



**TARKESHWAR NARAIN AGRAWAL
COLLEGE OF EDUCATION**



PLOs & CLOs of B.Ed. B.B.A, B.C.A AND M.A in Education



PROGRAMME LEARNING OUTCOMES OF B.ED.

- To enable the student teachers to cooperate and enhance the positive outlook towards the Social and emotional environment of the Society.
- To reduce Gender inequality from the traditional backward/Prejudices of Society.
- To enhance speaking, writing, and balance with work and deeds.
- To be skilled in competencies of professional behavior.
- Capable to be Skilled in enhancing Child-centered education.
- Able to Create Social awareness through their personal and professional Capabilities.
- Enhance practical-based learning to give their Students.
- Gain appropriate knowledge for assessment strategies for facilitating learning.
- To be able to interact with Children who come from different socioeconomic backgrounds and backward sections.
- To develop language diversity in classroom teaching and its better outcomes provide in learning.

B.Ed. Course Learning Outcomes

- The **B.Ed.** program aims to prepare student-teachers with the essential skills, knowledge, and attitudes to be effective educators and contribute positively to society. Upon completing the program, student-teachers will be equipped to achieve the following:

General Learning Outcomes:

- **Promote Positive Social and Emotional Development:** Student-teachers will learn to foster cooperation and enhance a positive outlook towards the social and emotional environment in society.
- **Reduce Gender Inequality:** The program emphasizes reducing gender biases and the prejudices that exist in society, promoting equality and social justice.
- **Enhance Communication Skills:** Student-teachers will develop strong speaking and writing abilities, balancing their professional commitments with ethical actions and responsible behavior.
- **Professional Competency Development:** Student-teachers will develop professional competencies that reflect positive behaviors and attitudes necessary for a successful teaching career.
- **Child-Centered Education:** Student-teachers will be skilled in creating and promoting child-centered learning environments that cater to the diverse needs of students.
- **Foster Social Awareness:** Student-teachers will be able to create social awareness through their personal and professional capabilities, inspiring students to engage with societal issues.
- **Practical-Based Learning:** They will enhance their ability to implement practical-based learning strategies that make lessons more meaningful and relevant for students.

- **Assessment Knowledge:** Student-teachers will gain appropriate knowledge and strategies for assessing students and facilitating their learning effectively.
 - **Inclusion of Diverse Backgrounds:** They will be equipped to work with children from various socio-economic backgrounds and marginalized communities, fostering inclusive education.
 - **Language Diversity in Teaching:** Student-teachers will develop strategies to promote language diversity in the classroom, improving learning outcomes for students from varied linguistic backgrounds.
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Course Learning Outcomes by Paper

- **CC-1: Childhood and Growing Up** Upon completing this course, student-teachers will:
 - **Understand Child Development:** Gain knowledge about child development theories and stages, with a focus on adolescence.
 - **Interact with Diverse Children:** Develop skills in observing and interacting with children from diverse socio-economic, cultural, and family backgrounds.
 - **Recognize Individual Differences:** Understand individual differences in cognitive abilities, interests, creativity, personality, values, and aptitudes, and how these differences affect learning.
 - **Support Learners' Adjustment:** Learn strategies to help children adjust in the classroom and educational setting.
 - **Socialization through Education:** Understand how education plays a key role in the socialization process and contributes to the overall development of children.
- **CC-2: Contemporary India and Education** Upon completing this course, student-teachers will:

- **Understand Constitutional Values in Education:** Develop an understanding of the constitutional values and their relation to the aims of education in India.
- **Philosophical and Sociological Perspectives on Education:** Analyze education from various philosophical and sociological perspectives to understand its role in shaping society.
- **Policy Frameworks for Public Education:** Understand key policy frameworks governing public education in India, such as the National Education Policy (NEP).
- **Analyze Social Issues in Education:** Understand current social problems in India that impact education, such as poverty, inequality, and regional disparities.
- **Role of Teachers in Social Reform:** Explore the crucial role of teachers in social reform and contributing to the development of society.
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- **CC-3: Learning and Teaching**
- Understand the role of **motivation** and **creativity** in enhancing the learning process.
- Analyze the educational implications of various **learning theories**.
- Explore creative approaches to **learning** and their application in the classroom.
- Develop an understanding of the **different roles** of a teacher in fostering an engaging learning environment.
- Gain insights into **types of intelligence, mental health,** and various **adjustment strategies** for diverse learners.
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- **CC-4: Language Across the Curriculum**

- Acquire knowledge about the **communication process**, focusing on both **verbal** and **non-verbal** skills.
- Understand the importance of **language** in the development and transmission of **knowledge**.
- Recognize the significance of **first** and **second languages**, **multilingualism**, and their impact on **culture**.
- Gain an understanding of the **historical evolution** of language and its role in education.
- Appreciate **language** as a tool for effective **learning** across subjects.

