PT MOHAN LAL SD COLLEGE FOR GIRLS,

FATEHGARH CHURIAN, DISTT. GURDASPUR

Program Outcomes, Course Outcomes and Program Specific Outcomes

Principal

Mrs. Pardeep kaur

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PT. MOHAN LAL S.D. COLLEGE FOR GIRLS
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Department of Computer Science

Programme: Bachelor of Computer Applications (BCA)

Program Outcomes:

PO1: Understand the fundamental concepts of computers, software hardware and peripheral devices and evolution of computer technologies.

PO2: Understand to design, analyse and develop solutions and evaluate system components to meet specific need for local, regional and global and environmental systems.

PO3: Contribute to society in comprehending computing activities by writing reports, designing documentation, making effective presentation, and understand instructions.

PO4: Able to develop and implement ideas in multi- disciplinary environments using computing and management skills.

PO5: Ability to work in team and build leadership qualities.

PO6: Apply knowledge of computing and mathematics appropriate to the appropriate discipline.

PO7: Well. equipped with thorough knowledge of various software.

PO8: Use the knowledge of advance technologies for developing customized solutions via startups and entrepreneurship.

PO9: Apply domain knowledge and expertise for enhancing educational pursuits and research capability.

PO10: Understand the professional, ethical, legal, security, and social issues and responsibilities in computing profession.

PO11: Apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.

PO12: Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.

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Program Specific Outcomes

PSO1: Students will able to understand, analyse and develop computer programs in the areas related to algorithm, web design and networking for efficient design of computer-based system.

PSO 2: Apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.

PSO 3: Student will able to know various issues, latest trends in technology development and thereby innovate new ideas and solutions to existing problems.

Course Outcomes

Course Name: Programming in C: (L-3, T-1, P-0)

CO1: To develop logics, algorthims and program

CO2: In-depth understanding of various concepts of C language.

CO3: Ability to read, understand and trace the execution of programs.

CO4: Skill to debug a program.

CO5: Skill to write program code in C to solve real world problems.

Course Name: Introduction to Computers and Information Technology (L-3, T-1, P-0)

CO1: Understanding the concept of input and output devices of Computers

CO2: Learn the functional units and classify types of computers, how they process information and how individual computers interact with other computing systems and devices.

CO3: Understand an operating system and its working, and solve common problems related to operating systems

CO4: Learn basic word processing, Spreadsheet and Presentation Graphics Software skills

CO5: Study to use the Internet safely, legally, and responsibly

Course Name: Applied & Discrete Mathematics (L-3, T-1, P-0)

CO1: Explain different terms used in basic and discrete mathematics.

CO2: Represent data using various mathematical notions.

CO3: Describe various operations and formulas used to solve mathematical problems.

Course Name: ENL-121 Communication Skills in English – I (L-4, T-0, P-0)

CO1: To introduce students to the theory, fundamentals and tools of communication.

CO2: To help the students for attaining important reading skills as well as writing skills such as report writing and notes taking etc.

CO3: To develop vital communication skills which are integral to their personal, social and professional interactions.

CO4: Students will become proficient in professional communication such as interviews, group discussions and office environments.

Course Name: Punjabi Compulsory (L-4, T-0, P-0)

CO1: This course connects the students to their roots.

CO2: To understand literary terms generally and concepts it develops confidence to read and write an analytical thinking.

CO3: Knowledge of Punjabi language helps them to think critically while studying Punjabi literature.

CO4: Students can express their views and ideas on various topics.

Course Name: Introduction to Programming – C ++ (L-3, T-1, P-0)

CO1: Understanding of object-oriented programming principles and their application in C++.

CO2: Ability to design, develop, and debug C++ programs.

CO3: Experience with control statements, loops, arrays, strings, pointers and memory management and pointers in C++.

CO4: Awareness of coding standards, and software engineering principles to tackle real-world programming challenges and projects using C++.

Course Name: Principles of Digital Electronics (L-3, T-1, P-0)

CO1: To comprehend the fundamentals of Boolean algebra, logic gates, and digital circuits.

CO2: To design and analyses combinational and sequential logic circuits using various tools and techniques.

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CO3: Knowledge of digital communication principles, including encoding, modulation, and error detection/correction techniques.

CO4: Application of digital electronics in real-world scenarios

CO5: Understanding how digital electronics principles are applied in various fields such as computer architecture.

Course Name: Numerical Methods & Statistical Techniques (L-3, T-1, P-0)

CO1: Apply numerical methods to solve mathematical problems, including root finding, numerical integration, and solving differential equations.

CO2: Implement algorithms for interpolation and curve fitting to analyze and model data.

CO3: Utilize statistical techniques for data analysis, including descriptive statistics, hypothesis testing, and regression analysis.

CO4: Evaluate the reliability and accuracy of numerical methods and statistical techniques through error analysis.

CO5: Apply numerical optimization techniques to solve real-world engineering and scientific problems.

Course Name: ENl-122 Communication Skills in English – II (L-3, T-1, P-0)

CO1: To introduce students to the theory, fundamentals and tools of communication.

CO2: To help the students become the independent users of English language.

CO3: To develop in them vital communication skills which are integral to their personal, social and professional interactions.

Course Name: Punjabi Compulsory (L-4, T-0, P-0)

CO1: To enriches Mother Language among the students

CO2: The students know about vocabulary and basic grammar.

CO3: The students know how to study language and literature

Course Name: Drug Abuse: Problem, Management and Prevention (L-2, T-0, P-0)

CO1: Increased awareness and understanding of the physical, psychological, and social consequences of drug abuse.

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CO4: Assessment of current trends and optimal strategies in web development to ensure scalability and performance enhancements.

CO5: Construction of intricate web applications integrating server-side scripting languages and database systems.

Course Name: Operating System (L-3, T-1, P-0)

CO1: Understanding of fundamental concepts in operating systems, including processes, threads, scheduling, memory management, file systems, and I/O management.

CO2: Learn about process management, including process creation, scheduling, synchronization, and communication.

CO3: Gain knowledge of memory management techniques, including virtual memory, paging, segmentation, and memory allocation algorithms.

CO4: Explore operating system structures, kernel architecture, , system calls, and system initialization processes, CPU Scheduling and Process Scheduling.

CO5: Understand security threats and vulnerabilities and techniques for securing operating systems against malicious attacks and unauthorized access.

Course Name: JAVA Programming Language (L-3, T-1, P-0)

CO1: Understanding of fundamental programming concepts such as variables, data types, control structures (loops and conditionals), functions/methods, and object-oriented programming (OOP) principles.

CO2: Proficiency in using Java language features such as inheritance, polymorphism, and encapsulation.

CO3: Application of core Java concepts in developing basic applications and algorithms.

CO4: Evaluation of Java programming constructs to solve computational problems efficiently.

CO5: Development of a solid foundation in Java programming for further exploration of advanced topics.

CO2: Improved knowledge of different types of drugs, their effects, and potential risks associated with their use.

CO3: Enhanced skills in recognizing signs of drug abuse in oneself and others.

CO4: Development of coping strategies and refusal skills to resist peer pressure and avoid drug use.

CO5: Increased understanding of addiction as a chronic disease and the importance of seeking help for recovery.

Course Name: Computer Architecture (L-3, T-1, P-0)

CO1: Understand the basic principles and components of computer architecture, including CPU, memory, and I/O systems.

CO2: Analyze and evaluate the performance of computer systems using metrics like throughput, latency, and speedup.

CO3: Design and implement basic digital logic circuits using techniques such as Boolean algebra and logic gates.

CO4: Explain the organization and operation of different types of memory systems, including cache memory and virtual memory.

CO5: Understand the fundamentals of instruction set architecture (ISA) and memory hierarchies on system performance.

CO6: Design and implement simple pipelined processors, IOP and DMA

Course Name: Database Management Systems (L-3, T-1, P-0)

CO1: Understand the basic concepts of database management systems (L2)

CO2: Apply SQL to find solutions to a broad range of queries (L3).

CO3: Apply normalization techniques to improve database design (L3)

CO4: Analyze a given database application scenario to use ER model for conceptual design of the database

Course Name: Introduction to Python Programming (L-3, T-1, P-0)

CO1: Understanding OOP concepts such as classes, objects, inheritance, and polymorphism.

CO2: Learning how to import and use modules and packages to extend Python's functionality.

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CO3: Developing problem-solving skills and understanding basic algorithms and data structures commonly used in Python programming.

CO4: Applying Python skills to real-world projects, which reinforces learning and provides practical experience

Course Name: Data Structure and File Processing (L-3, T-1, P-0)

CO1: To gain a comprehensive understanding of fundamental data structures such as arrays, linked lists, stacks, queues, trees, graphs, and hash tables.

CO2: To analyses the time and space complexity of algorithms related to various data structures.

CO3: Understanding of file handling techniques including reading from and writing to files, parsing structured and unstructured data from files.

CO4: Proficiency in retrieving specific data from files efficiently using techniques like searching and sorting, including algorithms like binary search, quicksort, and merge sort.

CO5: Understanding of memory management techniques related to data structures and file processing, including dynamic memory allocation and deallocation, and avoiding memory leaks.

Course Name: Information Systems (L-3, T-1, P-0)

CO1: To develop a comprehensive understanding of the fundamental concepts, theories, and principles of information systems

CO2: To learn techniques for analysing and designing business processes using information systems.

CO3: knowledge of the stages of the systems development life cycle, including requirements gathering, analysis, design, implementation, testing, deployment, and maintenance.

CO4: Understanding of TPS, Office Automation, MIS and business intelligence systems support decision-making system by providing valuable information and analysis.

Course Name: Internet Applications (L-3, T-1, P-0)

CO1: To develop a comprehensive understanding of the foundational technologies that power the internet, including HTTP, HTML, CSS, JavaScript and web servers.

CO2: To acquire practical skills in web development, including designing, building, and deploying interactive web applications.

CO3: To integrate databases into web applications to store and retrieve data dynamically.

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CO4: To gain knowledge of web services and APIs (Application Programming Interfaces) for integrating external services and data into web applications.

Course Name: System Software (L-3, T-1, P-0)

CO1: Understanding of system software, including operating systems, compilers, assemblers, and device drivers.

CO2: Learn about the fundamental concepts of operating systems, including process management, memory management, file systems, input/output management, and security.

CO3: Theory and practice of compiler construction, design and implementation of assemblers and linkers.

CO4: Learn about various system software tools and utilities used for system administration, debugging, performance monitoring, and software development.

CO5: Techniques for optimizing the performance of system software, including runtime efficiency, memory usage, and disk I/O.

Course Name: Software Engineering (L-3, T-1, P-0)

CO1: Develop a comprehensive understanding of software engineering principles, SDLC, methodologies, and best practices.

CO2: To gain knowledge of software project management principles, methodologies, and tools.

CO3: Acquire skills in software design, coding and testing techniques and quality assurance practices.

CO4: Learn about project planning, estimation, scheduling, risk management, and resource allocation.

Course Name: Web Technologies (L-3, T-1, P-0)

CO1: Attainment of proficiency in web technologies such as HTML5, CSS3, and JavaScript frameworks.

CO2: Demonstrated ability to create dynamic and responsive web applications using cutting-edge web development methodologies.

CO3: Application of advanced web technologies to craft engaging user interfaces and interactive web experiences.

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Course Name: Computer Graphics (L-3, T-1, P-0)

CO1: Understanding of the fundamental principles of computer graphics, including raster and random scan, rendering techniques, colour theory, and image processing.

CO2: To implement algorithms for basic rendering, shading, and transformations.

CO3: Learn techniques for Windowing and clipping, parallel projections and Perspective projection.

Course Name: Computer Networks (L-3, T-1, P-0)

CO1: Able to comprehend the structure and function of network models such as the OSI model and the TCP/IP model.

CO2: Be familiar with commonly used network protocols and standards, including Ethernet, IPv4, IPv6, TCP, UDP, HTTP, DNS, SMTP, FTP, and others.

CO4: Understand the principles of routing and switching, including routing algorithms, routing protocols (e.g., RIP, OSPF, BGP), and switching techniques (e.g., VLANs, STP).

CO5: Basics of network security, including authentication, encryption, access control, firewalls, intrusion detection/prevention systems (IDS/IPS)

Course Name: PROJECT (L-0, T-0, P-12)

CO1: Apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.

CO2: Understanding front-end and back-end to ensure building robust, scalable, and secure applications, optimizing performance, and ensuring data integrity and privacy.

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Department of Humanities
Programme: Bachelor of Arts

PROGRAM OUTCOMES

Pt Mohan Lal SD College offers three-year undergraduate degree program with a diverse range of disciplines such as English, Political Science, Hindi, Economics, History, Music, Fine Arts, Punjabi, Hindi, Home Science, Psychology, Physical Education, Fashion Designing and Computer.

The following program outcomes reflect the broad educational goals of BA degree.

PO1 : Knowledge and Understanding

Students will understand the fundamental concepts, theories, and principles in their chosen fields. They will use this knowledge to tackle complex problems in their respective disciplines. They will be able to make well-informed decisions after evaluating and synthesizing information from various sources.

PO2: Effective Communication

Students will be able to express themselves clearly in both writing and speaking. They will use the right methods and tools to share their views and ideas clearly. Additionally, they will also collaborate and work together with their peers effectively.

PO3: Critical Thinking and Problem Solving

Students will enhance their critical thinking skills, enabling them to analyses complex problems, assess evidence and make well-founded decisions. They will apply critical thinking to address real-world challenges within their discipline. They will demonstrate creativity and innovation in problem- solving.

PO4: Ethical and Social Responsibility

Students will learn about ethical and social responsibilities by applying these to their academic work. They will become awareness of social, cultural, and environmental issues and will actively engage in sustainable practices in their communities, bringing positive social change.

PO5: Career Enhancement

Students will Enhance skills and acquire knowledge required for higher studies and a progressive career in future.

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PO6 Enhancement of research capabilities

Research skills are essential for academic and professional success. The BA program equips students with the necessary tools to conduct thorough research, critically evaluate sources, and present findings effectively.

PO7: Development of interdisciplinary knowledge:

Students are encouraged to explore different disciplines, fostering a well-rounded education that draws from various fields of study.

PO8: Life-long Learning:

Cultivates the proficiency to engage in independent, life-long and progressive learning abilities in the broadest context of changing socio- politico-economic-cultural and technological scenario.

PO9: Depth of understanding:

Demonstrate detailed knowledge and perspectives across disciplinary boundaries. Develop a detailed understanding of the current state of knowledge in one or more disciplines. Recognize the value, use and limits of multi-disciplinary learning. Cultivate an openness to consider and engage alternative research perspectives.

P10: Cognitive and Problem-Solving Skills:

The cognitive skills acquired therefore, will help the students to develop outlook regarding contemporary society, local, national and international. Students should be able to analyses complex issues and problems, evaluate evidence, and make informed decisions.

P11: Cooperation:

Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team.

P12: Multicultural Competence:

Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.

Program Specific Outcome

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PSO1: In-depth understanding of the subject matter:

The students will have comprehensive knowledge and expertise in their chosen field of study, allowing them to become subject matter experts.

PSO2 : Advanced research and analytical skills:

The students will be equipped with advanced research methodologies and analytical tools, enabling them to critically analyze information, conduct independent research, and contribute to the existing body of knowledge in their field.

PSO3: Effective communication and presentation abilities:

The students will have strong written and oral communication skills that they will effectively convey complex ideas, engage in meaningful discussions, and present their findings in a clear and compelling manner.

Course Outcome English

Course Name- Gen English (Prose & Grammar) Credit-4, L-6

CO1. This course helps in improvement in the skills of listening, speaking, reading and writing and develops creative writing skills.

CO2. It also enables them to speak about the writers and learn correct grammatical form, appropriate vocabulary and correct word order.

CO3: It enables students to speak about the poets and explain the style of the poem.

CO4: Write letters in the correct format and language.

Course Name- Gen English (Poetry & making Connections)

CO1. The students learn correct appropriate vocabulary and correct word order.

CO2. It develops creative Writing skills.

CO3. It also enables them to speak about the writers.

CO4. Students also familiar with the background of the academic writings.

Course Name Gen English (Poetry & Drama)

CO1: Critically understand and analyses poetry across a wide range of literary age and context.

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CO2. It enables students to speak about the poets and explain the style of the poem.

CO3. It helps the students to understand the genre of drama.

CO4. It helps them to understand the different types of play and drama.

Course Name Gen English (Novel and One Act Plays)

CO1. They will be able to participate in role plays and mini-talks.

CO2. Acquire a broad perspective of the novel as a literary genre and the relevant historical, geographical, and cultural identical backgrounds.

CO3. Appreciate the working of various literary devices like irony in fiction.

Course name Elective English (Poetry & Drama)

CO1. It improves English Pronunciation among students.

CO2. It also enables them to speak about the writers, explain the background of the Drama.

CO3. Provide students with an overview of how modernity was introduced in the twentieth century through drama.

CO4. Examine Ibsen's A Doll's House as it focuses on issues related to women in patriarchal institutions such as marriage

Course name - Elective English (Poetry & New Directions)

CO1. Help students explore poetry.

CO2. Show a new interweaving of the sacred and the secular subjects of poetry17th C.

CO3. Enables them to recognize new words and texts.

CO4. Learn about the new trends in English writing.

Course Name Elective English (Modern prose and New Directions)

CO1. Students will be able to express them in personal tone, collecting main idea and writing briefly.

CO2. It also improves the skills of organizing the subject matter in relevant order while listening, speaking and writing.

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CO3. Students will develop the ability to interpret and critically evaluate the meaning, subtext, and cultural context of the texts they read.

CO4. They will engage in discussions and written reflections to express their interpretations.

Course Name- Elective English (Background of English Literature, Drama & Fiction)

CO1. It enables to speak about the writers, explain the background of the story and to know the role of the characters.

CO2. Students will reflect on their personal growth as readers and thinkers throughout the course.

CO3. They will consider how their understanding of literature has evolved and how it connects to their own experiences.

Course name- English Honors (Prose)

CO1. Understand the range, significance, and scope of English Literature.

CO2. Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.

CO3. To enable them to write and appreciate different types of prose.

Course Name English Honors (Poetry)

CO1. To introduce the students to the basic elements of poetry- to enrich the students through various perspectives readings in poetry.

CO2. Develop an understanding of English poetry from the 19th and 20th centuries.

CO3. critically understand and analyses poetry across a wide range of literary age and context.

Course Name- English Honors (Drama)

CO1. Close reading of specific texts from Elizabethan drama and anti-sentimental comedy.

CO2. It also enables them to speak about the writers, explain the background of the Drama.

CO3. Understand antiquated vocabulary and structures.

