrc
5. https://youtu.be/EqN0LBcydBg

Note: Digital Literacy course should be taught by blending the practical demonstration of concepts with hands-on experience by learners using desktop/laptop computer and mobile handset devices