CC-5: Understanding the Disciplines and Subjects

- Develop a solid understanding of the **basic concepts** within various subjects.
- Recognize the importance of **research** in advancing knowledge and **subject development**.
- Master the **content** of the subject area and develop expertise to teach it effectively.
- Gain insights into **anthropological perspectives** on **culture** and **tribes**.
- Understand how different **disciplines** contribute to the holistic development of learners within a **national context**.

CC-6: Gender, School, and Society

- Understand the beliefs and biases related to **gender** in education and society.
- Examine the role of **schools**, **teachers**, **curriculum**, **textbooks**, and **peers** in challenging **gender inequalities**.

- Study the **role of women** in historical and contemporary **social reform movements**.
- Recognize the teacher's role as an **agent of social change** in addressing societal issues.
- Gain awareness of **policy perspectives** on **gender issues** in education and their implications for teaching practice.

- **CC-8: Knowledge and Curriculum**

- Understand various methods of **knowledge construction** and its **transmission** in educational settings.
- Explore different **aspects of knowledge** and how they interrelate to shape the curriculum.
- Examine the **social, cultural, economic, and technical** factors that influence the current **school curriculum** and **textbooks**.

- **CC-9: Assessment and Learning**

- Develop the ability to **analyze** and **interpret data** to draw meaningful inferences about student progress.
- Learn to use various forms of **feedback** to enhance and improve **student learning**.
- Gain a critical understanding of the **issues** and challenges in **assessment** and **evaluation** practices.
- Familiarize with different types of **assessment tools** that aid in evaluating and supporting **student learning**.
- Learn to design and implement **comprehensive, dynamic** assessment strategies that consider the **holistic development** of students.

CC:10 - Creating an Inclusive School

- **Understand legal provisions and policies** regarding Inclusive Education in India.
 - **Explain the causes, characteristics, and special needs** of children with physical, mental, economic, cultural diversity, and learning disabilities.
 - **Utilize cooperative learning strategies** in the classroom.
 - **Collaborate effectively with support teachers** to enhance the learning experience.
 - **Implement a learner-friendly evaluation process** to cater to diverse learning needs.
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OC:11 - Optional Course

11(A): Basic Education

- **Demonstrate an understanding of child development** and apply this knowledge in teaching at the basic school level.
- **Exhibit the skills, commitment, sensitivity, and knowledge** necessary for effectively handling children.
- **Observe and assess children's behavior** to plan and individualize the curriculum.
- **Recognize the uniqueness of each child** and offer tailored support to meet their needs.

- **Plan and implement developmentally appropriate programs** that support children's physical, social, emotional, and intellectual growth.
- **Demonstrate a clear understanding of intended outcomes** of teaching and be proficient in monitoring and diagnosing learning challenges.
- **Develop critical and analytical thinking skills** to evaluate situations effectively.

11(B): Health, Yoga, and Physical Education

- **Develop an understanding of the aims and objectives** of teaching health and physical education in schools/institutions.
- **Provide guidance to create awareness** regarding health and physical education in sports.
- **Become efficient and effective health and physical education teachers.**
- **Make health and physical education teaching innovative and engaging.**

11(C): Guidance and Counseling

- **Understand the importance of guidance and counseling** in educational settings.
- **Develop awareness of the tools and techniques** used in guidance.
- **Understand the role and professional ethics** of counselors in schools.

11(D): Environmental Education

- **Understand the concept of environmental studies** and develop an awareness of its importance.

- **Familiarize with contemporary environmental issues** and the need for sustainable development.