Punjabi

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਪਹਿਲਾ ਸਮੈਸਟਰ ਪ੍ਰੋਗਰਾਮ ਆਉਟਕਮ

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CO.1'ਦੇ ਰੰਗ ਪੁਸਤਕ ਵਿੱਚ ਕਹਾਣੀਆਂ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.2 ਸੰਸਾਰ ਦੀਆਂ ਪ੍ਰਸਿੱਧ ਹਸਤੀਆਂ ਦੇ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਲੇਖਕਾਂ ਦੇ ਜੀਵਨ ਨੂੰ ਜਾਨਣ ਦਾ ਮੌਕਾ

CO.3 ਭਾਸ਼ਾ ਵੰਨਗੀਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸਦੇ ਬਾਰੇ ਜਾਣੂ ਕਰਾਉਣਾ

CO.5 ਪੈਰਾਂ ਰਚਨਾ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਨਾ

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਦੂਜਾ ਬੀ.ਸੀ.ਏ /ਬੀ.ਐਸ.ਸੀ ਐਫ.ਡੀ.ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਸਿਰੋਮਣੀ ਪੰਜਾਬੀ ਕਹਾਣੀ ਭਾਗ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕਹਾਣੀ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.2 ਸ਼੍ਰੋਮਣੀ ਪੰਜਾਬੀ ਕਾਵਿ ਵਿੱਚ ਗੁਰੂਆਂ ਪੀਰਾਂ ਨਾਲ ਸਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.3 ਸ਼ਬਦ ਰਚਨਾ ਦੇ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ

CO.4 ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ ਤੇ ਜਾਣੂ ਕਰਵਾਉਣਾ

ਬੀ.ਏ ਤੀਜਾ ਸਮੈਸਟਰ ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਨਾਲ ਜੁੜਨ ਦਾ ਮੌਕਾ

CO.2 ਆਧੁਨਿਕ ਇਕਾਂਗੀ ਵਿੱਚ ਵੱਖ ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨ ਦਾ ਮੌਕਾ

CO.3 ਸੰਖੇਪ ਰਚਨਾ ਅਤੇ ਅਸ਼ੁੱਧ ਸ਼ਬਦ ਜੋੜਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖਣ ਦਾ ਅਭਿਆਸ

CO.4 ਮੂਲ ਵਿਆਕਰਨਿਕ ਇਕਾਈਆਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਵਰਗੀਕਰਨ ਪੜਨ ਦਾ ਅਵਸਰ ਪ੍ਰਾਪਤ ਕਰਨਾ

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਚੌਥਾ ਪ੍ਰੋਗਰਾਮ ਆਊਟਕਮ

CO1. "ਮੇਰੀ ਜੀਵਨ ਗਾਥਾ" ਸਵੈ ਜੀਵਨੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

"CO2.ਫ਼ਾਸਲੇ "ਨਾਟਕ ਦੇ ਵਿਸ਼ੇ ਅਤੇ ਕਲਾਤਮਕ ਪੱਖ ਬਾਰੇ ਗਿਆਨ ਹੋਵੇਗਾ

CO3.ਲੇਖ ਰਚਨਾ ਕਿਵੇਂ ਕੀਤੀ ਜਾਂਦੀ ਹੈ. ਸਿੱਖਾਇਆ ਜਾਵੇਗਾ।

CO4ਅਸ਼ੁੱਧ ਸ਼ਬਦਾ ਨੂੰ ਸ਼ੁੱਧ ਕਰਨਾ ਦੱਸਿਆ ਜਾਵੇਗਾ

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CO5.ਗੁਰਮੁਖੀ ਲਿਪੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

ਬੀ.ਏ ਭਾਗ ਪੰਜਵਾਂ ਸਮੈਸਟਰ ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਚੋਣਵੀਆਂ ਪੰਜਾਬੀ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ਾ ਵਸਤੂ/ ਸਾਰ /ਅਤੇ ਕਹਾਣੀ ਕਲਾ ਨੂੰ ਜਾਣਣ ਦਾ ਮੌਕਾ

CO.2 ਏਹੁ ਹਮਾਰਾ ਜੀਵਣਾ ਨਾਵਲ ਵਿੱਚ ਵਿਸ਼ਾ ਵਸਤੂ ਅਤੇ ਪਾਤਰ ਚਿਤਰਨ ਕਰਨ ਦਾ ਮੌਕਾ

CO.3 ਪੈਰਾ ਰਚਨਾ ਅਤੇ ਸਰਲ ਅੰਗਰੇਜ਼ੀ ਪੈਰੇ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ ਕਰਨਾ ਸਿੱਖਣਾ

CO.4 ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ ਵਕਾਤਮਕ ਜੁਗਤਾਂ, ਕਾਰਕ ਤੇ ਕਾਰਕੀ ਸਬੰਧ ਜਾਨਣ ਦਾ ਅਫਸਰ ਪ੍ਰਾਪਤ ਹੋਣਾ

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਛੇਵਾਂ ਪ੍ਰੋਗਰਾਮ ਆਉਟਕਮ

CO1. "ਮੱਧਕਾਲੀ ਸਾਹਿਤ "ਪੁਸਤਕ ਵਿੱਚ ਮੱਧਕਾਲੀ ਕਵੀਆ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO2. "ਧਰਤੀਆਂ ਦੇ ਗੀਤ" ਸਫ਼ਰਨਾਮੇ ਵਿੱਚ ਉੱਥੋਂ ਦੇ ਲੋਕਾਂ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ।

CO3. ਸਾਹਿਤ ਦੇ ਰੂਪਾਂ ਦੀ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO4. ਵਿਆਕਰਣ ਦੀਆਂ ਇਕਾਈਆਂ ਬਾਰੇ ਵੇਰਵੇ ਸਹਿਤ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

Basic Punjabi

ਮੁਢੱਲੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਪਹਿਲਾ ਬੀ.ਏ /ਬੀ.ਐਸ.ਸੀ /ਬੀ. ਕਾਮ ਪ੍ਰੋਗਰਾਮ ਆਊਟਕਮ

CO.1 ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਲਿਖਣੀ ਤੇ ਪੜਨੀ ਸਿੱਖੀ

CO.3ਗੁਰਮੁਖੀ ਲਿਪੀ ਅਤੇ ਮਾਤਰਾਵਾਂ ਨਾਲ ਸਬੰਧਿਤ ਲਿਖਣਾ ਦੱਸਣਾ

CO.4 ਗੁਰਮੁਖੀ ਆਰਥੋਗਰਾਫੀ ਦੇ ਰਾਹੀਂ ਸਵਰ ਤੇ ਵਿਅੰਜਨਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ

CO.5 ਪੰਜਾਬੀ ਸ਼ਬਦ ਜੋੜ ਕਰਨੇ ਸਿਖਾਏ

CO.6 ਬਿੰਦੀ, ਟਿੱਪੀ, ਅਧੱਕ ਦੀ ਵਰਤੋਂ ਨਾਲ ਸ਼ਬਦ ਬਣਾਉਣੇ ਸਿੱਖੇ, ਸ਼ੁੱਧ ਸ਼ਬਦ ਜੋੜ ਲਿਖਵਾਏ

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਦੂਜਾ ਬੀ.ਸੀ.ਏ /ਬੀ.ਐਸ.ਸੀ.ਐਫ.ਡੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

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CO.1 ਪੰਜਾਬੀ ਸ਼ਬਦ ਬਣਤਰ ਵਿੱਚ ਨਵੇਂ ਸ਼ਬਦਾਂ ਦਾ ਨਿਰਮਾਣ ਕਰਨਾ ਦੱਸਣਾ

CO.2 ਸੰਯੁਕਤ ਸ਼ਬਦ, ਦੋਜਾਤੀ ਸਬਦ, ਮਿਸ਼ਰਤ ਸ਼ਬਦਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਣਾ

CO.3 ਇਕ ਵਚਨ ਬਹੁ ਵਚਨ ਲਿੰਗ ਵਚਨ, ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ ਬਣਾਉਣੇ ਸਿੱਖੇ

CO.4 ਰੋਜਾਨਾ ਵਰਤੀ ਜਾਣ ਵਾਲੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ ਸਿੱਖੀ

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਤੀਜਾ ਸਮੈਸਟਰ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ ਕਰਨ ਦੀ ਕਲਾ ਸਿੱਖਣਾ, ਪੈਰਾ ਰਚਨਾ ਲਿਖਣਾ

CO.2 ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕਵਿਤਾਵਾਂ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.3 ਲੇਖਕਾਂ ਦੀਆਂ ਕਹਾਣੀਆਂ ਪੜ੍ਹ ਦਾ ਅਫਸਰ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4 ਵੱਖ ਵੱਖ ਵਿਸ਼ਿਆਂ ਤੇ ਨਿਬੰਧ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ ਪ੍ਰਾਪਤ ਹੋਣਾ ਜਿਵੇਂ ਕਿ ਆਓ ਗੱਲਾਂ ਕਰੀਏ, ਮਨੁੱਖ ਕੁਦਰਤ ਦੀ ਨੇਕ ਔਲਾਦ।

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਚੌਥਾ ਸਮੈਸਟਰ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਲੇਖਕਾਂ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨੀ ਸਿੱਖਣੀ

CO.2 ਵਿਸ਼ਾ ਵਸਤੂ ਅਤੇ ਸਾਰ ਲਿਖਣ ਦਾ ਮੌਕਾ

CO.3 ਕਵੀਆਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਅਤੇ ਰਚਨਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4 ਲੇਖ ਰਚਨਾ ਅਤੇ ਅਸ਼ੁੱਧ ਸ਼ਬਦਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖਣ ਬਾਰੇ ਸਿੱਖਣਾ

ਮੁਢੱਲੀ ਪੰਜਾਬੀ ਭਾਗ ਪੰਜਵਾਂ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਲੋਕ ਕਾਵਿ ਪੜ੍ਹ ਕੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦਾ ਗਿਆਨ ਹੋਵੇਗਾ

CO.2 ਘੋੜੀਆਂ, ਸੁਹਾਗ, ਟੱਪੇ ਪੜ੍ਹਨ ਉਪਰੰਤ ਵਿਸ਼ਾਲ ਸਭਿਆਚਾਰ ਨਾਲ ਅਪਣਤ ਪੈਦਾ ਹੋਵੇਗੀ

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CO.3 ਪੰਜਾਬੀ ਦੀਆਂ ਲੋਕ ਖੇਡਾਂ ਪ੍ਰਤੀ ਬੱਚਿਆਂ ਦੀ ਰੁਚੀ ਤੋਂ ਜਾਣੂ ਹੋਣਾ

CO.4 ਲੋਕ ਖਾਣਿਆਂ ਬਾਰੇ ਵਿਸਥਾਰ ਪੂਰਵਕ ਜਾਗਰੂਕ ਹੋਣਾ

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਛੇਵਾਂ

CO1.ਪੰਜਾਬ ਦੇ ਮੇਲਿਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO2.ਪੰਜਾਬ ਦੇ ਤਿਉਹਾਰਾਂ ਨਾਲ ਜਾਣ ਪਛਾਣ ਹੋਵੇਗੀ

CO3ਪੰਜਾਬ ਦੇ ਲੋਕ ਕਾਵਿ ਰੂਪ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO4.ਪੰਜਾਬ ਦੇ ਪਹਿਰਾਵੇ ਅਤੇ ਖਾਣਿਆਂ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕੀਤਾ ਜਾਵੇਗਾ।

Elective Punjabi

ਬੀ.ਏ ਭਾਗ ਪਹਿਲਾ ਸਮੈਸਟਰ ਚੋਣਵੀਂ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਕਾਵਿ ਰੰਗ ਕਿਤਾਬ ਦੇ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕਵਿਤਾਵਾਂ ਪੜ੍ਹ ਦਾ ਅਵਸਰ ਪ੍ਰਾਪਤ

CO.2 ਪਿੰਜਰ ਨਾਵਲ ਪੜਨ ਨਾਲ 1947 ਦੇ ਵਾਪਰੇ ਦੁਖਾਂਤ ਨਾਲ ਸਬੰਧਿਤ ਗਿਆਨ ਹੋਣਾ

CO.3 ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ ਵਿੱਚ ਧੁਨੀ ਸੰਪਰਦਾਇ, ਰਸ , ਅਲੰਕਾਰ ਦੇ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4 ਅਰਥ ਵਿਗਿਆਨ ਨਾਲ ਸਬੰਧਿਤ ਸਫ਼ੇਟ ਅਤੇ ਅਪੋਹ ਸਿਧਾਂਤਾਂ ਨੂੰ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ ਪ੍ਰਾਪਤ ਹੋਣਾ

ਬੀ.ਏ ਭਾਗ ਦੂਜਾ ਸਮੈਸਟਰ ਚੋਣਵੀਂ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਨੂੰ ਜਾਨਣ ਦਾ ਮੌਕਾ

CO.2 ਸੰਸਾਰ ਦੀਆਂ ਪ੍ਰਸਿੱਧ ਕਹਾਣੀਆਂ ਪੜ੍ਹ ਦਾ ਅਫਸਰ ਪ੍ਰਾਪਤ

CO.3 ਦਫਤਰੀ ਅਤੇ ਘਰੇਲੂ ਚਿੱਠੀ ਪੱਤਰ ਲਿਖਣ ਦਾ ਮੌਕਾ ਅਭਿਆਸ, ਵਿਸ਼ਰਾਮ ਚਿੰਨ ਲਗਾਉਣੇ ਸਿੱਖੇ

CO.4 ਕੋਸ਼ਕਾਰੀ ਅਤੇ ਪੰਜਾਬੀ ਕੋਸ਼ਕਾਰੀ ਨੂੰ ਜਾਨਣ ਤੇ ਸਮਝਣ ਦਾ ਮੌਕਾ

ਬੀ.ਏ ਭਾਗ ਤੀਜਾ ਸਮੈਸਟਰ ਚੋਣਵੀਂ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

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Co1."ਸ੍ਰੋਮਣੀ ਪੰਜਾਬੀ ਕਾਵਿ "ਪੁਸਤਕ ਤੋਂ ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਤੋਂ ਜਾਣੂ ਕਰਵਾਇਆ ਜਾਵੇਗਾ

Co2."ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੀ ਸ਼ਾਹਕਾਰ "ਪੁਸਤਕ ਵਿੱਚ ਕਹਾਣੀਆਂ ਪੜ੍ਹਨ ਦੀ ਚੇਟਕ ਉਤਪੰਨ ਹੋਵੇਗੀ

Co3.ਸਾਹਿਤ ਆਲੋਚਨਾ ਨਾਲ ਸਬੰਧਤ ਮੂਲ ਸੰਕਲਪਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ

CO4.ਸਾਹਿਤ ਦੇ ਰੂਪਾਂ ਦੀਆਂ ਪਰਿਭਾਸ਼ਾਵਾਂ, ਪ੍ਰਕਿਰਤੀ ਅਤੇ ਤੱਤਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ

ਬੀ.ਏ ਭਾਗ ਚੌਥਾ ਸਮੈਸਟਰ ਚੋਣਵੀਂ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO1.ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ ਬਾਰੇ ਵਿਸਥਾਰ ਪੂਰਵਕ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO2.ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਅਤੇ ਸਭਿਆਚਾਰ ਬਾਰੇ ਗਿਆਨ ਹਾਸਲ ਕੀਤਾ ਜਾਵੇਗਾ

CO3.ਵਿਸਰਾਮ ਚਿੰਨ੍ਹਾਂ ਕਿਵੇਂ ਲਗਾਏ ਜਾਂਦੇ ਹਨ, ਸਿੱਖਿਆਇਆ ਜਾਵੇਗਾ।

CO4.ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਵੇਗੀ।

ਬੀ.ਏ ਭਾਗ ਪੰਜਵਾਂ ਚੋਣਵੀਂ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ ਪੜ੍ਹਨ ਤੇ ਔਖੇ ਅਰਥਾਂ ਦੇ ਸਰਲ ਅਰਥ ਕਰਨ ਦਾ ਗਿਆਨ ਹੋਣਾ

CO.2 'ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ 'ਪੁਸਤਕ ਨਾਲ ਨਿਬੰਧ ਦਾ ਵਿਸ਼ਾ ਤੇ ਰੂਪਕ ਪੱਖੋਂ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO.3 ਪੰਜਾਬੀ ਨਾਟਕ 'ਚੰਦਨ ਦੇ ਓਹਲੇ' ਪੜਨ ਉਪਰੰਤ ਸਮਾਜ ਦੇ ਲੋਕਾਂ ਦੀ ਫਿਤਰਤ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ। CO.4 ਕਾਵਿ ਸੰਗ੍ਰਹਿ ਰਾਹੀ ਕਵਿਤਾ ਪੜ੍ਹਨ ਦੀ ਚੇਟਕ ਲੱਗੇਗੀ।

ਬੀ.ਏ ਭਾਗ ਛੇਵਾਂ ਚੋਣਵੀਂ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO1.ਚੰਦਨ ਦੇ ਓਹਲੇ "ਨਾਟਕ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ।

CO2.ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ ।

CO3.ਵਿਹਾਰਕ ਆਲੋਚਨਾ ਕਿਵੇ ਕਰਨੀ ਹੈ?ਸਿੱਖਣ ਦਾ ਮੌਕਾ

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CO4.ਸਾਹਿਤ ਦੇ ਅਲੱਗ -ਅਲੱਗ ਰੂਪਾਂ ਬਾਰੇ ਜਾਨਣ ਦਾ ਮੌਕਾ

History

Course Name (History of India up to c.1000)

CO1. Student learns about source of ancient Indian history.

CO2. Understands Harrappan civilization.

CO3. Understands the Vedic period society polity and religions.

CO4. They will be able to analyses the Rise of Buddhism and Jainism, maurya empire.

CO5. Students learns about the establishment of Gupta Empire.

Course Name (History of India) From C1000 - A.D.1707

CO1. Students learns about the invasion of Mehmood Ghazani and battles of Muhammad ghauri .

CO2. Student acquire knowledge of establishment of the sulcate of Delhi.

CO3. Student acquire the Knowledge of khalji's and taimur Invasions.

CO4. Students acquire knowledge of the vijaynagar kingdom.

CO5. Students understand the features of Mughal administration and Maratha administration.

Course Name (History of India 1707 AD-1947)

CO1. Students acquire knowledge about foundation of British rule

CO2. Students acquire knowledge of agriculture, rise of modern industry, socio religious movements.

CO3. Students acquire knowledge about swadeshi movement and Jallianwala Bagh.

CO4. Students acquire about non -cooperation, the phase of civil disobedience and quit India movement.

CO5. Students acquire knowledge about the causes of partition of the India.

Course Name (History of the Punjab 1469AD to 1799)

CO1. Students learn about the sources of Punjab history.

CO2. Students acquire knowledge about the socio religious condition of the Punjab 1500A.D.

CO3.Students understand the Manji system and masand system.

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CO4. Students understand the causes of the martyrdom of guru Arjan dev and Guru tegh Bahadur.

CO5. Students acquire knowledge about the repression and conciliation by the Mughal governors.

Course Name (History of the world 1500 to 1956 A.D)

CO1. Students learn about the causes of Renaissance and reformation.

CO2. Student acquires knowledge of imperialism and industrial revolution.

CO3.Students acquires knowledge of causes, results and effects of First World War.

CO4. Students acquire knowledge of causes of Russian revolution.

CO5. Students acquire knowledge of internal and foreign policy of Hitler.

Course Name (History of the Punjab 1799-1966)

CO1. Students acquire knowledge about the establishment and expansion of Ranjit Singh's Kingdom.

CO2. Students understand the military administration of maharaja Ranjit Singh.

CO3. Students clear doubts about the first Anglo Sikh war and second Anglo Sikh war.

CO4. Students acquire knowledge about the causes of the gurudwara reform movement and major morchas.

CO5. Students understand about the communal politics of Punjab and the condition of Punjab after the independence.

Political Science

Course Name Principles of Political Science

CO:1 Understanding the Meaning, Nature and Scope of Political Science.

CO:2 Ability to analyze the Relationship of Political Science with Economics, History, Sociology and Psychology.

CO:3 Students will be able to comprehend and compare various Political Theories.

Course Name Modern Political Theory

CO:1 It enable the students to apply theoretical frameworks to contemporary Political systems, Political Culture and Political Socialization.

CO:2 Understanding of key concepts such as Power, Authority and Legitimacy.

CO:3 The course should cultivate students' ability to critically analyze Political Theories.

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Course Name Indian Constitution

CO:1 Understand and Significance of the Indian Constitution's drafting and adoption.

CO:2 Identify and evaluate the fundamental rights and duties enshrined in the Indian Constitution.

CO3: Evaluate the role of Constitutional bodies such as the Election Commission, Governor, state Legislature.

Course Name Indian Political System

CO:1 Understand the nature, ideologies and performance of political parties in India.

CO:2 Students will be able to understand Determinants of voting Behavior and Electoral Reforms and Emerging trends in India.

CO:3 Evaluate the basic principles and determinants of Indian Foreign Policy, non-alignment and globalization.

Course Name Comparative Political Systems

CO:1 Comparing the political systems of the UK and the USA.

CO:2 Analyzing the structures of Government and, including the roles and powers of key institution such as the executive, legislative and judicial branches.

CO:3 Comparing the mechanisms of checks and balances and separation of powers in both political systems.

Course Name International Politics

CO:1 Students should gain a solid grasp of major approaches and concepts in international politics.

CO:2 Students should acquire knowledge about major issues in international polities such as Global Environment, International Terrorism, and Emerging world order.

CO:3 understanding the different organizations: UNO, SAARC, EU and NIEO. Students are involved to understand and engage with the complex and dynamic world of international relations.

Sociology

Course Name fundamentals of Sociology

CO1: Understanding the basic concepts and theories of sociology.

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CO2: Analyzing social structures and institutions.

CO3: Examining the dynamics of social interaction and relationships.

CO4: Identifying patterns of social inequality, including race, class, gender, and sexuality.

Course Name Society in India

CO1: The course aims to provide an outline of institutions and Society in India.

CO2: Appreciating the complexity and richness of Indian society.

CO3: Understanding the diverse cultural, religious, and linguistic landscape of India.

CO4: Developing empathy and cultural sensitivity towards different communities and groups within Indian society

Course Name Social change in India

CO1: This course aims to provide Knowledge of changes in Indian society. It also gives knowledge of factors, processes and challenges of social change.

CO2: Acquiring skills to contribute positively to social change and development initiatives in India.

Course Name Social thought.

CO1: The course introduces the students to classic sociological thinkers, whose work has shaped the discipline of sociology.

CO2: Develop the ability to articulate complex sociological concepts and theories effectively through written and oral communication.

CO3: Analyze and critique sociological theories in terms of their historical context, assumptions, strengths, and limitations.

CO4: Evaluate how sociological theories contribute to our understanding of contemporary social issues and dynamics.

Course Name Social Research and scientific methods

The course is general introduction to the methodologies of sociological research and provide student elementary knowledge of the complexities of research. It emphasizes on methods of date Collection, qualitative and quantitative research and Coding.

CO1: Developing skills in sociological inquiry, including observation, analysis, and interpretation.

CO2: Critically evaluating research methods and data in sociology.

CO3: Applying sociological perspectives to contemporary social issues and problems.

CO4: Cultivating a sociological imagination to understand individual experiences within broader social context

Computer Applications

Course Name: Introduction to Computers and Information Technology (L-3, T-1, P-0)

CO1: Understanding the concept of input and output devices of Computers

CO2: Learn the functional units and classify types of computers, how they process information and how individual computers interact with other computing systems and devices.