11(E): Understanding School Management and Leadership

- **Understand the responsibilities involved in running an institution** effectively.
- **Frame policies, rules, and regulations** for the smooth functioning of the institution.
- **Understand organizational structure** and the delegation of powers, authority, and responsibilities.
- **Provide professional leadership and dynamic supervision** to ensure smooth operations.
- **Coordinate various institutional activities** for overall development.
- **Foster conditions conducive to experimentation and research** within the institution.
- **Promote effective communication** to maintain positive working conditions and human relationships.
- **Resolve conflicts** that arise within the institution.
- **Ensure that the institution functions with social responsibility** and promotes the socio-emotional development of the community.

PC:7(A) - Pedagogy of School Subjects

PC:7 A & B1: Pedagogy of English

- **Enable student teachers to understand:**
 - The nature and characteristics of the English language.
 - The skills and requirements needed for mastering English.
 - Various approaches for teaching English.
 - Effective techniques for teaching different aspects of English.
 - How to write lesson plans focusing on the development of different English language skills.

PC:7 A & B2: Pedagogy of Hindi

- **Enable student teachers to understand:**
 - The nature, characteristics, and significance of the Hindi language.
 - The objectives and goals of teaching Hindi as a mother tongue.
 - The methods and approaches for planning successful Hindi teaching.
 - Approaches for teaching the different aspects of the Hindi language.

PC:7 A & B3: Pedagogy of Physical Science

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

- **Recognize the importance of physical science** in the curriculum.
- **Understand the aims and objectives** of teaching physical science.
- **Become familiar with effective methods and approaches** for teaching physical science.

- **Master core teaching skills** required for successful physical science instruction.
- **Organize content, plan instruction, and deliver lessons effectively.**
- **Apply appropriate evaluation techniques** in teaching physical science.

PC:7 A & B4: Pedagogy of Biological Science

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

- **Understand the nature and scope of biological science.**
- **Formulate instructional objectives** with a focus on behavioral outcomes.
- **Become familiar with effective teaching methods** for biological science.
- **Incorporate appropriate educational technology** and create low-cost teaching materials.
- **Evaluate and analyze biological content** for effective teaching.

PC:7 A & B5: Pedagogy of Mathematics

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

- **Understand the relevance and applications of mathematics** in everyday life.
- **Learn different approaches for teaching mathematics.**
- **Master various methods of planning and instruction** for teaching mathematics.
- **Organize activities** that help students develop mathematical skills.

PC:7 A & B6: Pedagogy of Social Science - I (History & Civics)

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

- **Understand the concept, nature, and scope of social science.**
- **Recognize the aims and objectives of teaching history and civics.**
- **Become acquainted with curriculum construction principles and methods.**
- **Apply appropriate methods and skills for teaching history and civics.**

PC:7 A & B7: Pedagogy of Social Science - II (Geography & Economics)

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

- **Understand the concept and scope of social sciences.**
- **Learn the correct methodology for teaching social science.**
- **Create unit plans and lesson plans effectively.**
- **Develop an understanding of the relationship between humans and the environment.**
- **Understand the interrelation between human occupations, natural resources, and natural regions.**
- **Acquire skills in teaching geography and economics.**
- **Develop knowledge of various evaluation methods and design effective evaluation tools.**

PC:7 A & B8: Pedagogy of Commerce

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

- **Gain knowledge of the current higher secondary syllabus for commerce** and understand its aims and objectives.
- **Understand the nature of commerce** and its importance in the curriculum.
- **Set clear learning objectives** for teaching commerce.
- **Learn and apply teaching methods, techniques, and devices** for effective commerce instruction.
- **Understand the role of commerce in the higher secondary syllabus.**
- **Use appropriate evaluation techniques** to assess students' progress in commerce.

PC:7 A & B9: Pedagogy of Computer Science

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

- **Understand the principles of curriculum construction** in computer science.
- **Develop skills in evaluating students' progress** in computer science.
- **Recognize the importance of computers in today's globalized world.**
- **Learn the history and development of computer science.**
- **Develop necessary skills for teaching computer science.**
- **Apply innovative methods for teaching computer science.**

- **Design achievement tests for evaluating student learning** in computer science.

PC:7 A & B12: Pedagogy of Sanskrit

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

- **Understand the nature, characteristics, and significance of Sanskrit.**
- **Know the aims and objectives of teaching Sanskrit** as an ancient Indian language.
- **Apply various approaches to plan and implement effective Sanskrit lessons.**
- **Incorporate different teaching strategies for various aspects of Sanskrit.**
- **Use available aids and *materials*** to enhance Sanskrit teaching.
- **Implement self-evaluation techniques** to assess teaching effectiveness and student learning in Sanskrit.