CO3: Understand an operating system and its working, and solve common problems related to operating systems

CO4: Learn basic word processing, Spreadsheet and Presentation Graphics Software skills

CO5: Study to use the Internet safely, legally, and responsibly

Course Name: Programming in C: (L-3, T-1, P-0)

CO1: To develop logics, algorthims and program

CO2: In-depth understanding of various concepts of C language.

CO3: Ability to read, understand and trace the execution of programs.

CO4: Skill to debug a program.

CO5: Skill to write program code in C to solve real world problems.

Course Name: Fundamentals of Computer & Operating Systems (L-3, T-0, P-2)

CO1: Appreciate the role of operating system as System software.

CO2: Understand the fundamental hardware components such as shells, kernel and the role of each of these components

CO3: Understand the functions of OS, application program, and memory management techniques

CO4: Commands of UNIX and its implementation

Course Name: Database Management System through Oracle-10g & System Analysis & Design (L-3, T-0, P-2)

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CO1: Familiarization with various features and applications of Database Management system.
CO2: Acquire knowledge about database languages (DDL, DML, DCL)
CO3: Learn how to design a database by using different data models.
CO4: Understand the database handling during execution of the transactions along with concurrent access.
CO-5: Ability to perform various types of SQL queries

Course Name: Internet Applications (L-3, T-1, P-0)

CO1: To develop a comprehensive understanding of the foundational technologies that power the internet, including HTTP, HTML, CSS, JavaScript and web servers.

CO2: To acquire practical skills in web development, including designing, building, and deploying interactive web applications.

CO3: To integrate databases into web applications to store and retrieve data dynamically.

CO4: To gain knowledge of web services and APIs (Application Programming Interfaces) for integrating external services and data into web applications.

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Course Name: Data Processing (L-3, T-1, P-0)

CO1: Able to differentiate between various types of data, such as numerical, categorical, ordinal, and nominal.

CO2: Knowledge of basic statistical methods for data analysis, including descriptive statistics

CO3: Data processing techniques to real-world problems and interpret results.

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Computer Science

Course Name: Computers Fundamental &PC Software (L-3, T-0, P-0)

CO1: Understanding the concept of input and output devices of Computers

CO2: Learn the functional units and classify types of computers, how they process information and how individual computers interact with other computing systems and devices.

CO3: Understand an operating system and its working, and solve common problems related to operating systems

CO4: Learn basic word processing, Spreadsheet and Presentation Graphics Software skills

CO5: Study to use the Internet safely, legally, and responsibly

Course Name: Programming in C: (L-3, T-0, P-0)

CO1: To develop logics, algorthims and program

CO2: In-depth understanding of various concepts of C language.

CO3: Ability to read, understand and trace the execution of programs.

CO4: Skill to debug a program.

CO5: Skill to write program code in C to solve real world problems.

Course Name: Computer Oriented Numerical Methods & Statistical Methods (L-3, T-0, P-0)

CO1: Apply numerical methods to solve mathematical problems, including root finding, numerical integration, and solving differential equations.

CO2: Implement algorithms for interpolation and curve fitting to analyse and model data.

CO3: Utilize statistical techniques for data analysis, including descriptive statistics, hypothesis testing, and regression analysis.

CO4: Evaluate the reliability and accuracy of numerical methods and statistical techniques through error analysis.

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CO5: Apply numerical optimization techniques to solve real-world engineering and scientific problems.

Course Name: Data structure & Programming Language using – C ++ (L-3, T-0, P-0)

CO1: To gain a comprehensive understanding of fundamental data structures such as arrays, linked lists, stacks, queues, trees, graphs, and hash tables.

CO2: To analyse the time and space complexity of algorithms related to various data structures.

CO3: Understanding of file handling techniques including reading from and writing to files, parsing structured and unstructured data from files

CO5: Proficiency in retrieving specific data from files efficiently using techniques like searching and sorting, including algorithms like binary search, quicksort, and mergesort.

CO6: Understanding of object-oriented programming principles and their application in C++.

CO7: Ability to design, develop, and debug C++ programs.

CO8: Experience with control statements, loops, arrays, strings, pointers and memory management and pointers in C++.

CO9: Awareness of coding standards, and software engineering principles to tackle real-world programming challenges and projects using C++.

Course Name: Database Management Systems & Oracle (L-3, T-0, P-0)

CO1: Understand the basic concepts of database management systems (L2)

CO2: Apply SQL to find solutions to a broad range of queries (L3).

CO3: Apply normalization techniques to improve database design (L3)

CO4: Analyze a given database application scenario to use ER model for conceptual design of the database

Economic

Course Name: Micro- economic

CO1: Analyze supply and demand dynamics to predict market equilibrium in microeconomic contexts.

CO2: Evaluate consumer behavior and its impact on pricing strategies in microeconomic environments.

CO3. Demonstrate proficiency in applying microeconomic theories to real-world economic issues and policy analysis.

CO4. Utilize mathematical and graphical tools to model and interpret microeconomic phenomena.

CO5. Critically assess market structures and their implications for resource allocation and efficiency in microeconomic systems.

Course Name: Macro-Economic

CO1. Analyze and interpret macroeconomic data to evaluate economic trends and policies.

CO2. Apply macroeconomic theories to understand and predict changes in national and global economies.

CO3. Evaluate the impact of fiscal and monetary policies on macroeconomic indicators and economic stability.

CO4. Demonstrate an understanding of the relationship between macroeconomic factors such as inflation, unemployment, and economic growth.

CO5. Develop recommendations for policymakers based on a comprehensive analysis of macroeconomic principles and real-world economic scenarios.

Course Name: Indian Economy

CO 1. Analyze key economic policies and their impact on India's GDP growth and employment rates.

CO 2. Evaluate the role of entrepreneurship in driving innovation and economic development in India.

CO 3. Critically assess the impact of globalization on India's economy, including trade agreements and foreign investment.

CO 4. Examine the challenges and opportunities of sustainable development in the context of Indian economic growth.

CO 5. Apply economic theories and models to analyze current economic trends and forecast future scenarios for India's economy.

Course Name: International trade and public finance

CO 1. Understand the principles of international trade and their impact on public finance.

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CO 2. Analyze the role of government policies in shaping international trade dynamics and fiscal strategies.

CO 3. Evaluate the effects of globalization on public revenue, expenditure, and budgetary management.

CO 4. Apply economic theories to assess trade agreements and their implications for fiscal policy.

CO 5. Develop strategies for managing international trade challenges while maintaining fiscal stability and public welfare.

Course Name: Economics of Development

CO1. Analyze the role of economic policies in fostering sustainable development.

CO2. Evaluate the impact of globalization on developing economies.

CO3. Apply economic theories to understand poverty alleviation strategies.

CO4. Critically assess the relationship between environment and economic development.

CO5. Demonstrate knowledge of development indicators and their implications for policymaking.

Course Name: Quantitative methods for economists

CO 1. Apply quantitative techniques to analyze economic data and make informed decisions.

CO 2. Interpret and evaluate economic models using statistical tools and methods.

CO 3. Develop proficiency in econometric analysis for forecasting and policy evaluation.

CO 4. Utilize mathematical models to understand and solve economic problems.

CO 5. Communicate complex economic concepts effectively through data visualization and analysis.

to their advantage during performances.

Physical Education

Course name physical education semester 1 and 2 (L: 3 T:0 P:0)

CO1 Physical education helps students develop strength, endurance, flexibility, and cardiovascular fitness through various activities and exercises.

CO2 The Olympics promote international cooperation, understanding, and friendship among nations. Athletes, spectators, and officials from diverse backgrounds come together to participate in a spirit of fair play and mutual respect

CO3The human body could include understanding its anatomical structure, physiological functions, biochemical processes, and their interrelationships within the context of health and disease.

CO4 Doping in sports could include understanding the ethical, legal, and health implications of doping, recognizing prohibited substances and methods, and implementing strategies for prevention and detection within the sports industry.

CO5 Communicable disease in one point could be: Understanding the epidemiology, transmission routes, prevention strategies, and public health implications of communicable diseases.

Course name physical education semester 3 and 4

CO1. Learning can be summarized as the knowledge, skills, and competencies that a learner is expected to gain by the end of a course or program.

CO2. Factors affecting sports performance in psychology can be described as understanding how psychological factors such as motivation, anxiety, focus, confidence, and goal-setting impact an athlete's performance in sports.

CO3. Yoga can be summarized as developing a holistic understanding of yoga philosophy, asanas (postures), pranayama (breath control), meditation, and relaxation techniques to enhance physical, mental, and spiritual well-being.

CO4 Different human body systems is to gain a comprehensive understanding of their structure, function, interconnections, and how they contribute to overall health and well-being.

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CO5 Effective treatment and rehabilitation lead to reduced pain, improved function, and a quicker return to sports activities.

Course name physical education 5 and 6

CO1. Muscular contraction is to understand the physiological mechanisms involved in muscle contraction, including the role of actin, myosin, calcium ions, and ATP in the sliding filament theory, as well as how different types of muscle contractions contribute to movement and force generation in the human body.

CO2. Sports training is to equip individuals with the knowledge, skills, and techniques necessary to design and implement effective training programs that optimize athletic performance, prevent injuries, and enhance overall physical fitness and sports-specific skills.

CO3. Different types of tournaments is to understand the structures, formats, rules, and strategies associated with various tournament styles, including single-elimination, double-elimination, round-robin, and knockout tournaments, and how these formats impact competition and outcomes in different sports and games.

CO4. Kinesiology is to develop a deep understanding of human movement, biomechanics, anatomical structures, physiological principles, and motor control, with applications in sports performance, rehabilitation, ergonomics, and physical education.

CO5. Therapeutic exercise is to equip learners with the knowledge and skills to design and implement exercise programs that promote rehabilitation, improve functional abilities, prevent injuries, and enhance overall health and well-being for individuals with various musculoskeletal, neurological, cardiopulmonary, or metabolic conditions.

FDGC

Course Name: - **fashion designing and garment construction theory**

CO1 .Understanding of garment construction techniques and principles.

CO2. Proficiency in pattern making and drafting.

CO3. Ability to interpret and follow fashion sketches and technical drawings.

PROGRAM OUTCOMES

Master of Arts (Punjabi)

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ਐਮ.ਏ ਪੰਜਾਬੀ ਦੇ(ਪ੍ਰੋਗਰਾਮ ਆਊਟਕਮ)

PO1.ਐਮ. ਏ ਪੰਜਾਬੀ ਕਰਨ ਤੋਂ ਬਾਅਦ ਐਮ.ਫਿਲ, ਯੂ.ਜੀ.ਸੀ ਕਰ ਸਕਦੇ ਹੋ।

PO2.ਪੰਜਾਬੀ ਦੇ ਕਿਸੇ ਅਖ਼ਬਾਰ ਦੇ ਸੰਪਾਦਕ, ਨਿਊਜ਼ ਰਿਪੋਰਟ ਬਣ ਸਕਦੇ ਹੋ।

PO3.ਵਿਦੇਸ਼ ਵਿੱਚ ਪੜ੍ਹਾਉਣ ਦਾ ਮੌਕਾ।

PO4.ਰੇਡੀਓ ਜਾ ਟੀਵੀ ਚੈਨਲਾਂ ਵਿੱਚ ਬੈਕ ਸਾਈਡ ਜਾਂ ਫਰੰਟ ਤੇ ਕੰਮ ਕਰਨ ਦਾ ਮੌਕਾ।

PO5. ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਦਫ਼ਤਰਾਂ ਵਿੱਚ ਨੌਕਰੀਆਂ।

PO6.ਅਨੁਵਾਦਿਕ ਦੀ ਨੌਕਰੀ।

PO7.ਸ਼੍ਰੋਮਣੀ ਗੁਰਦੁਆਰਾ ਪ੍ਰਬੰਧਕੀ ਕਮੇਟੀ, ਅੰਮ੍ਰਿਤਸਰ ਦੇ ਅਧੀਨ ਸਕੂਲ ਤੇ ਕਾਲਜਾਂ ਵਿੱਚ ਅਧਿਆਪਕ ਤੇ ਕਲਰਕ ਦੀ ਨੌਕਰੀ।

PO8.ਗੁਰਦੁਆਰਿਆਂ ਵਿੱਚ ਕਥਾਵਾਚਕ ਤੇ ਕਲਰਕ ਦੀ ਨੌਕਰੀ।

PO9 ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਚੰਗੇ ਟਾਈਪ ਰਾਈਟਰ ਬਣ ਸਕਦੇ ਹੋ।

PO10.ਐਮ. ਏ ਤੋਂ ਬਾਅਦ ਉੱਚ ਵਿਦਿਆ ਪ੍ਰਾਪਤ ਕਰਕੇ ਸਕੂਲਾਂ, ਕਾਲਜਾਂ ਤੇ ਯੂਨੀਵਰਸਿਟੀਆਂ ਵਿੱਚ ਅਧਿਆਪਕ ਲੱਗਣ ਦਾ ਮੌਕਾ।

PO11.ਪਰੂਫ ਰੀਡਰ ਬਣ ਸਕਦੇ ਹੋ।

PO12.ਐਮ. ਏ ਕਰਨ ਤੇ ਆਪਣੇ ਅਮੀਰ ਸੱਭਿਆਚਾਰ, ਭਾਸ਼ਾ ਦੇ ਵਿਰਸੇ ਤੋਂ ਜਾਣੂ ਹੋਣ ਦਾ ਮੌਕਾ ਮਿਲੇਗਾ।

PO13.ਗੁਰਬਾਣੀ ਦਾ ਸ਼ੁੱਧ ਉਚਾਰਨ ਕਰ ਸਕਦੇ ਹੋ।

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PO14.ਅਜੋਕੇ ਸਮੇਂ ਵਿੱਚ ਮੋਬਾਇਲ ਤੇ ਕੰਪਿਊਟਰ ਵਿੱਚ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨਾਲ ਸਬੰਧਿਤ ਨੌਕਰੀਆਂ

PO15.ਟੀ. ਵੀ ਤੇ ਰੇਡੀਓ ਵਿੱਚ ਅਨਾਊਸਰ ਬਣ ਸਕਦੇ ਹੋ।

ਐਮ.ਏ ਪੰਜਾਬੀ ਦੇ (ਪ੍ਰੋਗਰਾਮ ਸਪੇਸੀਫਿਕ ਆਊਟਕਮ)

PSO1.ਭਾਸ਼ਾ ਵਿਭਾਗ ਪੰਜਾਬ ਵਿੱਚ ਪੰਜਾਬੀ ਦੀਆਂ ਬੇਸ਼ੁਮਾਰ ਨੌਕਰੀਆਂ ।

PSO2.ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਵਿਦਵਾਨ ਬਣ ਸਕਦੇ ਹੋ ।

PSO3.ਅਜੋਕੇ ਸਮੇਂ ਵਿੱਚ ਮੋਬਾਇਲ ਤੇ ਕੰਪਿਊਟਰ ਵਿੱਚ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਨਾਲ ਸਬੰਧਿਤ ਨੌਕਰੀਆਂ ।

PSO4 ਸੋਸਲ ਮੀਡੀਆ ਵਿੱਚ ਸ਼ੁੱਧ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਉਚਾਰਨ ਕਰ ਗਏ ਧਾਂਕ ਜਮਾ ਸਕਦੇ ਹੋ ।

ਗੁਰਮਤਿ ਕਾਵਿ-1

CO.1 ਧਾਰਮਿਕ ਸਾਹਿਤ ਪੜ੍ਹਨਾ ਆਸਾਨ

CO.2 ਗੁਰਬਾਣੀ ਦਾ ਸ਼ੁੱਧ ਉਚਾਰਨ

CO.3 ਧਾਰਮਿਕ ਸਾਹਿਤ ਨਾਲ ਜੁੜਨਾ ਆਸਾਨ

CO.4 ਪਰਮਾਤਮਾ ਦੇ ਅਗੰਮ ਸਰੂਪ ਬਾਰੇ ਗਿਆਨ

ਪੰਜਾਬੀ ਸੂਫ਼ੀ ਕਾਵਿ-2

CO.1 ਸੂਫੀ ਕਾਵਿ ਕੀ ਹੈ? ਜਾਨਣ ਦਾ ਮੌਕਾ

CO.2 ਸੂਫੀ ਸਾਹਿਤ ਵਿੱਚੋਂ ਮੁਸਲਮਾਨ ਧਰਮ ਬਾਰੇ ਜਾਨਣ ਦਾ ਮੌਕਾ

CO.3 ਸੂਫੀ ਦੇ ਸੰਕਲਪ ਤੋਂ ਜਾਣੂ ਹੋਣਾ

CO.4 ਪੰਜਾਬੀ ਸੂਫੀਕਾਰਾਂ ਬਾਰੇ ਜਾਨਣ ਦਾ ਮੌਕਾ

ਸਾਹਿਤ ਸਿਧਾਂਤ ਅਤੇ ਕਾਵਿ ਸ਼ਾਸਤਰ-3

CO.1 ਸਾਹਿਤ ਦੇ ਸਿਧਾਂਤਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਾ

CO.2 ਕਿਸੇ ਵੀ ਸਾਹਿਤ ਰੂਪ ਦੀ ਆਲੋਚਨਾ ਕਿਵੇਂ ਕਰਨੀ? ਜਾਨਣ ਦਾ ਮੌਕਾ

CO.3 ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ ਦੇ ਸੰਕਲਪਾ ਬਾਰੇ ਗਿਆਨ

CO.4 ਕਾਵਿ ਸ਼ਾਸਤਰਾਂ ਦੀ ਪੁਰਾਤਨਾ ਦਾ ਗਿਆਨ

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ਲੋਕਧਾਰਾ ਤੇ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ-4

CO.1 ਲੋਕਧਾਰਾ ਕੀ ਹੈ? ਜਾਨਣ ਦਾ ਮੌਕਾ

CO.2 ਆਪਣੇ ਸੱਭਿਆਚਾਰ ਬਾਰੇ ਵਿਸ਼ਾਲ ਗਿਆਨ ਦਾ ਮੌਕਾ

CO.3 ਕਲਚਰ ਨਾਲ ਜੁੜਨ ਦਾ ਮੌਕਾ

CO.4 ਲੋਕਧਾਰਾ ਦੇ ਨਿਕਾਸ ਦੇ ਵਿਕਾਸ ਬਾਰੇ ਗਿਆਨ।

ਤੁਲਨਾਤਮਕ ਭਾਰਤੀ ਸਾਹਿਤ: ਸਿਧਾਂਤ ਦੇ ਵਿਹਾਰ-5

CO.1 ਤੁਲਨਾਤਮਕ ਸਿਧਾਂਤ ਬਾਰੇ ਜਾਣਨ ਦਾ ਮੌਕਾ

CO.2 ਦੋ ਸਾਹਿਤ ਰੂਪਾਂ ਦਾ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਕਿਵੇਂ ਕਰਨਾ, ਸਿੱਖਣ ਦਾ ਮੌਕਾ।

CO.3 ਰਾਸ਼ਟਰੀ ਤੇ ਅੰਤਰਰਾਸ਼ਟਰੀ ਸਾਹਿਤ ਰੂਪਾਂ ਦਾ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਬਾਰੇ ਜਾਣਨ ਦਾ ਮੌਕਾ ।CO.4ਪ੍ਰੈਕਟੀਕਲ ਵਰਕ ਕਰਨ ਦਾ ਮੌਕਾ

ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ-6

CO.1 ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ ਪੜਨ ਦਾ ਮੌਕਾ

CO.2 ਆਧੁਨਿਕ ਅਤੇ ਮੱਧਕਾਲੀ ਕਾਵਿ ਦਾ ਅੰਤਰ- ਵੱਖਰੇਵਾਂ ਜਾਨਣ ਦਾ ਮੌਕਾ

CO.3 ਕਵਿਤਾ ਦੇ ਖੇਤਰ ਵਿੱਚ ਸ਼ਬਦ ਭੰਡਾਰ ਵਿੱਚ ਵਾਧਾ

CO.4 ਕਵੀ ਕਿਵੇਂ ਸਾਹਿਤ ਰਚਦਾ ਹੈ, ਜਾਨਣ ਦਾ ਮੌਕਾ

ਪੰਜਾਬੀ ਨਾਵਲ-7

CO.1 ਪੰਜਾਬੀ ਨਾਵਲ ਦੇ ਨਿਕਾਸ ਦੇ ਵਿਕਾਸ ਬਾਰੇ ਜਾਣਨ ਦਾ ਮੌਕਾ

CO.2 ਆਪਣੀ -ਆਪਣੀ ਰੁਚੀ ਅਨੁਸਾਰ ਨਾਵਲਾਂ ਨੂੰ ਚੁਣਨ ਦਾ ਮੌਕਾ

CO.3 ਨਾਵਲ ਸਾਹਿਤ ਰਾਹੀ ਆਪਣੇ ਚੋਗੇਰਦੇ ਨੂੰ ਜਾਨਣ ਦਾ ਮੌਕਾ CO.4 ਨਾਵਲ ਦੀ ਕਹਾਣੀ ਨੂੰ ਕਿਵੇਂ ਬੁਣਿਆ ਜਾਂਦਾ ਹੈ, ਸਿੱਖਣ ਦਾ ਮੌਕਾ

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਭਾਸ਼ਾ ਵਿਗਿਆਨ-8

CO.1 ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਵਿਆਕਰਨ ਸੰਕਲਪਾਂ ਨੂੰ ਜਾਣਣ ਦਾ ਮੌਕਾ

CO.2 ਪੱਛਮੀ ਭਾਸ਼ਾ ਦੇ ਵਿਆਕਰਣ ਨੂੰ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.3 ਭਾਸ਼ਾ ਦੇ ਅਲੱਗ- ਅਲੱਗ ਨਿਯਮਾਂ ਨੂੰ ਜਾਨਣ ਦਾ ਮੌਕਾ

CO.4 ਪੱਛਮੀ, ਹਿੰਦੀ ਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਅੰਤਰ ਬਾਰੇ ਜਾਨਣ ਦਾ ਮੌਕਾ

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CO1.ਪ੍ਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ।

CO2.ਪ੍ਰਵਾਸੀ ਸਾਹਿਤ ਵਿੱਚੋਂ ਪ੍ਰਵਾਸੀਆਂ ਦੀਆਂ ਵਿਡੰਬਨਾਵਾਂ ਜਾਨਣ ਦਾ ਮੌਕਾ

CO3.ਭਾਰਤ ਵਿੱਚ ਰਹਿੰਦਿਆਂ ਵਿਦੇਸ਼ਾਂ ਵਿੱਚ ਭਾਰਤੀਆਂ ਦਾ ਭੂ -ਹੇਰਵਾ ਬਾਰੇ ਜਾਨਣ ਦਾ ਮੌਕਾ

CO4.ਪ੍ਰਵਾਸੀਆਂ ਦਾ ਆਪਣੇ ਸਭਿਆਚਾਰ ਤੇ ਮਿੱਟੀ ਪ੍ਰਤੀ ਖਿੱਚ ਨੂੰ ਜਾਨਣ ਦਾ ਮੌਕਾ

Programme: Diploma in food production

Program outcomes:

PO1: Implementing practices to ensure food safety and prevent contamination during production process.

PO2: Maintaining consistent quality standards for food products through proper handling, storage, and processing methods.

Po3: Promoting environmentally sustainable practices in food production, such as reducing waste and conserving resources.

PO4: Optimizing production processes to increase efficiency and reduce costs while maintaining quality standards.

PO5: Ensuring compliance with food safety regulations, industry standards, and certifications.

PO6: Developing new food products or improving existing ones to meet consumer demands and market trends.

PO7: Supply Chain Management: Managing the supply chain effectively to ensure timely and efficient delivery of raw materials and finished products.

po8: Ensuring a safe and healthy work environment for employees while promoting productivity and skill

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Program outcomes for cosmetology:

Program Outcomes:

PO1. Technical Proficiency: Students will demonstrate mastery in a variety of cosmetology techniques including hair cutting, styling, coloring, chemical treatments, skincare, makeup application, and nail care.

PO 2. Safety and Sanitation Practices: Students will adhere to strict safety and sanitation protocols to ensure the well-being of clients and practitioners in salon settings.

PO3. Client Communication and Consultation: Students will develop effective communication skills to consult with clients, understand their preferences, and deliver personalized beauty services.

PO4 Product Knowledge and Application: Students will gain a comprehensive understanding of beauty products, tools, and equipment, and how to select and apply them appropriately for different treatments.

PO5 Creative Expression: Students will demonstrate creativity and artistic expression in designing hairstyles, makeup looks, nail art, and other beauty treatments, while also staying informed about current trends.

PO6. Anatomy and Physiology: Students will acquire knowledge of the anatomy and physiology of the skin, hair, and nails, as well as common health conditions that may affect these areas.

PO7 Ethical and Professional Conduct: Students will adhere to ethical standards, maintain professionalism, respect client confidentiality, and comply with legal and regulatory requirements in the cosmetology industry.

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PO8. Business Management Skills: Students will learn basic business principles, including salon management, customer service, retail sales, marketing, and financial management.

PO9 Continuing Education: Students will understand the importance of ongoing learning and professional development to stay updated on industry trends and techniques.

PO10 Teamwork and Collaboration: Students will work effectively in team settings, collaborating with peers and industry professionals to deliver high-quality beauty services

Program specific outcomes for Cosmetology:

PSO1. Proficiency in Techniques: Graduates will demonstrate mastery in a range of cosmetology techniques including hair cutting, styling, coloring, chemical treatments, skincare, and makeup application.

PSO2. Client Interaction and Satisfaction: Graduates will effectively communicate with clients to assess their needs, provide tailored recommendations, and ensure satisfaction with services rendered, fostering client loyalty and positive word-of-mouth referrals.

PSO3. Safety and Sanitation Compliance: Graduates will adhere to strict safety and sanitation protocols to maintain a clean, hygienic environment, ensuring the well-being of both clients and practitioners and complying with industry standards and regulations.

PSO4. Professionalism and Business Acumen: Graduates will exhibit professionalism in all aspects of their work, including punctuality, appearance, and ethical conduct. They will also demonstrate an understanding of basic business principles relevant to the cosmetology industry, such as customer service, retail sales, and appointment management.

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Course Outcomes

Course Name: Fundamental knowledge of Cosmetology

CO1. Foundational Understanding of Anatomy and Physiology: Students will demonstrate a basic comprehension of human anatomy and physiology relevant to cosmetology, including the structure and function of the skin, hair, and nails, enabling them to understand how various treatments and products interact with the body.

CO2. Knowledge of Cosmetology Tools and Equipment: Students will be familiar with the use and maintenance of common cosmetology tools and equipment such as scissors, razors, brushes, styling implements, and electrical appliances, ensuring safe and effective use in practice.

CO3. Understanding of Chemical Processes and Product Chemistry**: Students will gain insight into the chemical processes involved in cosmetology treatments such as hair colouring, perming, and chemical relaxing, as well as the chemistry of cosmetics and skincare products, enabling them to make informed decisions regarding product selection and application techniques.

CO4. Introduction to Industry Standards and Regulations: Students will develop an awareness of industry standards, regulations, and licensing requirements governing cosmetology practices, ensuring compliance with legal and ethical guidelines and laying the groundwork for professional integrity and accountability.

Course Name: Hair& Beauty Treatment

CO1. Proficiency in Hair Styling Techniques: Students will demonstrate proficiency in a variety of hair styling techniques including blowouts, curling, straightening, braiding, and updos, enabling them to create a diverse range of looks for clients with different hair typesand preferences.

CO2. Skill in Hair Colouring and Chemical Treatments: Students will develop the skills necessary to perform hair colouring techniques such as highlights, lowlights, balayage, and ombre, as well

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as chemical treatments including perms and relaxers, ensuring they can meet clients' colour and texture transformation needs safely and effectively.

CO 3. Expertise in Skincare and Makeup Application: Students will acquire expertise in skincare techniques such as cleansing, exfoliation, masking, and moisturizing, as well as makeup application skills including foundation matching, contouring, eyeshadow blending, and lipstick application, enabling them to enhance clients' natural beauty and address specific skin concerns.

CO 4. Client Consultation and Communication Skills: Students will develop the ability to conduct thorough client consultations, including assessing skin and hair condition, understanding client preferences and lifestyle factors, and recommending appropriate treatments and products. They will also enhance their communication skills to effectively convey information, address client concerns, and ensure satisfaction with services rendered.

Course Name: Yoga & Hair

CO 1. Integration of Yoga Principles into Haircare Practices: Students will learn how to incorporate principles of yoga such as mindfulness, breathing techniques, and relaxation exercises into haircare routines to promote overall well-being and enhance the client's experience.

CO 2. Understanding the Scalp-Hair Connection: Students will gain knowledge about the relationship between scalp health and hair condition, learning how yoga practices can improve scalp circulation, reduce stress-related hair loss, and promote healthy hair growth.

CO 3. Yoga-Based Scalp Treatments: Students will develop skills in performing yoga- inspired scalp treatments, including massages, acupressure techniques, and aromatherapy, to nourish the scalp, stimulate hair follicles, and alleviate scalp conditions such as dryness, dandruff, and inflammation.

CO 4. Client Education and Wellness Promotion: Students will learn how to educate clients about the benefits of integrating yoga practices into their haircare routines, empowering them to take a holistic approach to hair health and overall wellness. They will also develop strategies for promoting mindfulness and stress reduction techniques that contribute to healthy hair growth and vitality.

Course Name: Hair styling & Shaping.

CO 1. Proficiency in Hair Cutting Techniques: Students will develop proficiency in a variety of hair cutting techniques including precision cuts, layering, graduation, and texturizing, enabling them to create tailored hairstyles that suit clients' face shapes, hair types, and personal preferences.

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CO 2. Mastery of Hair Styling Skills: Students will master a range of hair styling techniques such as blowouts, curling, straightening, braiding, and updos, allowing them to transform hair into diverse and fashionable looks for various occasions and clientele.

CO 3. Understanding of Face Shapes and Hair Design Principles: Students will gain an understanding of facial anatomy and hair design principles, learning how to analyze clients 'face shapes and features to determine the most flattering haircuts and styles that enhance their natural beauty.

CO4.Creativity and Innovation in Hair Design: Students will cultivate creativity and innovation in hair design, exploring trends, experimenting with new techniques, and developing their signature styles to offer clients unique and personalized hair services.

Course Name: Makeup

CO 1. Technical Proficiency in Makeup Application: Students will develop technical proficiency in makeup application techniques, including foundation matching, contouring, highlighting, eyeshadow blending, eyeliner application, eyebrow shaping, lipstick application, and blush placement, ensuring the ability to create a variety of looks for different occasions and clientele.

CO 2. Understanding of Facial Anatomy and Skin Type: Students will gain an understanding of facial anatomy and various skin types, learning how to assess clients' skin conditions and concerns to select appropriate products and techniques that enhance their natural features while addressing specific skincare needs.

CO 3. Knowledge of Makeup Products and Tools: Students will acquire knowledge about different makeup products, tools, and their uses, including brushes, sponges, palettes, primers, foundations, concealers, powders, eyeshadows, eyeliners, mascaras, lipsticks, and setting sprays, ensuring proficiency in product selection, application, and hygiene practices.

CO 4. Creativity and Artistry in Makeup Design: Students will cultivate creativity and artistry in makeup design, exploring color theory, texture, and trends to develop their signature styles and offer clients unique and personalized makeup services for various events and media platforms.

Course Name: Chemical and physical work

CO 1. Understanding of Chemical Processes: Students will develop a comprehensive understanding of chemical processes involved in cosmetology treatments, including haircoloring,

perming, relaxing, and chemical hair treatments, as well as the underlying principles of chemical reactions and their effects on hair structure and texture.

CO 2. Proficiency in Chemical Formulation and Application: Students will acquire proficiency in formulating and applying chemical treatments safely and effectively, including accurate measurement, mixing, timing, and application techniques to achieve desired results while minimizing damage to the hair and scalp.

CO 3. Knowledge of Product Chemistry and Safety Precautions: Students will gain knowledge about the chemistry of cosmetology products, including hair dyes, bleaches, relaxers, and other chemical agents, as well as safety precautions and regulations governing their use to ensure client safety and compliance with industry standards.

CO 4. Understanding of Physical Properties and Styling Techniques: Students will learn about the physical properties of hair, such as elasticity, porosity, texture, and density, and how they influence styling techniques and product selection. They will also develop skills in using heat styling tools, such as flat irons, curling iro

Department of Sciences

Programme: Bachelor of Science (Medical/ Non-Medical)

Program Outcomes:

PO1: Students should possess a strong understanding of fundamental medical sciences such as anatomy, physiology, biochemistry, pharmacology, pathology, and microbiology.

PO2: Graduates should have a deep understanding of the core concepts, theories, and principles within their chosen scientific discipline.

PO3: Graduates should be proficient in designing and conducting scientific experiments, collecting, and analysing data, and drawing valid conclusions from empirical evidence.

PO4: Graduates should be proficient in accessing, evaluating, and synthesizing information from various sources, including scientific literature, databases, and digital resources.

PO5: Graduates should demonstrate an understanding of ethical principles and practices in scientific research and professional conduct, including issues related to integrity, objectivity, and social responsibility.

PO6: Graduates should be able to work effectively as part of interdisciplinary teams, demonstrating leadership, cooperation, and respect for diverse perspectives and expertise.

PO7: Graduates should recognize the importance of continuous learning and professional development, staying abreast of advancements in their field and adapting to new technologies and methodologies throughout their careers.

PO8: Graduates should be able to apply their scientific knowledge and skills to real-world problems, making meaningful contributions to society, industry, healthcare, environmental sustainability, or other relevant areas.

PO9: Graduates should be well-prepared either to pursue further education at the graduate level or to enter the workforce in positions related to their field of study, demonstrating the competence and confidence needed for success in their chosen career paths.

PO10: For students intending to enter the workforce directly after completing their Bachelor of Science program, the curriculum should include practical experiences, internships, or clinical rotations to prepare them for entry-level positions in healthcare or biomedical research.

PO11: Graduates should have a solid understanding of fundamental biomedical sciences such as microbiology, immunology, pharmacology, pathology, and biochemistry.

PO12: Graduates should recognize the importance of lifelong learning and staying abreast of advancements in medical sciences.

Program Specific Outcomes

PSO1: Identify, classify, and describe the diversity of animal life, including their evolutionary relationships, adaptations, and ecological roles.

PSO 2: The students completing the course is able to understand different branches of Botany such as systematics, evolution, ecology, developmental Biology, physiology, biochemistry, morphology, anatomy, reproduction in plants etc.

PSO 3: Evaluate the impact of human activities on biological systems and propose strategies for conservation, sustainability, and environmental stewardship.

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Course Name:(INORGANIC CHEMISTRY–I)

CO1: Students should have a comprehensive understanding of atomic structure, including the organization of electrons within atoms, periodic trends, and the behavior of different elements in the periodic table.

CO2: Knowledge of the properties, reactions, and applications of key groups of inorganic compounds, including main group elements, transition metals, coordination compounds, and organometallic complexes.

CO3: Understanding of thermodynamic principles applied to inorganic systems, including entropy, enthalpy, Gibbs free energy, and their relationship to equilibrium constants and reaction rates.

CO4: Understanding of coordination compounds, including the structures of metal complexes, ligand field theory, crystal field theory, and the role of coordination chemistry in catalysis, bioinorganic chemistry, and materials science.

CO5: Understanding of the applications of inorganic chemistry in various fields, including materials science, catalysis, environmental chemistry, pharmaceuticals, and industrial processes.

Course Name: (ORGANIC CHEMISTRY–I)

CO1: Familiarity with spectroscopic techniques used in the characterization of organic compounds, including infrared (IR), nuclear magnetic resonance (NMR), mass spectrometry (MS), and UV-Vis spectroscopy, and interpretation of spectral data.

CO2: Overview of the principles of polymer chemistry, including polymerization reactions, polymer structure and properties, polymer characterization techniques, and the applications of polymers in materials science and industry.

CO3: Understanding of the concept of aromaticity and the properties of aromatic compounds, including benzene and its derivatives, as well as electrophilic aromatic substitution reactions.

CO4: Proficiency in naming organic compounds according to the rules of systematic nomenclature (IUPAC) and common names, including alkanes, alkenes, alkynes, cyclic compounds, and functional groups.

CO5: Knowledge of conjugated systems, delocalized pi electrons, and molecular orbital theory as applied to the stability and reactivity of conjugated molecules and aromatic compounds.

CO6: Understanding of the applications of organic chemistry in various fields, including pharmaceuticals, agrochemicals, materials science, biochemistry, and environmental chemistry.

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Course Name:(PHYSICAL CHEMISTRY–I)

CO1: Mastery of the principles of thermodynamics, including the laws of thermodynamics, entropy, enthalpy, free energy, and their applications to chemical systems in equilibrium and non-equilibrium states.

CO2: Knowledge of quantum mechanics principles applied to atoms and molecules, including wave functions, quantum numbers, Schrödinger equation, particle-in-a-box model, and the hydrogen atom.

CO3: Knowledge of phase equilibria, phase diagrams, phase transitions, vapor-liquid equilibrium, and the application of thermodynamics to the study of phase behavior in chemical systems.

CO4: Understanding of catalytic processes, reaction mechanisms, catalytic cycles, catalyst characterization, and the role of catalysts in accelerating chemical reactions and improving reaction selectivity.

CO5: Introduction to molecular dynamics simulations, statistical thermodynamics, molecular interactions, Monte Carlo methods, and their applications to complex chemical systems.

CO6: Ability to effectively communicate scientific concepts, experimental results, and conclusions related to physical chemistry, both orally and in writing, to diverse audiences.

Course Name:(INORGANIC CHEMISTRY–II)

CO1: Students should have a comprehensive understanding of atomic structure, including the organization of electrons within atoms, periodic trends, and the behaviour of different elements in the periodic table.

CO2: Knowledge of the properties, reactions, and applications of key groups of inorganic compounds, including main group elements, transition metals, coordination compounds, and organometallic complexes.

CO3: Understanding of thermodynamic principles applied to inorganic systems, including entropy, enthalpy, Gibbs free energy, and their relationship to equilibrium constants and reaction rates.

CO4: Understanding of coordination compounds, including the structures of metal complexes, ligand field theory, crystal field theory, and the role of coordination chemistry in catalysis, bioinorganic chemistry, and materials science.

CO5: Understanding of the applications of inorganic chemistry in various fields, including materials science, catalysis, environmental chemistry, pharmaceuticals, and industrial processes.

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Course Name:(PHYSICAL CHEMISTRY–II

CO1: Mastery of the principles of thermodynamics, including the laws of thermodynamics, entropy, enthalpy, free energy, and their applications to chemical systems in equilibrium and non-equilibrium states.

CO2: Knowledge of quantum mechanics principles applied to atoms and molecules, including wave functions, quantum numbers, Schrödinger equation, particle-in-a-box model, and the hydrogen atom.

CO3: Knowledge of phase equilibria, phase diagrams, phase transitions, vapor-liquid equilibrium, and the application of thermodynamics to the study of phase behavior in chemical systems.CO4: Understanding of catalytic processes, reaction mechanisms, catalytic cycles, catalyst characterization, and the role of catalysts in accelerating chemical reactions and improving reaction selectivity.

CO5: Introduction to molecular dynamics simulations, statistical thermodynamics, molecular interactions, Monte Carlo methods, and their applications to complex chemical systems.

CO6: Ability to effectively communicate scientific concepts, experimental results, and conclusions related to physical chemistry, both orally and in writing, to diverse audiences.

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Course Name: (ORGANIC CHEMISTRY–II)

CO1: Familiarity with spectroscopic techniques used in the characterization of organic compounds, including infrared (IR), nuclear magnetic resonance (NMR), mass spectrometry (MS), and UV-Vis spectroscopy, and interpretation of spectral data.

CO2: Overview of the principles of polymer chemistry, including polymerization reactions, polymer structure and properties, polymer characterization techniques, and the applications of polymers in materials science and industry.

CO3: Understanding of the concept of aromaticity and the properties of aromatic compounds, including benzene and its derivatives, as well as electrophilic aromatic substitution reactions.

CO4: Proficiency in naming organic compounds according to the rules of systematic nomenclature (IUPAC) and common names, including alkanes, alkenes, alkynes, cyclic compounds, and functional groups.

CO5: Knowledge of conjugated systems, delocalized pi electrons, and molecular orbital theory as applied to the stability and reactivity of conjugated molecules and aromatic compounds.

CO6: Understanding of the applications of organic chemistry in various fields, including pharmaceuticals, agrochemicals, materials science, biochemistry, and environmental chemistry.

Course Name:(INORGANIC CHEMISTRY–III)

CO1: Students should have a comprehensive understanding of atomic structure, including the organization of electrons within atoms, periodic trends, and the behaviour of different elements in the periodic table.

CO2: Knowledge of the properties, reactions, and applications of key groups of inorganic compounds, including main group elements, transition metals, coordination compounds, and organometallic complexes.

CO3: Understanding of thermodynamic principles applied to inorganic systems, including entropy, enthalpy, Gibbs free energy, and their relationship to equilibrium constants and reaction rates.

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CO4: Understanding of coordination compounds, including the structures of metal complexes, ligand field theory, crystal field theory, and the role of coordination chemistry in catalysis, bioinorganic chemistry, and materials science.**CO5:** Understanding of the applications of inorganic chemistry in various fields, including materials science, catalysis, environmental chemistry, pharmaceuticals, and industrial processes.

Course Name: (ORGANIC CHEMISTRY–III

CO1: Familiarity with spectroscopic techniques used in the characterization of organic compounds, including infrared (IR), nuclear magnetic resonance (NMR), mass spectrometry (MS), and UV-Vis spectroscopy, and interpretation of spectral data.

CO2: Overview of the principles of polymer chemistry, including polymerization reactions, polymer structure and properties, polymer characterization techniques, and the applications of polymers in materials science and industry.

CO3: Understanding of the concept of aromaticity and the properties of aromatic compounds, including benzene and its derivatives, as well as electrophilic aromatic substitution reactions.

CO4: Proficiency in naming organic compounds according to the rules of systematic nomenclature (IUPAC) and common names, including alkanes, alkenes, alkynes, cyclic compounds, and functional groups.

CO5: Knowledge of conjugated systems, delocalized pi electrons, and molecular orbital theory as applied to the stability and reactivity of conjugated molecules and aromatic compounds.