After completing the course, the student teacher will be able to: -

- The nature, characteristics, and significance of the Sanskrit language.
- The aims and objectives of teaching Sanskrit as an ancient Indian language.
- The various approaches to planning for a successful Sanskrit language.
- Approaches for teaching a different aspect of the Sanskrit language.
- Aids and other similar available materials could be used to teach the Sanskrit language.

PLOs & CLOs of. B.B.A, B.C.A

B.C.A Program Learning Outcomes (PLOs):

1. Communication & Professional Skills

- Develop effective written and verbal communication for business environments.
- Enhance critical thinking, analysis, and business decision-making.
- Master business correspondence and professional writing for career growth.
- Foster continuous improvement in communication skills for lifelong learning.
- Apply mathematical concepts to solve real-world computing problems.
- Use algorithms, logic, and computational thinking to address technology challenges.
- Build a foundation in mathematical theory for advanced computer science studies.
- Gain proficiency in IT systems, operating systems, software, and networking.
- Develop hands-on experience with database management and office software.
- Understand IT system components and apply technical skills for business use.
- Learn leadership and management principles for organizational success.
- Understand business processes, strategic thinking, and decision-making.
- Improve communication and leadership skills for personal and professional growth.

- Apply programming concepts (Python, C, VB.Net) to solve real-world problems.
- Develop software with modular programming, error handling, and efficient algorithms.
- Enhance technical proficiency in programming for engineering and software careers.
- Apply structured approaches to system design and analysis.
- Solve business and user needs through effective system design and collaboration.
- Develop documentation and reporting skills for system development processes.
- Understand operating system resource management and security principles.
- Gain proficiency in command-line tools (UNIX/Linux) for system administration.
- Apply security and user management skills to optimize system performance.
- Integrate multimedia concepts in user interaction and creative problem-solving.
- Develop multimedia applications and communicate technical concepts effectively.
- Design and manage secure networking systems and troubleshoot network issues.
- Develop scalable client-server solutions and implement distributed systems.
- Analyze financial data and apply ERP systems to automate business processes.
- Use financial and ERP data for business decision-making and optimization.
- Design and manage dynamic websites and client-server web applications.

- Integrate databases and web services into web applications for improved functionality.
- Apply data mining techniques to analyze large datasets and derive actionable insights.
- Design efficient data warehouses and apply ethical data-handling practices.
- Solve problems and develop robust applications using VB.Net and .NET technologies.
- Collaborate in teams to develop Windows applications focused on user experience.
- Apply critical thinking in ERP and accounting to solve business problems.
- Design ERP solutions that optimize financial and business processes while ensuring ethical responsibility.

BCA- Course Learning Outcomes (CLOs):

BCA-101: Communicative English

After completing the course, the student-teacher will be able to

- 1: Understand and apply the basic principles of effective business and government correspondence, including inquiry letters, sales letters, complaints, memos, agendas, and minutes.
- 2: Develop proficiency in various writing skills such as report writing, composition, and paragraph writing in different styles (argumentative, descriptive, explanatory, and narrative).
- 3: Gain a solid understanding of English grammar concepts, including sentence structure, tenses, active and passive voice, and parts of speech, and apply them in communication.

4: Demonstrate knowledge of professional writing practices such as job applications, CV writing, and preparation for interviews and group discussions.

5: Read and analyze selected short stories of prominent Indian business leaders, understanding their life stories and lessons for business communication.

BCA-102: Basic Mathematics

After completing the course, the student-teacher will be able to

1: Understand and apply logical reasoning and symbolic logic to solve problems in computing and mathematics.

2: Develop proficiency in set theory, relations, functions, and operations such as union, intersection, and Cartesian product.

3: Learn differentiation, including successive differentiation, partial differentiation, and applications in curve analysis and optimization.

4: Understand integral calculus, its applications in areas, volumes, and lengths, and solve problems involving multiple integrals.

5: Develop skills in analytical geometry, focusing on the equation of straight lines, pairs of straight lines, and circles in two-dimensional space.

BCA-103: Information Technology and Applications

After completing the course, the student-teacher will be able to

1: Understand the basic structure and components of a computer system, including hardware, software, and peripheral devices.

2: Develop proficiency in using common operating systems like Windows, MS-DOS, and Linux, and understand their evolution and functions.

3: Learn the fundamentals of database management systems, including data organization, storage, and retrieval methods.

4: Understand and apply key concepts of data communication and computer networks, including network protocols, devices, and topologies.

5: Gain practical skills in using Microsoft Office applications, such as Word, Excel, and PowerPoint, for creating and managing documents, spreadsheets, and presentations.

BCA-104: Principles of Management & Organization

After completing the course, the student-teacher will be able to

1: Understand the basic concepts of management, including its nature, scope, and functions (planning, organizing, staffing, directing, and controlling).

2: Gain an understanding of the evolution of management thought, including classical, neoclassical, and modern management theories.

3: Learn about different organizational structures, including formal and informal organizations, and understand key concepts like authority, responsibility, and delegation.

4: Develop knowledge of the functional areas of management, including production, marketing, finance, and personnel management.

5: Understand key management practices, such as decision-making, leadership, motivation, and communication, in organizational settings.

BCA-105: Python Programming

After completing the course, the student-teacher will be able to

- 1:** Understand the fundamentals of Python programming, including syntax, data types, operators, and control structures (loops and conditionals).
- 2:** Develop proficiency in writing Python functions, understanding the scope, and utilizing built-in functions and modules.
- 3:** Master Python data structures like lists, tuples, dictionaries, and strings, and use them for efficient data manipulation.
- 4:** Gain skills in handling errors and exceptions in Python, ensuring robust and error-free code.
- 5:** Learn to use object-oriented programming concepts such as classes and objects in Python to design efficient and scalable applications.

BCA Semester-II CLOs (Course Learning Outcomes)

After completing the course, the student-teacher will be able to

- 1. Web Development:** Ability to design and develop modern web applications using front-end and back-end technologies.
- 2. Problem Solving:** Solve complex issues related to dynamic content, server communication, and web application architecture.
- 3. Technical Proficiency:** Demonstrate expertise in using web technologies such as XHTML, XML, JavaScript, JSP, and AJAX.

4. Collaboration: Work collaboratively to develop full-stack web applications in team environments.

5. Research Skills: Investigate and adopt emerging web technologies for enhanced web development.

BCA-201: Business English

After completing the course, the student-teacher will be able to

1. **Develop Proficiency in Business Communication:** Understand and use proper grammar, vocabulary, and idiomatic expressions in both written and spoken business contexts.
2. **Enhance Writing Skills:** Ability to write clear and effective business communications such as emails, memos, proposals, job applications, and notices.
3. **Improve Reading Comprehension:** Ability to comprehend, interpret, and analyze advanced reading material including visual data representations (graphs, charts, etc.).
4. **Advance Speaking Skills:** Develop effective speaking and presentation skills in business settings through activities like debates, role plays, and impromptu speeches.
5. **Develop Listening Skills:** Improve listening comprehension by engaging in business-related conversations and exercises.

BCA-202: Mathematics (Numerical Techniques)

After completing the course, the student-teacher will be able to

1. **Error Analysis:** Identify and evaluate different types of errors in numerical calculations, including absolute, relative, and percentage errors.
2. **Solve Equations Using Numerical Methods:** Apply various numerical methods (Bisection, Newton-Raphson, etc.) to solve algebraic and transcendental equations.
3. **Interpolation and Differentiation:** Use interpolation techniques and numerical differentiation/integration methods to solve real-life problems.
4. **Numerical Solutions of Linear Systems:** Solve systems of linear equations using methods like Gauss-Jordan and Gauss-Seidel.
5. **Differential Equation Solutions:** Implement numerical methods such as Euler's method and Runge-Kutta for solving ordinary differential equations.

BCA-203: System Analysis & Design

After completing the course, the student-teacher will be able to

1. **System Development Life Cycle (SDLC):** Understand and apply the concepts of SDLC phases (Planning, Analysis, Design, Implementation, Maintenance).
2. **System Design and Modeling:** Develop the ability to design and model systems using tools like Data Flow Diagrams (DFD), Entity-Relationship (ER) diagrams, and Structured English.