CO6: Understanding of the applications of organic chemistry in various fields, including pharmaceuticals, agrochemicals, materials science, biochemistry, and environmental chemistry.

Course Name:(INORGANIC CHEMISTRY–IV)

CO1: Students should have a comprehensive understanding of atomic structure, including the organization of electrons within atoms, periodic trends, and the behaviour of different elements in the periodic table.

CO2: Knowledge of the properties, reactions, and applications of key groups of inorganic compounds, including main group elements, transition metals, coordination compounds, and organometallic complexes.

CO3: Understanding of thermodynamic principles applied to inorganic systems, including entropy, enthalpy, Gibbs free energy, and their relationship to equilibrium constants and reaction rates.

CO4: Understanding of coordination compounds, including the structures of metal complexes, ligand field theory, crystal field theory, and the role of coordination chemistry in catalysis, bioinorganic chemistry, and materials science.

CO5: Understanding of the applications of inorganic chemistry in various fields, including materials science, catalysis, environmental chemistry, pharmaceuticals, and industrial processe

Course Name:(PHYSICAL CHEMISTRY–III)

CO1: Mastery of the principles of thermodynamics, including the laws of thermodynamics, entropy, enthalpy, free energy, and their applications to chemical systems in equilibrium and non-equilibrium states.

CO2: Knowledge of quantum mechanics principles applied to atoms and molecules, including wave functions, quantum numbers, Schrödinger equation, particle-in-a-box model, and the hydrogen atom.

CO3: Knowledge of phase equilibria, phase diagrams, phase transitions, vapor-liquid equilibrium, and the application of thermodynamics to the study of phase behavior in chemical systems.

CO4: Understanding of catalytic processes, reaction mechanisms, catalytic cycles, catalyst characterization, and the role of catalysts in accelerating chemical reactions and improving reaction selectivity.

CO5: Introduction to molecular dynamics simulations, statistical thermodynamics, molecular interactions, Monte Carlo methods, and their applications to complex chemical systems.

CO6: Ability to effectively communicate scientific concepts, experimental results, and conclusions related to physical chemistry, both orally and in writing, to diverse audiences.

Course Name: (ORGANIC CHEMISTRY–IV)

CO1: Familiarity with spectroscopic techniques used in the characterization of organic compounds, including infrared (IR), nuclear magnetic resonance (NMR), mass spectrometry (MS), and UV-Vis spectroscopy, and interpretation of spectral data.

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CO2: Overview of the principles of polymer chemistry, including polymerization reactions, polymer structure and properties, polymer characterization techniques, and the applications of polymers in materials science and industry.

CO3: Understanding of the concept of aromaticity and the properties of aromatic compounds, including benzene and its derivatives, as well as electrophilic aromatic substitution reactions.

CO4: Proficiency in naming organic compounds according to the rules of systematic nomenclature (IUPAC) and common names, including alkanes, alkenes, alkynes, cyclic compounds, and functional groups.

CO5: Knowledge of conjugated systems, delocalized pi electrons, and molecular orbital theory as applied to the stability and reactivity of conjugated molecules and aromatic compounds.

CO6: Understanding of the applications of organic chemistry in various fields, including pharmaceuticals, agrochemicals, materials science, biochemistry, and environmental chemistry.

Course Name:(PHYSICAL CHEMISTRY–IV)

CO1: Mastery of the principles of thermodynamics, including the laws of thermodynamics, entropy, enthalpy, free energy, and their applications to chemical systems in equilibrium and non-equilibrium states.

CO2: Knowledge of quantum mechanics principles applied to atoms and molecules, including wave functions, quantum numbers, Schrödinger equation, particle-in-a-box model, and the hydrogen atom.

CO3: Knowledge of phase equilibria, phase diagrams, phase transitions, vapor-liquid equilibrium, and the application of thermodynamics to the study of phase behavior in chemical systems.

CO4: Understanding of catalytic processes, reaction mechanisms, catalytic cycles, catalyst characterization, and the role of catalysts in accelerating chemical reactions and improving reaction selectivity.

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CO6: Ability to effectively communicate scientific concepts, experimental results, and conclusions related to physical chemistry, both orally and in writing, to diverse audiences.

PRINCIPAL
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Course Name- Gen English (Prose & Grammar) Credit-4, L-6

CO1. This course helps in improvement in the skills of listening, speaking, reading and writing and develops creative writing skills.

CO2. It also enables them to speak about the writers and learn correct grammatical form, appropriate vocabulary and correct word order.

CO3: It enables students to speak about the poets and explain the style of the poem.

CO4: Write letters in the correct format and language.

Course Name- Gen English (Poetry & making Connections)

CO1. The students learn correct appropriate vocabulary and correct word order.

CO2. It develops creative Writing skills.

CO3. It also enables them to speak about the writers.

CO4. Students also familiar with the background of the academic writings.

Course Name Gen English (Poetry & Drama)

CO1: Critically understand and analyse poetry across a wide range of literary age and context.

CO2. It enables students to speak about the poets and explain the style of the poem.

CO3. It helps the students to understand the genre of drama.

CO4. It helps them to understand the different types of play and drama.

Course Name Gen English (Novel and One Act Plays)

CO1. They will be able to participate in role plays and mini-talks.

CO2. Acquire a broad perspective of the novel as a literary genre and the relevant historical, geographical, and cultural identical backgrounds.

CO3. Appreciate the working of various literary devices like irony in fiction.

Punjabi

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਪਹਿਲਾ ਸਮੈਸਟਰ ਪ੍ਰੋਗਰਾਮ ਆਉਟਕਮ

CO.1 ਦੋ ਰੰਗਾ ਪੁਸਤਕ ਵਿੱਚ ਕਹਾਣੀਆਂ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

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CO.2 ਸਸਾਰ ਦਆ ਪ੍ਰਸਧ ਹਸਤਆ ਦ ਵਚ ਵਖ-ਵਖ ਲਖਕ ਦ ਜਾਵਨ ਨ ਜਾਨਣ ਦਾ ਮਕ

CO.3 ਭਾਸ਼ਾ ਵੰਨਗੀਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸਦੇ ਬਾਰੇ ਜਾਣੂ ਕਰਾਉਣਾ

CO.5 ਪੈਰਾਂ ਰਚਨਾ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਨਾ

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਦੂਜਾ ਬੀ.ਸੀ.ਏ /ਬੀ.ਐਸ.ਸੀ ਐਫ.ਡੀ.ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਸ਼ਿਰੋਮਣੀ ਪੰਜਾਬੀ ਕਹਾਣੀ ਭਾਗ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕਹਾਣੀ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.2 ਸ਼੍ਰੋਮਣੀ ਪੰਜਾਬੀ ਕਾਵਿ ਵਿੱਚ ਗੁਰੂਆਂ ਪੀਰਾਂ ਨਾਲ ਸਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.3 ਸ਼ਬਦ ਰਚਨਾ ਦੇ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ

CO.4 ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ

ਬੀ.ਏ ਤੀਜਾ ਸਮੈਸਟਰ ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਨਾਲ ਜੁੜਨ ਦਾ ਮੌਕਾ

CO.2 ਆਧੁਨਿਕ ਇਕਾਂਗੀ ਵਿੱਚ ਵੱਖ ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨ ਦਾ ਮੌਕਾ

CO.3 ਸੰਖੇਪ ਰਚਨਾ ਅਤੇ ਅਸ਼ੁੱਧ ਸ਼ਬਦ ਜੋੜਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖਣ ਦਾ ਅਭਿਆਸ

CO.4 ਮੂਲ ਵਿਆਕਰਨਿਕ ਇਕਾਈਆਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਵਰਗੀਕਰਨ ਪੜਨ ਦਾ ਅਵਸਰ ਪ੍ਰਾਪਤ ਕਰਨਾ

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਚੌਥਾ ਪ੍ਰੋਗਰਾਮ ਆਊਟਕਮ

CO1. "ਮੇਰੀ ਜੀਵਨ ਗਾਥਾ" ਸਵੈ ਜੀਵਨੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

"CO2.ਫ਼ਾਸਲੇ "ਨਾਟਕ ਦੇ ਵਿਸ਼ੇ ਅਤੇ ਕਲਾਤਮਕ ਪੱਖ ਬਾਰੇ ਗਿਆਨ ਹੋਵੇਗਾ

CO3.ਲੇਖ ਰਚਨਾ ਕਿਵੇਂ ਕੀਤੀ ਜਾਂਦੀ ਹੈ, ਸਿੱਖਾਇਆ ਜਾਵੇਗਾ।

CO4ਅਸ਼ੁੱਧ ਸ਼ਬਦਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਨਾ ਦੱਸਿਆ ਜਾਵੇਗਾ

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CO5.ਗੁਰਮੁਖੀ ਲਿਪੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

ਬੀ.ਏ ਭਾਗ ਪੰਜਵਾਂ ਸਮੈਸਟਰ ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਚੋਣਵੀਆਂ ਪੰਜਾਬੀ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ਾ ਵਸਤੂ/ ਸਾਰ /ਅਤੇ ਕਹਾਣੀ ਕਲਾ ਨੂੰ ਜਾਣਣ ਦਾ ਮੌਕਾ

CO.2 ਏਹੁ ਹਮਾਰਾ ਜੀਵਣਾ ਨਾਵਲ ਵਿੱਚ ਵਿਸ਼ਾ ਵਸਤੂ ਅਤੇ ਪਾਤਰ ਚਿਤਰਨ ਕਰਨ ਦਾ ਮੌਕਾ

CO.3 ਪੈਰਾ ਰਚਨਾ ਅਤੇ ਸਰਲ ਅੰਗਰੇਜ਼ੀ ਪੈਰੇ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ ਕਰਨਾ ਸਿੱਖਣਾ

CO.4 ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ ਵਕਾਤਮਕ ਜੁਗਤਾਂ, ਕਾਰਕ ਤੇ ਕਾਰਕੀ ਸਬੰਧ ਜਾਨਣ ਦਾ ਅਫਸਰ ਪ੍ਰਾਪਤ ਹੋਣਾ

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਛੇਵਾਂ ਪ੍ਰੋਗਰਾਮ ਆਊਟਕਮ

CO1. "ਮੱਧਕਾਲੀ ਸਾਹਿਤ "ਪੁਸਤਕ ਵਿੱਚ ਮੱਧਕਾਲੀ ਕਵੀਆ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO2. "ਧਰਤੀਆਂ ਦੇ ਗੀਤ" ਸਫ਼ਰਨਾਮੇ ਵਿੱਚ ਉੱਥੋਂ ਦੇ ਲੋਕਾਂ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ।

CO3. ਸਾਹਿਤ ਦੇ ਰੂਪਾਂ ਦੀ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO4. ਵਿਆਕਰਣ ਦੀਆਂ ਇਕਾਈਆਂ ਬਾਰੇ ਵੇਰਵੇ ਸਹਿਤ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

Basic Punjabi

ਮੁਢੱਲੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਪਹਿਲਾ ਬੀ.ਏ /ਬੀ.ਐਸ.ਸੀ /ਬੀ. ਕਾਮ ਪ੍ਰੋਗਰਾਮ ਆਊਟਕਮ

CO.1 ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਲਿਖਣੀ ਤੇ ਪੜਨੀ ਸਿੱਖੀ

CO.3ਗੁਰਮੁਖੀ ਲਿਪੀ ਅਤੇ ਮਾਤਰਾਵਾਂ ਨਾਲ ਸਬੰਧਿਤ ਲਿਖਣਾ ਦੱਸਣਾ

CO.4 ਗੁਰਮੁਖੀ ਆਰਥੋਗਰਾਫੀ ਦੇ ਰਾਹੀਂ ਸਵਰ ਤੇ ਵਿਅੰਜਨਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ

CO.5 ਪੰਜਾਬੀ ਸ਼ਬਦ ਜੋੜ ਕਰਨੇ ਸਿਖਾਏ

CO.6 ਬਿੰਦੀ, ਟਿੱਪੀ, ਅਧੱਕ ਦੀ ਵਰਤੋਂ ਨਾਲ ਸ਼ਬਦ ਬਣਾਉਣੇ ਸਿੱਖੇ, ਸ਼ੁੱਧ ਸ਼ਬਦ ਜੋੜ ਲਿਖਵਾਏ

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਦੂਜਾ ਬੀ.ਸੀ.ਏ /ਬੀ.ਐਸ.ਸੀ.ਐਫ.ਡੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਪੰਜਾਬੀ ਸ਼ਬਦ ਬਣਤਰ ਵਿੱਚ ਨਵੇਂ ਸ਼ਬਦਾਂ ਦਾ ਨਿਰਮਾਣ ਕਰਨਾ ਦੱਸਣਾ

CO.2 ਸੰਯੁਕਤ ਸ਼ਬਦ, ਦੋਜਾਤੀ ਸਬਦ, ਮਿਸ਼ਰਤ ਸ਼ਬਦਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਣਾ

CO.3 ਇਕ ਵਚਨ ਬਹੁ ਵਚਨ ਲਿੰਗ ਵਚਨ, ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ ਬਣਾਉਣੇ ਸਿੱਖੇ

CO.4 ਰੋਜਾਨਾ ਵਰਤੀ ਜਾਣ ਵਾਲੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ ਸਿੱਖੀ

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਤੀਜਾ ਸਮੈਸਟਰ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ ਕਰਨ ਦੀ ਕਲਾ ਸਿੱਖਣਾ, ਪੈਰਾ ਰਚਨਾ ਲਿਖਣਾ

CO.2 ਵੱਖ-ਵੱਖ ਵਿਸਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕਵਿਤਾਵਾਂ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.3 ਲੇਖਕਾਂ ਦੀਆਂ ਕਹਾਣੀਆਂ ਪੜ੍ਹ ਦਾ ਅਫਸਰ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4 ਵੱਖ ਵੱਖ ਵਿਸ਼ਿਆਂ ਤੇ ਨਿਬੰਧ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ ਪ੍ਰਾਪਤ ਹੋਣਾ ਜਿਵੇਂ ਕਿ ਆਓ ਗੱਲਾਂ ਕਰੀਏ, ਮਨੁੱਖ ਕੁਦਰਤ ਦੀ ਨੇਕ ਔਲਾਦ।

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਚੌਥਾ ਸਮੈਸਟਰ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਲੇਖਕਾਂ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨੀ ਸਿੱਖਣੀ

CO.2 ਵਿਸ਼ਾ ਵਸਤੂ ਅਤੇ ਸਾਰ ਲਿਖਣ ਦਾ ਮੌਕਾ

CO.3 ਕਵੀਆਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਅਤੇ ਰਚਨਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4 ਲੇਖ ਰਚਨਾ ਅਤੇ ਅਸ਼ੁੱਧ ਸ਼ਬਦਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖਣ ਬਾਰੇ ਸਿੱਖਣਾ

ਮੁਢੱਲੀ ਪੰਜਾਬੀ ਭਾਗ ਪੰਜਵਾਂ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਲੋਕ ਕਾਵਿ ਪੜ੍ਹ ਕੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦਾ ਗਿਆਨ ਹੋਵੇਗਾ

CO.2 ਘੋੜੀਆਂ, ਸੁਹਾਗ, ਟੱਪੇ ਪੜ੍ਹਨ ਉਪਰੰਤ ਵਿਸ਼ਾਲ ਸਭਿਆਚਾਰ ਨਾਲ ਅਪਣਤ ਪੈਦਾ ਹੋਵੇਗੀ

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CO.3 ਪੰਜਾਬੀ ਦੀਆਂ ਲੋਕ ਖੇਡਾਂ ਪ੍ਰਤੀ ਬੱਚਿਆਂ ਦੀ ਰੁਚੀ ਤੋਂ ਜਾਣੂ ਹੋਣਾ

CO.4 ਲੋਕ ਖਾਣਿਆਂ ਬਾਰੇ ਵਿਸਥਾਰ ਪੂਰਵਕ ਜਾਗਰੂਕ ਹੋਣਾ

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਛੇਵਾਂ

CO1.ਪੰਜਾਬ ਦੇ ਮੇਲਿਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO2 ਪੰਜਾਬ ਦੇ ਤਿਉਹਾਰਾਂ ਨਾਲ ਜਾਣ ਪਛਾਣ ਹੋਵੇਗੀ

CO3ਪੰਜਾਬ ਦੇ ਲੋਕ ਕਾਵਿ ਰੂਪ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO4.ਪੰਜਾਬ ਦੇ ਪਹਿਰਾਵੇ ਅਤੇ ਖਾਣਿਆਂ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕੀਤਾ ਜਾਵੇਗਾ।

Course Name: Algebra (L-4, T-0, P-0)

CO1: The course aims to provide basic knowledge of vectors and their property

CO2: Students understand the linear dependence and independence among vectors.

CO3: Students learn to find solution by linear equation by using matrices.

CO4: Students understand the relation between and coefficient of equation.

Course Name: Calculus (L-3, T-0, P-0)

CO1: The course provides basic ideas of the functions.

CO2: The students understand the concepts of limits and continuity.

CO3: The course provide knowledge regarding successive differentiation.

CO4: The students understand the concept of maxima and minima.

Course Name: Calculus and differential equations (L-4, T-0, P-0)

CO1: The course provides basic knowledge of degree and order by differential equation.

CO2: Students learn to develop relationship among different variables using differential equations.

CO3: Students understand the importance of differential equation in various fields.

CO4: Students learn the difference between homogeneous and non- homogeneous equations.

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Course Name: Calculus 2 (L-3, T-0, P-0)

CO1: It helps to understand modern mathematics education.

CO2: This course in calculus is gateway to others more advances courses in mathematics.

CO3: It helps students to learn about integration.

CO4: It helps students to learn, to expand integration od third order.

Course name: Analysis

CO1: This course provides the study of real numbers and their properties.

CO2: Students understand the concept of sets limit point, convergence of sequence and series.

CO3: Students will be able to understand behavior of real numbers.

CO4: Students understand their applications of calculus in different fields.

Course Name: Analytical Geometry

CO1: The course includes the study of conic sections.

CO2: Student understand sphere and cylindrical surface.

CO3: Students will be able to sketch the graphs of different conic sections.

CO4: Students can understand the forms of the surface recognition.

Course name: static and vector calculus

CO1: This course includes the study of differentiation of vectors.

CO2: Students understand the concept of gradient, divergence, curl and vector integration.

CO3: It helps students to represent vectors analytically and geometrically.

CO4: It helps students to compute scalar and vector product.

Course Name: Solid geometry

CO1: It helps to understand the concept of sphere, cylinder. Cone and planes.

CO2: It helps to understand geometric terminology for angles, triangles.

CO3: It helps in developing the ability among students to trace the curve.

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CO4. It helps students in developing the ability to differentiate between tangents and normal to the curve

Course Name: Dynamics

CO1: This course helps the students to understand newtons law, SHM, work, power, energy.

CO2: It helps students to develop and understand the principle of dynamics.

CO3: It helps students to gain knowledge of external forces on a rigid body.

CO4: Students can relate these topics to the physics.

Course Name: Linear algebra

CO1: It helps students to learn the basis of ring.

CO2: Students develop the ability to understand vector space, linear span, basis.

CO3: It helps students to gain knowledge of linear transformation.

CO4: It helps students to gain knowledge of matrix relation.

Course Name: Numerical Analysis

CO1: This course helps the student to apply numerical methods.

CO2: It helps students to apply numerical methods in solving problems.

CO3: It helps students to find and approximate solution.

CO4: It helps students to understand mean, medium and mode

Course Name: PAPER–A: MECHANICS (credit:3)

CO1: To understand Newton's laws of motion, force, mass, acceleration, and the relationship between force, mass, and acceleration.

CO2: Gain Knowledge of the causes of motion, including the concepts of force, momentum, impulse, and the relationship between force, mass, and acceleration as described by Newton's second law.

CO3: To Understand simple harmonic motion, oscillatory motion, pendulum motion, and the behavior of systems governed by Hooke's law.

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CO4: Development of analytical and problem-solving skills through the application of mathematical techniques, including vector algebra, calculus, and differential equations, to solve mechanics problems.

CO5: Ability to design and conduct experiments to investigate mechanical phenomena, collect and analyses data, and draw conclusions based on experimental results.

CO6: Ability to effectively communicate scientific concepts, experimental procedures, results, and conclusions related to mechanics, both orally and in writing, to diverse audienees.

Course Name: PAPER–B: ELECTRICITY AND MAGNETISM (credit:2)

CO1: Understanding of Mastery of the fundamental concepts of electric charge, Coulomb's law, electric fields, and the principle of superposition in the context of electrostatics.

CO2: Knowledge of electric potential, voltage, and their relationship to electric fields, equipotential surfaces, and the calculation of electric potential due to various charge distributions.

CO3: Understanding of Faraday's law of electromagnetic induction, Lenz's law, induced electromotive force (emf), and the generation of electric currents by changing magnetic fields.

CO4: Proficiency in analysing AC circuits, including impedance, phase relationships between voltage and current, power in AC circuits, resonance, and the behaviour of RLC circuits.