3. **Documentation Skills:** Create and maintain proper system documentation including requirements specifications, design specifications, and user manuals.
4. **Feasibility Analysis:** Assess the technical, operational, economic, and legal feasibility of proposed systems.
5. **Effective Communication:** Improve communication skills necessary for interacting with stakeholders during the system analysis and design phases.

BCA-204: Problem Solving Techniques & Programming in C

After completing the course, the student-teacher will be able to

1. **Programming Fundamentals:** Understand the fundamentals of C programming, including data types, operators, expressions, and control structures.
2. **Algorithm Design and Problem Solving:** Design and implement algorithms for solving various problems using loops, conditional statements, and functions.
3. **Advanced Data Structures:** Work with advanced data structures like arrays, linked lists, stacks, queues, trees, and graphs.
4. **File Handling and Pointers:** Master file handling techniques, memory management, and pointer-based programming.
5. **C Preprocessor:** Understand and use C preprocessor commands such as `#define`, `#include`, and conditional compilation.

BCA-205: Operating System & UNIX

After completing the course, the student-teacher will be able to

1. **Understanding of Operating System Concepts:** Understand the basic concepts of operating systems, including CPU scheduling, memory management, and process management.
2. **Hands-on with UNIX/Linux Commands:** Master basic and advanced Linux/UNIX commands, shell scripting, and system administration.
3. **File Management:** Understand file systems and file management operations including file permissions, file creation, and file handling.
4. **System Security and Protection:** Learn the concepts of system security, threats, protection mechanisms, and how to secure UNIX-based systems.
5. **Practical Experience in UNIX:** Gain practical experience in using UNIX for system administration, managing processes, and handling I/O operations.

BCA-206: Lab (Programming in C)

1. **Hands-on Programming:** Develop practical programming skills by implementing solutions to problems using arrays, linked lists, stacks, queues, and trees.
2. **Advanced Data Structures:** Work with complex data structures and implement them in C programming.
3. **Algorithm Implementation:** Implement sorting and searching algorithms effectively in the programming environment.

4. **Debugging and Testing:** Learn to debug, test, and optimize C programs for correctness and efficiency.

BCA-207: Lab (Operating System & UNIX)

After completing the course, the student-teacher will be able to

1. **UNIX/Linux Commands:** Gain proficiency in using essential and advanced UNIX/Linux commands for file manipulation, system monitoring, and process management.
2. **Shell Scripting:** Learn to write and execute shell scripts for automating tasks and managing system resources.
3. **System Administration Tasks:** Perform basic system administration tasks, such as user management, file system management, and process monitoring.
4. **Security Configurations:** Practice securing a UNIX/Linux system by configuring file permissions, user rights, and system settings.

Course Learning Outcomes (CLOs) for Specific Courses

BCA-301: Object-Oriented Programming Using C++

After completing the course, the student-teacher will be able to

- 1: **OOP Fundamentals:** Understand the core concepts of object-oriented programming (OOP), such as classes, objects, inheritance, polymorphism, encapsulation, and abstraction.
- 2: **C++ Syntax and Programming:** Gain proficiency in writing C++ programs using object-oriented concepts, including function overloading, operator overloading, and dynamic memory allocation.

3: Inheritance and Polymorphism: Demonstrate the ability to design and implement inheritance hierarchies, emphasizing the use of virtual functions, dynamic binding, and abstract classes.

4: Memory Management in C++: Understand the importance of memory management in C++, and use the new and delete operators to dynamically allocate and deallocate memory.

5: Implementing Data Structures Using OOP: Design and implement common data structures (such as stacks, queues, linked lists) using object-oriented techniques and C++.

6: Advanced OOP Concepts: Understand and apply advanced C++ features such as templates, exception handling, file handling, and the use of friend functions.

BCA-302: Internet & Web Designing

After completing the course, the student-teacher will be able to

1: Web Fundamentals: Understand the basic concepts of the Internet, web technologies, and client-server architecture.

2: HTML & CSS: Develop static web pages using HTML and style them using CSS, with an emphasis on the layout, structure, and design of web content.

3: JavaScript for Web Development: Implement interactive web pages using JavaScript, including handling user inputs, form validation, and dynamic content updates.

4: Dynamic Web Pages with JSP: Create dynamic web pages using Java Server Pages (JSP), integrate server-side programming with front-end technologies, and understand the basic concepts of server-client interaction.