CO5: Understanding of electromagnetic waves, their properties, including wavelength, frequency, speed, and the relationship between electric and magnetic fields in propagating electromagnetic waves.

Course Name: PAPER–A: RELATIVITY AND ELECTROMAGNETISM (credit:3)

CO1: Understanding the principles of special relativity, including the concept of spacetime, Lorentz transformations, time dilation, length contraction, and relativistic momentum.

CO2: Ability to analyses electromagnetism within the framework of special relativity, including the relativistic transformation of electric and magnetic fields, and the derivation of the electromagnetic field tensor.

CO3: Proficiency in relativistic electrodynamics, including the Lorentz force law in the presence of electromagnetic fields, the electromagnetic stress-energy tensor, and the equations of motion for charged particles in electromagnetic fields.

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CO4: Knowledge of cosmological applications of relativity and electromagnetism, including the Big Bang theory, the expansion of the universe, cosmic microwave background radiation, and the large-scale structure of the cosmos.

CO5: Introduction to quantum field theory and the electroweak interaction, which unifies electromagnetism with the weak nuclear force, and their implications for the Standard Model of particle physics.

Course Name: PAPER–B: VIBRATION AND WAVES (credit:2)

CO1: Understanding of the principles of oscillatory motion, including harmonic motion, simple harmonic oscillators, damped oscillators, and forced oscillations.

CO2: Knowledge of wave propagation in various media, including mechanical waves (such as sound waves in solids, liquids, and gases), electromagnetic waves, and wave propagation in different boundary conditions.

CO3: Understanding of the superposition principle and its application to the interference and diffraction of waves, including standing waves, beats, and the formation of interference patterns.

CO4: Gain Knowledge of resonance phenomena, including the conditions for resonance, resonance frequency, quality factor (Q-factor), and the applications of resonance in various physical systems.

CO5: Introduction to wave optics, including the principles of geometric optics, wavefronts, Huygens' principle, diffraction, polarization, and the behavior of light waves in optical systems.

Course Name: PAPER-A: STATISTICAL PHYSICS & THERMODYNAMICS (credit:3)

CO1: Understanding of the fundamental principles of classical thermodynamics, including the laws of thermodynamics, entropy, enthalpy, heat capacity, and the relationships between thermodynamic variables.

CO2: Gain Knowledge of the foundations of statistical mechanics, including the Boltzmann distribution, partition function, canonical ensemble, and the derivation of thermodynamic properties from statistical principles.

CO3: Understanding of thermodynamic potentials, including the Helmholtz free energy, Gibbs free energy, internal energy, and their relationships to thermodynamic variables and equilibrium conditions.

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CO4: Proficiency in understanding fluctuations in thermodynamic systems, the fluctuation-dissipation theorem, and the connection between fluctuations and response functions.

CO5: Understanding of the thermodynamic properties of materials, including heat capacity, thermal expansion, compressibility, and their dependence on temperature, pressure, and composition.

Course Name: PAPER–B: OPTICS AND LASERS (credit:2)

CO1: Understanding of the principles of geometrical optics, including ray tracing, reflection, refraction, Snell's law, image formation by lenses and mirrors, and the properties of optical systems.

CO2: Proficiency in the principles of wave optics, including diffraction, interference, polarization, coherence, and the behavior of light waves in various optical systems.

CO3: Understanding of laser fundamentals, including stimulated emission, population inversion, optical resonators, gain medium properties, and laser cavity design.

CO4: Understanding of optical spectroscopy techniques, including absorption spectroscopy, emission spectroscopy, Raman spectroscopy, and their applications in chemical analysis, materials science, and biophysics.

CO5: Knowledge of optical imaging systems, including lenses, microscopes, telescopes, cameras, and their design principles, aberrations, resolution limits, and applications in microscopy, astronomy, and remote sensing.

Course Name: PAPER- A: QUANTUM MECHANICS (credit:3)

CO1: Gain knowledge of the fundamental principles of quantum mechanics, including wave-particle duality, the wave function, probability interpretation, and the uncertainty principle.

CO2: Understanding of the time evolution of quantum systems, including the Schrödinger equation, time-dependent and time-independent solutions, and the concept of unitary evolution in quantum mechanics.

CO3: Knowledge of angular momentum in quantum mechanics, including orbital angular momentum, spin angular momentum, and their quantization, as well as the addition of angular momenta.

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CO4: Understanding of approximation methods in quantum mechanics, including perturbation theory, variational methods, and the WKB approximation, and their applications to solve complex quantum systems.

CO5: Proficiency in understanding the role of measurement in quantum mechanics, including the collapse of the wave function, measurement postulates, and the interpretation of quantum mechanics.

Course Name: PAPER - B: ATOMIC AND MOLECULAR SPECTRA(credit:2)

CO1: Understanding of the principles of atomic structure, including electron configurations, energy levels, angular momentum, and the quantization of atomic energy levels.

CO2: Proficiency in the quantum mechanical description of atoms, including the Schrödinger equation for hydrogen-like atoms, atomic orbitals, and the solution of the hydrogen atom.

CO3: Understanding of spectroscopic notation and terms used to describe atomic energy levels, such as term symbols, angular momentum quantum numbers, and selection rules for transitions.

CO4: Understanding of fine and hyperfine structure in atomic spectra, including relativistic corrections, electron spin-orbit coupling, and interactions between nuclear and electronic spins.

CO5: Knowledge of atomic transition probabilities, including Einstein coefficients, spontaneous emission, stimulated emission, and the rate equations governing atomic transitions.

Course Name: PAPER- A : CONDENSED MATTER PHYSICS(credit:3)

CO1: Proficiency in crystallography and the characterization of crystal structures, including Bravais lattices, crystal systems, point groups, space groups, and the symmetry properties of crystals.

CO2: Knowledge of crystal diffraction techniques, including X-ray diffraction, electron diffraction, and neutron diffraction, and the interpretation of diffraction patterns in reciprocal space.

CO3: Understanding of lattice dynamics and the quantization of vibrational modes in crystals, including the concept of phonons, phonon dispersion relations, and the behavior of phonons in different materials.

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CO4: Proficiency in semiconductor physics, including carrier statistics, carrier transport, p-n junctions, semiconductor devices (diodes, transistors), and the operation of semiconductor devices in electronic circuits.

CO5: Knowledge of magnetism and magnetic materials, including magnetic ordering, magnetic domains, ferromagnetism, antiferromagnetism, ferrimagnetism, and the behavior of magnetic materials in external magnetic fields.

Course Name: PAPER - B : ELECTRONICS (credit:2)

CO1: Proficiency in the characteristics, operation, and applications of semiconductor diodes, including rectification, clipping, clamping, and voltage regulation circuits.

CO2: Knowledge of bipolar junction transistors (BJTs) and field-effect transistors (FETs), including their operating principles, small-signal and large-signal models, biasing techniques, and amplifier configurations.

CO3: Familiarity with operational amplifiers, including ideal and practical op-amp characteristics, inverting and non-inverting amplifier configurations, summing amplifiers, integrators, differentiators, and applications in analog signal processing.

CO4: Knowledge of combinational logic circuits (adders, subtractors, multiplexers, demultiplexers, encoders, decoders) and sequential logic circuits (flip-flops, registers, counters), and their applications in digital systems.

Course Name: PAPER–A: RADIATION AND PARTICLE PHYSICS (credit:3)

CO1: Proficiency in understanding the fundamental forces of nature, including electromagnetic, weak, strong, and gravitational forces, and their description in the context of particle interactions.

CO2: Knowledge of particle accelerators and detectors used in experimental particle physics, including linear accelerators, circular accelerators (synchrotrons, cyclotrons), and various types of particle detectors (ionization detectors, calorimeters, tracking detectors).

CO3: Understanding of scattering experiments in particle physics, including elastic and inelastic scattering, deep inelastic scattering, electron-proton scattering, and the extraction of structure functions and Parton distributions from scattering data.

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CO4: Understanding of neutrino properties and oscillations, including neutrino masses, neutrino mixing, neutrino flavor oscillations, and experimental techniques for studying neutrino interactions.

CO5: Familiarity with applications of particle physics technologies and techniques in other fields, including medical imaging (positron emission tomography, proton therapy), nuclear engineering, and materials science.

Course Name: PAPER–B: NUCLEAR PHYSICS (credit:2)

CO1: Proficiency in understanding nuclear reactions, including nuclear decay modes (alpha decay, beta decay, gamma decay), nuclear fission, nuclear fusion, and the principles of reaction kinematics and conservation laws.

CO2: Knowledge of nuclear decay processes, including radioactive decay rates, decay constants, half-life, activity, decay chains, and the applications of radioactive isotopes in dating techniques and medical imaging.

CO3: Understanding of nuclear reactions kinematics, including energy conservation, momentum conservation, center-of-mass frame, and the kinematics of scattering, capture, and breakup reactions.

CO4: Students gain Knowledge of radioactive decay processes used in radioactive dating techniques, including radiocarbon dating, potassium-argon dating, uranium-lead dating, and their applications in geology and archaeology.

Course Name:(INORGANIC CHEMISTRY–I)

CO1: Students should have a comprehensive understanding of atomic structure, including the organization of electrons within atoms, periodic trends, and the behaviour of different elements in the periodic table.

CO2: Knowledge of the properties, reactions, and applications of key groups of inorganic compounds, including main group elements, transition metals, coordination compounds, and organometallic complexes.

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CO3: Understanding of thermodynamic principles applied to inorganic systems, including entropy, enthalpy, Gibbs free energy, and their relationship to equilibrium constants and reaction rates.

CO4: Understanding of coordination compounds, including the structures of metal complexes, ligand field theory, crystal field theory, and the role of coordination chemistry in catalysis, bioinorganic chemistry, and materials science.

CO5: Understanding of the applications of inorganic chemistry in various fields, including materials science, catalysis, environmental chemistry, pharmaceuticals, and industrial processes.

Course Name: (ORGANIC CHEMISTRY–I)

CO1: Familiarity with spectroscopic techniques used in the characterization of organic compounds, including infrared (IR), nuclear magnetic resonance (NMR), mass spectrometry (MS), and UV-Vis spectroscopy, and interpretation of spectral data.

CO2: Overview of the principles of polymer chemistry, including polymerization reactions, polymer structure and properties, polymer characterization techniques, and the applications of polymers in materials science and industry.

CO3: Understanding of the concept of aromaticity and the properties of aromatic compounds, including benzene and its derivatives, as well as electrophilic aromatic substitution reactions.

CO4: Proficiency in naming organic compounds according to the rules of systematic nomenclature (IUPAC) and common names, including alkanes, alkenes, alkynes, cyclic compounds, and functional groups.

CO5: Knowledge of conjugated systems, delocalized pi electrons, and molecular orbital theory as applied to the stability and reactivity of conjugated molecules and aromatic compounds.

CO6: Understanding of the applications of organic chemistry in various fields, including pharmaceuticals, agrochemicals, materials science, biochemistry, and environmental chemistry.

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Course Name:(PHYSICAL CHEMISTRY–I)

CO1: Mastery of the principles of thermodynamics, including the laws of thermodynamics, entropy, enthalpy, free energy, and their applications to chemical systems in equilibrium and non-equilibrium states.

CO2: Knowledge of quantum mechanics principles applied to atoms and molecules, including wave functions, quantum numbers, Schrödinger equation, particle-in-a-box model, and the hydrogen atom.

CO3: Knowledge of phase equilibria, phase diagrams, phase transitions, vapor-liquid equilibrium, and the application of thermodynamics to the study of phase behavior in chemical systems.

CO4: Understanding of catalytic processes, reaction mechanisms, catalytic cycles, catalyst characterization, and the role of catalysts in accelerating chemical reactions and improving reaction selectivity.

CO5: Introduction to molecular dynamics simulations, statistical thermodynamics, molecular interactions, Monte Carlo methods, and their applications to complex chemical systems.

CO6: Ability to effectively communicate scientific concepts, experimental results, and conclusions related to physical chemistry, both orally and in writing, to diverse audiences.

Course Name:(INORGANIC CHEMISTRY–II)

CO1: Students should have a comprehensive understanding of atomic structure, including the organization of electrons within atoms, periodic trends, and the behaviour of different elements in the periodic table.

CO2: Knowledge of the properties, reactions, and applications of key groups of inorganic compounds, including main group elements, transition metals, coordination compounds, and organometallic complexes.

CO3: Understanding of thermodynamic principles applied to inorganic systems, including entropy, enthalpy, Gibbs free energy, and their relationship to equilibrium constants and reaction rates.

CO4: Understanding of coordination compounds, including the structures of metal complexes, ligand field theory, crystal field theory, and the role of coordination chemistry in catalysis, bioinorganic chemistry, and materials science.

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CO5: Understanding of the applications of inorganic chemistry in various fields, including materials science, catalysis, environmental chemistry, pharmaceuticals, and industrial processes.

Course Name:(PHYSICAL CHEMISTRY–II)

CO1: Mastery of the principles of thermodynamics, including the laws of thermodynamics, entropy, enthalpy, free energy, and their applications to chemical systems in equilibrium and non-equilibrium states.

CO2: Knowledge of quantum mechanics principles applied to atoms and molecules, including wave functions, quantum numbers, Schrödinger equation, particle-in-a-box model, and the hydrogen atom.

CO3: Knowledge of phase equilibria, phase diagrams, phase transitions, vapor-liquid equilibrium, and the application of thermodynamics to the study of phase behavior in chemical systems.

CO4: Understanding of catalytic processes, reaction mechanisms, catalytic cycles, catalyst characterization, and the role of catalysts in accelerating chemical reactions and improving reaction selectivity.

CO5: Introduction to molecular dynamics simulations, statistical thermodynamics, molecular interactions, Monte Carlo methods, and their applications to complex chemical systems.

CO6: Ability to effectively communicate scientific concepts, experimental results, and conclusions related to physical chemistry, both orally and in writing, to diverse audiences.

Course Name: (ORGANIC CHEMISTRY–II)

CO1: Familiarity with spectroscopic techniques used in the characterization of organic compounds, including infrared (IR), nuclear magnetic resonance (NMR), mass spectrometry (MS), and UV-Vis spectroscopy, and interpretation of spectral data.

CO2: Overview of the principles of polymer chemistry, including polymerization reactions, polymer structure and properties, polymer characterization techniques, and the applications of polymers in materials science and industry.

CO3: Understanding of the concept of aromaticity and the properties of aromatic compounds, including benzene and its derivatives, as well as electrophilic aromatic substitution reactions.

CO4: Proficiency in naming organic compounds according to the rules of systematic nomenclature (IUPAC) and common names, including alkanes, alkenes, alkynes, cyclic compounds, and functional groups.

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CO5: Knowledge of conjugated systems, delocalized pi electrons, and molecular orbital theory as applied to the stability and reactivity of conjugated molecules and aromatic compounds.

CO6: Understanding of the applications of organic chemistry in various fields, including pharmaceuticals, agrochemicals, materials science, biochemistry, and environmental chemistry.

Course Name:(INORGANIC CHEMISTRY–III

CO1: Students should have a comprehensive understanding of atomic structure, including the organization of electrons within atoms, periodic trends, and the behaviour of different elements in the periodic table.

CO2: Knowledge of the properties, reactions, and applications of key groups of inorganic compounds, including main group elements, transition metals, coordination compounds, and organometallic complexes.

CO3: Understanding of thermodynamic principles applied to inorganic systems, including entropy, enthalpy, Gibbs free energy, and their relationship to equilibrium constants and reaction rates.

CO4: Understanding of coordination compounds, including the structures of metal complexes, ligand field theory, crystal field theory, and the role of coordination chemistry in catalysis, bioinorganic chemistry, and materials science.

CO5: Understanding of the applications of inorganic chemistry in various fields, including materials science, catalysis, environmental chemistry, pharmaceuticals, and industrial processes.

Course Name: (ORGANIC CHEMISTRY–III)

CO1: Familiarity with spectroscopic techniques used in the characterization of organic compounds, including infrared (IR), nuclear magnetic resonance (NMR), mass spectrometry (MS), and UV-Vis spectroscopy, and interpretation of spectral data.

CO2: Overview of the principles of polymer chemistry, including polymerization reactions, polymer structure and properties, polymer characterization techniques, and the applications of polymers in materials science and industry.

CO3: Understanding of the concept of aromaticity and the properties of aromatic compounds, including benzene and its derivatives, as well as electrophilic aromatic substitution reactions.

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CO5: Knowledge of conjugated systems, delocalized pi electrons, and molecular orbital theory as applied to the stability and reactivity of conjugated molecules and aromatic compounds.

CO6: Understanding of the applications of organic chemistry in various fields, including pharmaceuticals, agrochemicals, materials science, biochemistry, and environmental chemistry.

Course Name:(PHYSICAL CHEMISTRY–III)

CO1: Mastery of the principles of thermodynamics, including the laws of thermodynamics, entropy, enthalpy, free energy, and their applications to chemical systems in equilibrium and non-equilibrium states.

CO2: Knowledge of quantum mechanics principles applied to atoms and molecules, including wave functions, quantum numbers, Schrödinger equation, particle-in-a-box model, and the hydrogen atom.

CO3: Knowledge of phase equilibria, phase diagrams, phase transitions, vapor-liquid equilibrium, and the application of thermodynamics to the study of phase behavior in chemical systems.

CO4: Understanding of catalytic processes, reaction mechanisms, catalytic cycles, catalyst characterization, and the role of catalysts in accelerating chemical reactions and improving reaction selectivity.

CO5: Introduction to molecular dynamics simulations, statistical thermodynamics, molecular interactions, Monte Carlo methods, and their applications to complex chemical systems.

CO6: Ability to effectively communicate scientific concepts, experimental results, and conclusions related to physical chemistry, both orally and in writing, to diverse audiences.

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Course Name:(INORGANIC CHEMISTRY–IV)

CO1: Familiarity with spectroscopic techniques used in the characterization of organic compounds, including infrared (IR), nuclear magnetic resonance (NMR), mass spectrometry (MS), and UV-Vis spectroscopy, and interpretation of spectral data.

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CO2: Overview of the principles of polymer chemistry, including polymerization reactions, polymer structure and properties, polymer characterization techniques, and the applications of polymers in materials science and industry.

CO3: Understanding of the concept of aromaticity and the properties of aromatic compounds, including benzene and its derivatives, as well as electrophilic aromatic substitution reactions.

CO4: Proficiency in naming organic compounds according to the rules of systematic nomenclature (IUPAC) and common names, including alkanes, alkenes, alkynes, cyclic compounds, and functional groups.

CO5: Knowledge of conjugated systems, delocalized pi electrons, and molecular orbital theory as applied to the stability and reactivity of conjugated molecules and aromatic compounds.

CO6: Understanding of the applications of organic chemistry in various fields, including pharmaceuticals, agrochemicals, materials science, biochemistry, and environmental chemistry

Course Name:(PHYSICAL CHEMISTRY-IV)

CO1: Mastery of the principles of thermodynamics, including the laws of thermodynamics, entropy, enthalpy, free energy, and their applications to chemical systems in equilibrium and non-equilibrium states.

CO2: Knowledge of quantum mechanics principles applied to atoms and molecules, including wave functions, quantum numbers, Schrödinger equation, particle-in-a-box model, and the hydrogen atom.

CO3: Knowledge of phase equilibria, phase diagrams, phase transitions, vapor-liquid equilibrium, and the application of thermodynamics to the study of phase behavior in chemical systems.

CO4: Understanding of catalytic processes, reaction mechanisms, catalytic cycles, catalyst characterization, and the role of catalysts in accelerating chemical reactions and improving reaction selectivity.

CO5: Introduction to molecular dynamics simulations, statistical thermodynamics, molecular interactions, Monte Carlo methods, and their applications to complex chemical systems.

CO6: Ability to effectively communicate scientific concepts, experimental results, and conclusions related to physical chemistry, both orally and in writing, to diverse audiences.

Course Name- Gen English (Prose & Grammar) Credit-4, L-6

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CO1. This course helps in improvement in the skills of listening, speaking, reading and writing and develops creative writing skills.

CO2. It also enables them to speak about the writers and learn correct grammatical form, appropriate vocabulary and correct word order.

CO3: It enables students to speak about the poets and explain the style of the poem.

CO4: Write letters in the correct format and language.

Course Name- Gen English (Poetry & making Connections)

CO1. The students learn correct appropriate vocabulary and correct word order.

CO2. It develops creative Writing skills.

CO3. It also enables them to speak about the writers.

CO4. Students also familiar with the background of the academic writings.

Course Name Gen English (Poetry & Drama)

CO1: Critically understand and analyse poetry across a wide range of literary age and context.

CO2. It enables students to speak about the poets and explain the style of the poem.

CO3. It helps the students to understand the genre of drama.

CO4. It helps them to understand the different types of play and drama.

Course Name Gen English (Novel and One Act Plays)

CO1. They will be able to participate in role plays and mini-talks.

CO2. Acquire a broad perspective of the novel as a literary genre and the relevant historical, geographical, and cultural identical backgrounds.

CO3. Appreciate the working of various literary devices like irony in fiction.

Course name Elective English (Poetry & Drama)

CO1. It improves English Pronunciation among students.

CO2. It also enables them to speak about the writers, explain the background of the Drama.

CO3. Provide students with an overview of how modernity was introduced in the twentieth century through drama.

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CO4. Examine Ibsen's A Doll's House as it focuses on issues related to women in patriarchal institutions such as marriage

Course name - Elective English (Poetry & New Directions)

CO1. Help students explore poetry.

CO2. Show a new interweaving of the sacred and the secular subjects of poetry17th C.

CO3. Enables them to recognize new words and texts.

CO4. Learn about the new trends in English writing

Course Name Elective English (Modern prose and New Directions)

CO1. Students will be able to express them in personal tone, collecting main idea and writing briefly. CO2. It also improves the skills of organizing the subject matter in relevant order while listening, speaking and writing.

CO3. Students will develop the ability to interpret and critically evaluate the meaning, subtext, and cultural context of the texts they read.

CO4. They will engage in discussions and written reflections to express their interpretations.

Course Name- Elective English (Background of English Literature, Drama & Fiction)

CO1. It enables to speak about the writers, explain the background of the story and to know the role of the characters.

CO2. Students will reflect on their personal growth as readers and thinkers throughout the course.

CO3. They will consider how their understanding of literature has evolved and how it connects to their own experiences.

Course name- English Honors (Prose)

CO1. Understand the range, significance, and scope of English Literature.

CO2. Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.

CO3. To enable them to write and appreciate different types of prose.

Course Name English Honors (Poetry)

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CO1. To introduce the students to the basic elements of poetry- to enrich the students through various perspectives readings in poetry.

CO2. Develop an understanding of English poetry from the 19th and 20th centuries.

CO3. critically understand and analyses poetry across a wide range of literary age and context.

Course Name- English Honors (Drama)

CO1. Close reading of specific texts from Elizabethan drama and anti-sentimental comedy.

CO2. It also enables them to speak about the writers, explain the background of the Drama.

CO3. Understand antiquated vocabulary and structures.

Course Name- English Honors (Novel)

CO1. Familiarize with fiction and non-fiction from Jacobean period to the 20th century.

CO2. Enablement of the students to understand distinctive features of novels and shorter fiction.

CO3. The students will be able to respond appropriately in discussion, state their views clearly.

CO4. Critical interpretation of meanings and references of literary texts.

Course Name- Business Communication

CO1. This course allows students to develop knowledge, skills and judgement around human communication.

CO2. To facilitate their ability to work collaboratively with others.

CO3. Learner will be conversant with business or official communication terms and writing skills.

CO4. It will enable them to enhance their verbal communication using modern technology

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Department of fashion designing

Programme: Bachelor of fashion Designing

Fashion designing program typically aim to educate students on various aspects of the fashion industry and prepare them for careers within the field here are some Common outcomes of fashion designing programs

PO1. Designs skills: students will develop a strong foundation in design principles including COlour, theory, pattern making, garment Construction and textile selection they will learn how to create sketches technical drawings and prototype of their designs.

PO2. Creativity: programs faster students' creativity and help them develop their own unique design aesthetic they are encouraged to think outside the box and experiment with new ideas and techniques.

PO3. Trend awareness: students are taught how to stay current with fashion trends and understand the historical and cultural influences on fashion. they learn how to research and predict upcoming trends in the industry.

PO4. Technical proficiency: fashion designing programs often include Courses on Computer Design CAD software which is essential for creating digital design and technical drawings. students also learn about various production techniques and processes.

PO5. Market research: students are trained to Conduct market research and analyses Consumer behave you're to understand the needs and preferences of their target audience this helps them create design that are both aesthetically please sing and Commercially technique

PO6. Business skills: many programs include Courses on fashion merchandising marketing and Retail Management to prepare student for the business side of the industry they learn about pricing strategies brand management and sales techniques

PO7. Communication skills: fashion designers need to effectively Communicate their ideas to client's manufacturers and team members programs often include Courses on visual Communication presentation skills and etiquette.

PO8. Collaboration: students learn how to Collaborate with other designers, stylish, photographers and models to bring their designs they gain experience working in team and understanding the importance of effective Collaboration in the fashion industry

PO9. Ethical and sustainable practices: with increasing Awareness of environmental and social issues many programs new focus on teaching students about ethical and sustainable practices in

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fashion design this includes using Eco friendly materials promoting for labour practices and minimizing waste in the production process

PO10. Internship Opportunities: many fashion designing programs offer internship of Opportunities with established fashion houses designs studios or retail Companies this hand on experience allays student to apply their skills in a real word setting and build valuable Connections in the industry

Program Specific Outcomes

PSO1 Students should demonstrate advance proficiency in various design techniques including sketching pattern making, sewing.

PSO2: students understand technical skills including the ability to use designs software and able to effectively Communicate their design Concepts verbally visually and in writing to clients, Colleague's and stakeholders.

PSO3: Students have a well curate Portfolio show casting their design work demonstrating their skills, creativity and grow throughout their education.

Course Name: fashion design and illustration

CO1. Proficiency in drawing techniques student should develop skills in sketching and illustrating fashion designs including figures garments and accessories.

CO2. To understanding of design principle should learn about Colour theory Composition, balance and propoftion.

CO3. Knowledge of textiles materials understanding different fabrics their properties and how they drape.

CO4. To understanding of the fashion industry is include knowledge of history of fashion current market Trends and business side of the industry.

Course Name: Colour Concept and Colouration

CO1. To understanding the basics of Colour theory including a Colour wheel Colour harmony Contrast and psychological effect of Colour.

CO2. Mixing and blending techniques learning how to make pigments and dyes to these specific Colour and Shades as well as understanding with each other.

CO3. Application of Colour in various mediums applying Colour Concept to different medium such as texture painting, digital design and fashion.

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CO.1 ਲੋਕ ਕਾਵਿ ਪੜ੍ਹ ਕੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦਾ ਗਿਆਨ ਹੋਵੇਗਾ

CO.2 ਘੋੜੀਆਂ, ਸੁਹਾਗ, ਟੱਪੇ ਪੜ੍ਹਨ ਉਪਰੰਤ ਵਿਸ਼ਾਲ ਸਭਿਆਚਾਰ ਨਾਲ ਅਪਣਤ ਪੈਦਾ ਹੋਵੇਗੀ

CO.3 ਪੰਜਾਬੀ ਦੀਆਂ ਲੋਕ ਖੇਡਾਂ ਪ੍ਰਤੀ ਬੱਚਿਆਂ ਦੀ ਰੁਚੀ ਤੋਂ ਜਾਣੂ ਹੋਣਾ

CO.4 ਲੋਕ ਖਾਣਿਆਂ ਬਾਰੇ ਵਿਸਥਾਰ ਪੂਰਵਕ ਜਾਗਰੂਕ ਹੋਣਾ

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਛੇਵਾਂ

CO1.ਪੰਜਾਬ ਦੇ ਮੇਲਿਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO2.ਪੰਜਾਬ ਦੇ ਤਿਉਹਾਰਾਂ ਨਾਲ ਜਾਣ ਪਛਾਣ ਹੋਵੇਗੀ

CO3ਪੰਜਾਬ ਦੇ ਲੋਕ ਕਾਵਿ ਰੂਪ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO4.ਪੰਜਾਬ ਦੇ ਪਹਿਰਾਵੇ ਅਤੇ ਖਾਣਿਆਂ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕੀਤਾ ਜਾਵੇਗਾ।

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Course Name: pattern making and garment Construction

CO1. To understanding of pattern, drafting student learn how to create patterns from scratch using basic body measurement.

CO2. To understand pattern making technique such as flat pattern drafting, draping and Computer aided design.

CO3. To create different styles, shapes and silhouettes including Dart manipulation pattern grading

Course Name: Needle craft

CO1. To basic stitching techniques learning fundamentals hand stitching techniques such as running stitch back stitch and others.

CO2. Proficiency in embroidery developing skills in decorative stitches techniques such as satin stitch, chain stitch, French knot and others to create designs and patterns.

CO3. Knowledge of Cross Stitch understanding the Cross Stitch technique including reading and interpreting patterns stitching on different fabric Counts and creating detailed Cross Stitch design.

Course Name: knitting technology

CO1. To understanding of knitting machinery learning about different types of knitting machines including circular knitting machines, plate knitting machines and warp knitting machines as well as their Components and functions.

CO2. To developing skills in various knitting techniques such as knit stitch, rib stitch lace and others.

CO3. To studying the principle of fabric structure in knitted Textiles including stitch pattern gauge tension gauge and elasticity.

Course Name: CAD (Computer aided design)

CO1. Proficiency in CAD software mastery of industries standard CAD software such as Adobe Illustrator Adobe Photoshop CorelDraw or specialized fashion design.

CO2. Digital sketching and illustration developing skills in creating digital fashion sketches and illustrations.

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CO3. Technical drawing and specification sheet learning to create technical drawing and specification sheets for fashion designs including flat sketching detailed drawing and garment Construction diagrams.

Course name: fashion illustration and appreciation

CO1. Technical skills to develop proficiency in sketching drawing and illustrating fashion figure.

CO2. Understanding design element gain knowledge of design principles such as line, shape, proportion, Color and texture.

CO3. Fashion history and learn about the historical evolution of fashion and current trends.

Course Name: Draping pattern making and Construction

CO1. Draping techniques develop proficiency in draping fabric on dress forms to create various garment shapes and silhouettes.

CO2. Pattern making skills learn how to translate fabric into flat pattern pieces using techniques such as tracing slashing and pivoting to create accurate patterns.

CO3. To gain hands on experience in Constructing garments from patterns including marking, cutting, Sewing and finishing techniques.

Course Name: CAD

CO1. Computer design in the Context of fashion design to the use of Computer software to create digital designs.

CO2. To design for garments textile accessories and other fashion related to product software allows designer to create modify and visualize designs.

CO3. To gain Combination inside into the day-to-day operations of a design from or department familiarizing yourself with industry practices.

Course Name: Internship of Design

CO1. To gain practical experience of working in a professional design environment applying theoretical knowledge to real word projects and challenges.

CO2. To gain inside into the day-to-day operations of a design firm and department.

CO3. To manage design projects effectively including setting goal is establishing timelines and coordinating with team members and clients.

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Course Name: fashion illustration and appreciation

CO1. To understand fashion history student should gain knowledge of the evolution of fashion through different eras, styles and cultural influences.

CO2. Appreciation of fashion as statics developing An Eye for fashion statics including Colour theory Composition and silhouettes.

CO3. Fashion illustration skills mastering various techniques for fashion illustration.

Course Name: fashion industry marketing and management.

CO1. Required knowledge of Retail Management strategies store operations inventory management, visual merchandising and customer services within the fashion details sector.

CO2. To product development and merchandising done about the product development process including designs Sourcing production and marketable fashion product.

CO3. Brand development and Management to understand the principles of brand identity.

Course Name: Basics of design and illustration

CO1.To Understanding principles of design this includes learning about balance, Contrast Emphasis, movement pattern, rhythm and Unit

CO2. To Mastery of drawing fundamentals learning how to sketch use lines, shapes and shading to create realistic.

CO3.To Enhance design layouts.

CO4. To Pro create illustrate and design work.

CO5.To Shading to create realistic or stylized illustrations.

Course Name: Concept of Fashion

CO1. To Understanding the historical and cultural significance of fashion.

C02.To Analyzing Trends and their impact on society and Consumer behavior.

CO3. To Identifying key element of fashion design such as silhouettes Color theory and textile selection.

CO4.ToDeveloping critical thinking skills to value the ethical and sustainable aspects of the fashion history.

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CO5. To Applying principles of fashion styling and presentation.

Course Name: Basic of sewing-1

CO1.To Understanding various types of fabrics their properties and appropriate use.

CO2.Practicing basics sewing skills including seam Construction hemming and garment Construction.

CO3. Developing proficiency using a sewing machine and hands sewing techniques.

CO4. Gaining knowledge of garment Construction methods and techniques such as that's the darts pleats and gathers.

CO5. Applying finishing techniques to government such as pressing top stitching adding closures, zippers buttons.

Course Name: Fibre to fabric

CO1. Understanding the characteristics and properties of various natural and synthetic fibres used in textile production.

CO2. Exploring the processes involved in fibre production including cultivation harvesting and processing.

CO3. Learning about the chemical and mechanical method used in fibre processing, spinning carding and weaving.

CO4. Analyzing the relationship between fibre properties and Fabric characteristics such as strength elasticity and texture.

CO5. Evaluating the quality and performance of fabric through laboratory and analysis.

Course Name: Traditional textile

CO1.To Understanding the historical significance and cultural heritage of traditional textile from different region and cultures around the world.

CO2.Toldentifying various traditional textile techniques such as weaving dyeing embroidery and printing.

CO3.To Exploring the material traditional used in textile production including natural fibres dies and embellishments.

CO4. To Analyzing the symbolism and motive present in traditional textile designs.

CO5.To Including hand crafted methods and tools used by artisans.

Course Name: fabric Construction

CO1. To Understanding the principles and techniques of fabric Construction including weaving knitting and non-woven methods.

CO2. To Identifying different types of fabric structures and their characteristics such as plain weave, twill, satin, Jersey, knit and felt.

CO3. To Analyzing the factors that influence fabric properties, such as fibres type, yarn Construction, and Fabric structure.

CO4.ToLearning about the relationship between fabric Construction and end use application such as apparel, home textile and technical textiles.

CO5.To Practicing hands on fabric Construction Techniques through laboratory or projects.

Punjabi

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਪਹਿਲਾ ਬੀ.ਸੀ.ਏ/ਬੀ.ਐਸ.ਸੀ ਐਫ.ਡੀ ਪ੍ਰੋਗਰਾਮਆਊਟਕਮ

CO.1'ਸ੍ਰੋਮਣੀ ਪੰਜਾਬੀ ਕਾਵਿ' ਵਿੱਚ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕਵਿਤਾਵਾਂ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.2 'ਮੰਚ ਘਰ, ਪੁਸਤਕ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਇਕਾਂਗੀਆਂ ਪੜ੍ਹਨ ਨਾਲ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਹੋਣਾ

CO.3 ਭਾਸ਼ਾ ਤੇ ਟਕਸਾਲੀ ਭਾਸ਼ਾ ਦੇ ਨਾਲ ਸੰਬੰਧਿਤ ਜਾਣਕਾਰੀ ਦੇਣਾ

CO.4 ਪੈਰਾਂ ਰਚਨਾ ਲਿਖਣ ਸਬੰਧੀ ਤੇ ਪੈਰਾ ਪੜ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਕਰਨ ਵਿੱਚ ਸਹਾਇਤਾ ਕਰਨਾ

Course Name- Business Communication

CO1. This course allows students to develop knowledge, skills and judgement around human communication.

CO2. To facilitate their ability to work collaboratively with others.

CO3: Learner will be conversant with business or official communication terms and writing skills.

CO4: It will enable them to enhance their verbal communication using modern technology.

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Department of Commerce

Programme: Bachelor of Commerce (B. Com)

Program Outcomes

PO1: To have a solid understanding of various business concepts, including marketing, finance, accounting, economics, and management.

PO2: To develop strong analytical skills through courses in accounting, statistics, and economics, which enable them to analyse financial data, market trends, and business strategies.

PO3: To gain financial literacy, understanding financial statements, budgeting, financial analysis, and investment principles.

PO4: To enhance communication skills, including business communication, report writing, and presentation skills.

PO5: To identify problems within a business context and apply analytical and critical thinking skills to develop effective solutions.

PO6: To Provide graduates with the knowledge and skills needed to start and manage their own businesses.

PO7: To develop an understanding of ethical issues in business and are equipped with ethical decision-making frameworks.

PO8: To make proficient in use of technology in business and computer applications relevant to business operations.

PO9: Through group projects and presentations, students learn to work effectively in teams, developing collaboration and leadership skills.

PO10: To serve as a foundation for various career paths such as accounting, finance, marketing,

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human resources, and management.

PO11: To prepare students for further studies like pursuing a Master of Commerce (M.Com, MBA, or specialized certifications like Chartered Accountancy (CA), Certified Public Accountant (CPA), or

Chartered Financial Analyst (CFA).

PO12: To provide students with a comprehensive understanding of business principles, practical skills, and a mindset that prepares them for success in the dynamic world of commerce.

Program Specific Outcomes

PSO1: To analyses data and make informed business decisions.

PSO 2: To have a solid foundation in Marketing, Accounting and Financial management skills.

PSO 3: To develop students' critical thinking and problem-solving abilities, enabling them to analyses

complex business problems, identify viable solutions, and make sound decisions.

Course Outcomes

Course Name: Financial Accounting (BCG-103)

CO1: To acquire conceptual Knowledge of financial accounting and the techniques for preparing accounts.

CO2: To comprehend the components of financial statements, including the balance sheet, income statement, and cash flow statement.

CO3: Capability to prepare financial statements.

CO4: Analyzing financial statements to assess the financial health and performance of an organization.

CO5: Knowledge of Generally Accepted Accounting Principles (GAAP) or International Financial Reporting Standards (IFRS) and their application in preparing financial statements

Course Name: Business Organization (BCG-104)

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CO1: To provide basic knowledge to the students about organization and management of a business enterprise.

CO2: Understanding Organizational Structures

CO3: Understanding the behavior of individuals and groups within organizations

CO4: Ability to analyze the external environment and internal resources of an organization to develop strategic plans and make decisions

CO5: Understanding key HR functions, such as recruitment, selection, training, performance management, compensation, and employee relations, and their role in achieving organizational objectives.

Course Name: Business Statistics (BCG-106)

CO1: To introduce to the basics of statistics and helps the students to acquaint with the applications of statistical techniques in business decisions.

CO2: Develop the ability to interpret statistical results accurately and draw meaningful conclusions

CO3: Learn methods for collecting, organizing, and summarizing data.

CO4: Understand methods for forecasting future trends and patterns based on historical data, including time series analysis, regression modeling, and other forecasting techniques.

CO5: To understand consumer behavior, including segmentation, targeting, and positioning strategies.

Course Name: Business Communication (BCG-105)

CO1: Develop proficiency in writing various business documents.

CO2: Develop interpersonal communication skills to build rapport, establish trust, and maintain positive relationships.

CO3: Learn proper business etiquette and protocol for professional interactions.

CO4: Enhance writing skills for drafting, revising and editing business documents.

CO5: Understand ethical considerations in business communication.

Course Name: Computer Fundamental (BCG-107)

CO1: To understand basic Computer Operations.

CO2: Gain knowledge of computer hardware components and software types.

CO3: Develop proficiency in using word processing software.

CO4: Acquire skills in creating and delivering presentations using presentation software

CO5: Understand the functions and capabilities of web browsers and email clients, including searching the web,

Course Name: Advanced Financial Accounting (BCG-203)

CO1: To have Knowledge of depreciation, single entry system, hire purchase business and partnership & its reconstitution.

CO2: In-depth understanding of various concepts of Accounting.

CO3: Ability to read, understand and trace the execution of programs.

CO4: Skill to debug a program.

CO5: Skill to write program code in C to solve real world problems.

Course Name: Commercial Laws (BCG-204)

CO1: To impart basic Knowledge of important business laws along with relevant cases.

CO2: To Understand Legal Framework governing commercial transactions, including contract law,

agency law, and business entities.

CO3: To Understanding LLP Laws.

CO4: To understand the legal principles governing the sale of goods.

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CO5: To make aware of consumer protection laws.

Course Name: Business Economics (BCG-205)

CO1: To explain different terms used in Business economics.

CO2: To understand the basic concepts for higher education in management /economics.

CO3: To acquaints the students with the concepts of microeconomics.

CO4: To understand the behaviour of firms under different market structures.

CO5: It is required for cost and benefit analysis in corporate organizations

Course Name: Functional Management (BCG-206)

CO1: To provide basic knowledge to the student about the organization and management of a business enterprise.

CO2: To gain a comprehensive understanding of the various functional areas within an organization.

CO3: To develop operational plans, set objectives, allocate resources, and establish control mechanisms

CO4: To understand the roles and responsibilities of functional managers.

Course Name: Punjabi Compulsory (BCG-202)

CO1: This course connects the students to their roots.

CO2: To understand literary terms generally and concepts it develops confidence to read and write an analytical thinking.

CO3: Knowledge of Punjabi language helps them to think critically while studying Punjabi literature.

CO4: Students can express their views and ideas on various topics.

Course Name: Corporate Accounting (BCG-303)

CO1. Demonstrate a comprehensive understanding of the conceptual framework of corporate accounting, including principles, standards, and regulatory requirements.

CO2. Apply various techniques and methods to prepare accurate and reliable corporate financial statements.

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CO 3. analyze and interpret financial data to evaluate the financial performance and position of a corporation, using ratio analysis, trend analysis, and other financial metrics.

CO 4. Evaluate the impact of corporate transactions and events on financial statements, including mergers, acquisitions, investments, and divestitures, in accordance with accounting standards and principles.

CO 5. Demonstrate proficiency in using accounting software and tools to record, analyze, and report corporate financial information effectively and efficiently.

Course Name: Company laws (BCG-304)

CO 1. Students will gain a comprehensive understanding of the legal framework governing companies in India as per the Companies Act 2013, including its evolution, key provisions, and regulatory authorities involved.

CO 2. Students will be able to identify and explain the essential compliance requirements mandated by the Companies Act 2013.

CO 3. Students will develop skills related to corporate governance practices, including understanding the roles and responsibilities of directors, audit committees, and other key stakeholders

CO 4. Students will learn how to assess legal risks associated with company operations and transactions, including mergers, acquisitions, and corporate governance issues, and apply legal strategies to mitigate these risks in compliance with the Companies Act 2013.

CO 5. Students will be able to apply their knowledge of the Companies Act 2013 to real-world scenarios, and develop solutions.

Course Name: Financial Management (BCG-305)

CO 1. Financial Analysis Skills: Students will develop the ability to analyze financial statements, interpret financial ratios, and assess the financial health and performance of companies.

CO 2. Risk Management Competence: Students will acquire skills in identifying, assessing, and managing financial risks faced by organizations, including market risk, credit risk, liquidity risk.

CO 3. Capital Budgeting Proficiency: Students will learn various techniques and methods used in capital budgeting, such as net present value (NPV), internal rate of return (IRR), payback period, and profitability index, and apply these tools.

CO 4. Financial Planning and Forecasting: Students will gain expertise in financial planning processes,

including budgeting, forecasting cash flows, and setting financial targets, enabling them to develop realistic financial plans.

CO 5. Corporate Finance Knowledge: Students will understand the principles of corporate finance, including capital structure decisions, dividend policy, working capital management, and financing options.

Course Name: International Business BCG-306

CO 1. Students will be able to analyses and interpret the complex global business environment, including economic, political, cultural, and legal factors influencing international business operations.

CO 2. Students will develop the ability to evaluate and compare various market entry strategies such as exporting, licensing, joint ventures, and foreign direct investment, and suitability for different business scenarios.

CO 3. Students will gain an understanding of cross-cultural management challenges and develop strategies to effectively manage cultural diversity in international business settings.

CO 4. Students will learn to assess and analyses international trade policies, including tariffs, trade agreements, and their impact on global business operations.

CO 5. Students will be able to formulate comprehensive global business strategies considering market dynamics, ethical considerations.

Course Name: Business Environment: (BCG-307)

CO 1. Students will be able to analyze and interpret the economic factors influencing the insurance business, including market trends, inflation rates, interest rates, and economic policies.

CO 2. Evaluate Operational Challenges: Students will develop skills to identify and evaluate operational challenges faced by insurance companies.

CO 3. Analyze Financial Performance: Students will gain the ability to analyze financial statements of insurance companies, assess their solvency ratios, profitability margins etc. to make informed business decisions

CO 4. Apply Strategic Management Concepts: Students will apply strategic management concepts to the insurance sector, including competitive analysis, market segmentation, product development, distribution channels, and customer relationship management.

CO 5. Assess Legal and Ethical Issues: Students will demonstrate an understanding of legal and ethical issues in the insurance industry, including contract law, consumer protection etc.

Course Name: Good Services Tax (BCG 403)

CO 1. Understand the fundamental principles of GST, including its purpose, scope, and objectives in the context of taxation and economic management.

CO 2. Analyze and interpret the key provisions and regulations of GST, including registration and filing of returns, to ensure compliance and efficient tax management.

CO 3. Apply knowledge of GST principles to assess and calculate tax liabilities accurately for various transactions involving goods and services and composition schemes where applicable.

CO 4. Evaluate the impact of GST on business operations, financial management, and decision-making processes, considering factors.

CO 5. Demonstrate proficiency in using GST software and tools for record-keeping, tax calculations, and reporting, enhancing efficiency and accuracy in GST compliance and reporting processes.

Course Name: Industrial Law (BCG-404)

CO 1. Understand the fundamental principles and concepts of industrial law, including the legal framework governing labour relations and industrial disputes.

CO 2. Analyze and interpret key provisions of industrial laws such as the Industrial Disputes Act and Minimum Wages Act to ensure compliance in industrial settings.

CO 3. Evaluate the impact of industrial laws on employee rights, employer responsibilities, and organizational policies, fostering a balanced perspective on labor-management relations.

CO 4. Apply knowledge of industrial laws to real-world scenarios, resolving legal issues and promoting fair practices in the workplace.

CO 5. Develop critical thinking and problem-solving skills by examining case studies and legal precedents in industrial law, enabling informed decision-making and ethical conduct in industrial settings.

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Course Name: Principles and Practices of Banking and Insurance (BCG-405)

CO 1. Demonstrate an understanding of the fundamental principles governing banking and insurance industries, including risk management, financial intermediation, and regulatory compliance.

CO 2. Apply theoretical knowledge to analyses real-life scenarios in banking and insurance, such as loan disbursement processes, and claims settlement procedures.

CO 3. Evaluate the impact of economic, technological, and regulatory changes on the banking and insurance sectors, and propose strategic responses to these challenges.

CO 4. Develop skills in financial statement analysis, credit assessment, and risk evaluation to make informed decisions in banking and insurance operations.

CO 5. Demonstrate ethical awareness and professional conduct in dealing with clients, stakeholders, and regulatory authorities within the context of banking and insurance practices.

Course name: Cost accounting (BCG-406)

CO 1. Understand the fundamental concepts of cost accounting, including cost classification, cost behavior, and cost allocation methods.

CO 2. Apply various costing techniques such as job costing, process costing, and activity-based costing to determine product or service costs accurately.

CO 3. Analyze costing data to make informed decisions regarding pricing, product mix, and resource allocation within an organization.

CO 4. Utilize cost accounting information for effective planning and budgeting, including cost estimation and forecasting for future periods.

Course Name: Management Accounting (BCG-503)

CO1: Understanding Management Accounting Concepts

CO2: Ability to analyses Cost Classification and Costing Systems.

CO3: To understand Budgeting and Forecasting.

CO4: Cost Management and Control.

CO5 Develop skills in using management accounting information to make informed business decisions

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Course Name: Direct Tax Laws (BCG-504)

CO1: To provide basic knowledge and equip students with application of principals and practice of income tax act-1961

CO2: Acquire skills in tax planning strategies.

CO3: Gain familiarity with the assessment procedures under the Income Tax Act

CO4: Learn about the taxation of non-residents (foreign individuals and entities) in India

CO5: Learn about the taxation of non-residents (foreign individuals and entities) in Indi

Course Name: Auditing (BCG-505)

CO1: Gain knowledge of the concept, nature, and objectives of auditing

CO2: Learn about the auditing standards and frameworks governing the conduct of audits

CO3: Understand the requirements and components of the audit report

CO4: Acquire knowledge of fraud risk factors, red flags, and techniques for detecting and preventing fraud in financial statements

CO5: To provide knowledge of auditing principles, procedures and techniques in accordance with the professional standards.

Course Name: Banking services management (BCG-521)

CO1: Gain knowledge of the structure, functions, and regulatory environment of the banking industry

CO2: Understand various banking products and services offered to individual and corporate customers

CO3: Develop skills in managing customer relationships in the banking sector.

CO4: Understand credit risk assessment and management techniques used by banks Interest

CO5: Develop skills in analyzing bank financial statements.

Course Name: Insurance service management (BCG-522)

CO1: To develop understanding about Principles of insurance and its usefulness in business.

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CO2: Gain knowledge of the structure, functions, and regulatory environment of the insurance industry.

CO3: Understand various types of insurance products and services offered to individuals and business.

CO4: Learn about risk management concepts and techniques used by individuals and businesses.

CO5: Understand the processes and procedures involved in insurance operations, including underwriting, policy issuance, claims processing, premium billing, reinsurance, and risk assessment.

Course Name: Punjabi Compulsory (BCG-502)

CO1: To enriches Mother Language among the students

CO2: The students know about vocabulary and basic grammar.

CO3: The students know how to study language and literature

Course name: Operation research (BCG-603)

CO1: Gain knowledge of the concepts, principles, and methodologies of operations research.

CO2: Develop skills in formulating and solving optimization problems using mathematical techniques.

CO3: Learn how to model decision-making problems under uncertainty using decision trees, probability theory, sensitivity analysis, and risk assessment techniques.

CO4: Acquire knowledge of forecasting methods and techniques used to predict future outcomes and trends, including time series analysis, regression analysis, and causal modeling.

CO5: Understand inventory management principles and techniques

Course name: Corporate Governance (BCG-604)

CO1: Understanding of Corporate Governance Concepts

CO2: Understand the roles, rights, and responsibilities of different stakeholders in a corporation

CO3: Learn about corporate governance laws, regulations, codes, and guidelines governing corporations

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CO4: Understand the composition, structure, functions, and responsibilities of the board of directors in corporate governance

CO5: Acquire knowledge of risk management principles and practice

Course name: Workshop on Income tax and e-filing(BCG-605)

CO1: Gain knowledge of the basic concepts, provisions, and regulations of income tax laws

CO2: Learn how to use electronic filing (e-filing) systems provided by tax authorities

CO3: Acquire skills in preparing accurate and complete income tax returns using e-filing software or online platforms

CO4: Understand the procedures for verifying and submitting income tax returns electronically

CO5: Learn about tax planning strategies and techniques

Course name: Foreign Exchange Management (BCG 621)

CO1: Gain knowledge of the structure, functions, and participants of the foreign exchange market.

CO2: Understand the concept of foreign exchange rates, including spot rates, forward rates, and exchange rate quotation.

CO3: Learn about foreign exchange risk exposure faced by businesses and investors.

CO4: Acquire knowledge of currency trading principles and practice.

CO5: Understand the regulatory framework governing foreign exchange transactions.

Course name: Risk management and Insurance (BCG-622)

CO1: Gain knowledge of risk management concepts, including the nature of risk, risk assessment, risk identification, risk analysis, risk mitigation, and risk financing.

CO2: Understand the principles and practices of insurance, including risk pooling, risk transfer, risk sharing, indemnity, insurable interest, utmost good faith, and contribution.

CO3: Learn about different types of insurance risks, including property risks, liability risks, casualty risks, life risks, health risks, and financial risksCO4: Acquire skills in assessing and evaluating insurance risk.

CO5: Understand the process of insurance product design and development.

Course Outcome English

Course Name- Gen English (Prose & Grammar) Credit-4, L-6

CO1. This course helps in improvement in the skills of listening, speaking, reading and writing and develops creative writing skills.

CO2. It also enables them to speak about the writers and learn correct grammatical form, appropriate vocabulary and correct word order.

CO3. It enables students to speak about the poets and explain the style of the poem.

CO4. Write letters in the correct format and language.

Course Name- Gen English (Poetry & making Connections)

CO1. The students learn correct appropriate vocabulary and correct word order.

CO2. It develops creative Writing skills.

CO3. It also enables them to speak about the writers.

CO4. Students also familiar with the background of the academic writings.

Course Name Gen English (Poetry & Drama)

CO1. Critically understand and analyses poetry across a wide range of literary age and context.

CO2. It enables students to speak about the poets and explain the style of the poem.

CO3. It helps the students to understand the genre of drama.

CO4. It helps them to understand the different types of play and drama.

Course Name Gen English (Novel and One Act Plays)

CO1. They will be able to participate in role plays and mini-talks.

CO2. Acquire a broad perspective of the novel as a literary genre and the relevant historical, geographical, and cultural identical backgrounds.

CO3. Appreciate the working of various literary devices like irony in fiction.

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CO.1'ਦੇ ਰੰਗ ਪੁਸਤਕ ਵਿੱਚ ਕਹਾਣੀਆਂ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.2 ਸੰਸਾਰ ਦੀਆਂ ਪ੍ਰਸਿੱਧ ਹਸਤੀਆਂ ਦੇ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਲੇਖਕਾਂ ਦੇ ਜੀਵਨ ਨੂੰ ਜਾਨਣ ਦਾ ਮੌਕਾ

CO.3 ਭਾਸ਼ਾ ਵੰਨਗੀਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸਦੇ ਬਾਰੇ ਜਾਣੂ ਕਰਾਉਣਾ

CO.5 ਪੈਰਾ ਰਚਨਾ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਨਾ

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਦੂਜਾ ਬੀ.ਸੀ.ਏ /ਬੀ.ਐਸ.ਸੀ ਐਫ.ਡੀ.ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਸ਼ਿਰੋਮਣੀ ਪੰਜਾਬੀ ਕਹਾਣੀ ਭਾਗ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕਹਾਣੀ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.2 ਸ਼੍ਰੋਮਣੀ ਪੰਜਾਬੀ ਕਾਵਿ ਵਿੱਚ ਗੁਰੂਆਂ ਪੀਰਾਂ ਨਾਲ ਸਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.3 ਸ਼ਬਦ ਰਚਨਾ ਦੇ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦੇਣਾ

CO.4 ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ ਤੋਂ ਜਾਣੂ ਕਰਵਾਉਣਾ

ਬੀ.ਏ ਤੀਜਾ ਸਮੈਸਟਰ ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਨਾਲ ਜੁੜਨ ਦਾ ਮੌਕਾ

CO.2 ਆਧੁਨਿਕ ਇਕਾਂਗੀ ਵਿੱਚ ਵੱਖ ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨ ਦਾ ਮੌਕਾ

CO.3 ਸੰਖੇਪ ਰਚਨਾ ਅਤੇ ਅਸ਼ੁੱਧ ਸ਼ਬਦ ਜੋੜਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖਣ ਦਾ ਅਭਿਆਸ

CO.4 ਮੂਲ ਵਿਆਕਰਨਿਕ ਇਕਾਈਆਂ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਵਰਗੀਕਰਨ ਪੜਨ ਦਾ ਅਵਸਰ ਪ੍ਰਾਪਤ ਕਰਨਾ

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਚੌਥਾ ਪ੍ਰੋਗਰਾਮ ਆਊਟਕਮ

CO1."ਮੇਰੀ ਜੀਵਨ ਗਾਥਾ" ਸਵੈ ਜੀਵਨੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

"CO2.ਫ਼ਾਸਲੇ "ਨਾਟਕ ਦੇ ਵਿਸ਼ੇ ਅਤੇ ਕਲਾਤਮਕ ਪੱਖ ਬਾਰੇ ਗਿਆਨ ਹੋਵੇਗਾ

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CO3.ਲੇਖ ਰਚਨਾ ਕਿਵੇਂ ਕੀਤੀ ਜਾਂਦੀ ਹੈ, ਸਿੱਖਾਇਆ ਜਾਵੇਗਾ।

CO4ਅਸ਼ੁੱਧ ਸਬਦਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਨਾ ਦੱਸਿਆ ਜਾਵੇਗਾ

CO5.ਗੁਰਮੁਖੀ ਲਿਪੀ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

ਬੀ.ਏ ਭਾਗ ਪੰਜਵਾਂ ਸਮੈਸਟਰ ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਚੋਣਵੀਆਂ ਪੰਜਾਬੀ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ਾ ਵਸਤੂ/ ਸਾਰ /ਅਤੇ ਕਹਾਣੀ ਕਲਾ ਨੂੰ ਜਾਣਣ ਦਾ ਮੌਕਾ

CO.2 ਏਹੁ ਹਮਾਰਾ ਜੀਵਣਾ ਨਾਵਲ ਵਿੱਚ ਵਿਸ਼ਾ ਵਸਤੂ ਅਤੇ ਪਾਤਰ ਚਿਤਰਨ ਕਰਨ ਦਾ ਮੌਕਾ

CO.3 ਪੈਰਾ ਰਚਨਾ ਅਤੇ ਸਰਲ ਅੰਗਰੇਜ਼ੀ ਪੈਰੇ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ ਕਰਨਾ ਸਿੱਖਣਾ

CO.4 ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ ਵਕਾਤਮਕ ਜੁਗਤਾਂ, ਕਾਰਕ ਤੇ ਕਾਰਕੀ ਸਬੰਧ ਜਾਨਣ ਦਾ ਅਫਸਰ ਪ੍ਰਾਪਤ ਹੋਣਾ

ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਛੇਵਾਂ ਪ੍ਰੋਗਰਾਮ ਆਉਟਕਮ

CO1. "ਮੱਧਕਾਲੀ ਸਾਹਿਤ "ਪੁਸਤਕ ਵਿੱਚ ਮੱਧਕਾਲੀ ਕਵੀਆ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO2. "ਧਰਤੀਆਂ ਦੇ ਗੀਤ" ਸਫ਼ਰਨਾਮੇ ਵਿੱਚ ਉੱਥੋਂ ਦੇ ਲੋਕਾਂ ਬਾਰੇ ਗਿਆਨ ਪ੍ਰਾਪਤ ਹੋਵੇਗਾ।

CO3. ਸਾਹਿਤ ਦੇ ਰੂਪਾਂ ਦੀ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

CO4. ਵਿਆਕਰਣ ਦੀਆਂ ਇਕਾਈਆਂ ਬਾਰੇ ਵੇਰਵੇ ਸਹਿਤ ਜਾਣਕਾਰੀ ਮਿਲੇਗੀ।

Basic Punjabi

ਮੁਢੱਲੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਪਹਿਲਾ ਬੀ.ਏ /ਬੀ.ਐਸ.ਸੀ /ਬੀ. ਕਾਮ ਪ੍ਰੋਗਰਾਮ ਆਊਟਕਮ

CO.1 ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਲਿਖਣੀ ਤੇ ਪੜਨੀ ਸਿੱਖੀ

CO.3ਗੁਰਮੁਖੀ ਲਿਪੀ ਅਤੇ ਮਾਤਰਾਵਾਂ ਨਾਲ ਸਬੰਧਿਤ ਲਿਖਣਾ ਦੱਸਣਾ

CO.4 ਗੁਰਮੁਖੀ ਆਰਥੋਗਰਾਫੀ ਦੇ ਰਾਹੀਂ ਸਵਰ ਤੇ ਵਿਅੰਜਨਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਉਣਾ

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CO.6 ਬਿੰਦੀ, ਟਿੱਪੀ, ਅਧੱਕ ਦੀ ਵਰਤੋਂ ਨਾਲ ਸ਼ਬਦ ਬਣਾਉਣੇ ਸਿੱਖੇ, ਸ਼ੁੱਧ ਸ਼ਬਦ ਜੋੜ ਲਿਖਵਾਏ

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਸਮੈਸਟਰ ਦੂਜਾ ਬੀ.ਸੀ.ਏ /ਬੀ.ਐਸ.ਸੀ.ਐਫ.ਡੀ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਪੰਜਾਬੀ ਸ਼ਬਦ ਬਣਤਰ ਵਿੱਚ ਨਵੇਂ ਸ਼ਬਦਾਂ ਦਾ ਨਿਰਮਾਣ ਕਰਨਾ ਦੱਸਣਾ

CO.2 ਸੰਯੁਕਤ ਸ਼ਬਦ, ਦੇਸ਼ਾਤੀ ਸ਼ਬਦ, ਮਿਸ਼ਰਤ ਸ਼ਬਦਾਂ ਤੋਂ ਜਾਣੂ ਕਰਾਣਾ

CO.3 ਇਕ ਵਚਨ ਬਹੁ ਵਚਨ ਲਿੰਗ ਵਚਨ, ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ ਬਣਾਉਣੇ ਸਿੱਖੇ

CO.4 ਰੋਜਾਨਾ ਵਰਤੀ ਜਾਣ ਵਾਲੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ ਸਿੱਖੀ

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਤੀਜਾ ਸਮੈਸਟਰ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਅੰਗਰੇਜੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ ਕਰਨ ਦੀ ਕਲਾ ਸਿੱਖਣਾ, ਪੈਰਾ ਰਚਨਾ ਲਿਖਣਾ

CO.2 ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਕਵਿਤਾਵਾਂ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ

CO.3 ਲੇਖਕਾਂ ਦੀਆਂ ਕਹਾਣੀਆਂ ਪੜ੍ਹ ਦਾ ਅਫਸਰ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4 ਵੱਖ ਵੱਖ ਵਿਸ਼ਿਆਂ ਤੇ ਨਿਬੰਧ ਪੜ੍ਹਨ ਦਾ ਮੌਕਾ ਪ੍ਰਾਪਤ ਹੋਣਾ ਜਿਵੇਂ ਕਿ ਆਓ ਗੱਲਾਂ ਕਰੀਏ, ਮਨੁੱਖ ਕੁਦਰਤ ਦੀ ਨੇਕ ਔਲਾਦ।

ਮੁੱਢਲੀ ਪੰਜਾਬੀ ਚੌਥਾ ਸਮੈਸਟਰ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

CO.1 ਲੇਖਕਾਂ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨੀ ਸਿੱਖਣੀ

CO.2 ਵਿਸ਼ਾ ਵਸਤੂ ਅਤੇ ਸਾਰ ਲਿਖਣ ਦਾ ਮੌਕਾ

CO.3 ਕਵੀਆਂ ਦੇ ਜੀਵਨ ਬਾਰੇ ਅਤੇ ਰਚਨਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਾ

CO.4 ਲੇਖ ਰਚਨਾ ਅਤੇ ਅਸ਼ੁੱਧ ਸ਼ਬਦਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਕੇ ਲਿਖਣ ਬਾਰੇ ਸਿੱਖਣਾ

ਮੁਢੱਲੀ ਪੰਜਾਬੀ ਭਾਗ ਪੰਜਵਾਂ ਆਊਟਕਮ ਪ੍ਰੋਗਰਾਮ

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