5: XML and Data Representation: Understand the use of XML for data representation and storage, and differentiate between XML and HTML in web-based applications.

6: Web Design Principles: Apply the principles of user-centered design and web accessibility to create responsive, accessible, and user-friendly websites.

BCA-303: Java Programming

After completing the course, the student-teacher will be able to

1: Java Fundamentals: Understand the basic concepts of Java, including its syntax, data types, control structures, and object-oriented features.

2: Object-Oriented Programming in Java: Implement object-oriented principles in Java, such as inheritance, polymorphism, and abstraction, to design modular and reusable code.

3: Exception Handling and Multithreading: Use exception handling to manage errors and exceptions in Java programs and implement multithreading for concurrent execution.

4: Java I/O: Gain proficiency in managing file input/output using Java's stream classes and understand the difference between byte and character streams.

5: GUI Development with Java; Design and implement graphical user interfaces (GUIs) using Java Swing or JavaFX for interactive applications.

BCA-304: Software Engineering

After completing the course, the student-teacher will be able to

1: Software Development Lifecycle: Understand the various phases of the software development lifecycle (SDLC), including planning, analysis, design, development, testing, and maintenance.

2: Requirements Analysis and Design: Analyze software requirements and design solutions using structured methods like Data Flow Diagrams (DFD) and Object-Oriented Design.

3: Software Testing: Apply different testing techniques such as unit testing, black-box testing, and white-box testing to ensure software quality and functionality.

4: Project Management: Understand software project estimation techniques, including cost and size estimation methods like COCOMO and LOC, and apply them in real-world projects.

5: Software Maintenance: Understand the challenges and methods of software maintenance, including corrective, adaptive, and perfective maintenance.

BCA-401: Relational Database Management Systems (RDBMS)

After completing the course, the student-teacher will be able to

1: Database Concepts: Understand the fundamentals of database systems, including data models, DBMS architecture, and the differences between file systems and DBMS.

2: Entity-Relationship Model: Design and implement database schemas using the Entity-Relationship (ER) model, mapping entities, attributes, and relationships.

3: SQL Queries: Write efficient SQL queries to retrieve, update, insert, and delete data, and use advanced SQL features like nested queries, joins, and triggers.

4: Database Normalization: Apply normalization techniques to reduce data redundancy and improve data integrity, using normalization forms like 1NF, 2NF, 3NF, and BCNF.

5: Transaction Management: Understand the concepts of database transactions, and ACID properties, and implement transaction management in SQL.

BCA-501: Windows Programming using VB .Net

After completing the course, the student-teacher will be able to

1. **Understand the .NET Framework:** Understand the basic concepts of the .NET framework, including its architecture, libraries, namespaces, and data types.
2. **VB.Net Programming Skills:** Develop proficiency in VB.Net, including data types, operators, decision statements, loops, arrays, and error handling.
3. **Object-Oriented Concepts:** Apply object-oriented principles such as abstraction, inheritance, polymorphism, and encapsulation in VB.Net.
4. **Windows Forms Application:** Design and develop basic Windows applications using VB.Net and implement event-driven programming concepts.
5. **Data Handling:** Integrate database functionality into VB.Net applications using ADO.Net to create, manipulate, and display data.
6. **Error Handling and Debugging:** Implement error handling mechanisms in VB.Net and debug Windows applications.

BCA-502: Graphics & Multimedia

After completing the course, the student-teacher will be able to

1. **Graphics Programming:** Understand the fundamentals of computer graphics and algorithms for 2D and 3D image rendering.
2. **Scan Conversion:** Implement scan conversion techniques for drawing basic shapes (lines, circles, ellipses) and understand the concepts of aliasing and anti-aliasing.
3. **Transformation Techniques:** Apply geometric transformations like translation, rotation, scaling, and reflection on objects in 2D and 3D space.
4. **Polygon Clipping & Filling:** Implement algorithms for polygon representation, clipping, and filling.
5. **3D Rendering & Shading:** Understand and implement 3D rendering techniques, including hidden surface removal and shading models.
6. **Multimedia Components:** Understand the components of multimedia systems and their applications in animation and interactive media.

BCA-503: Computer Network, Data Communication, and Client-Server Technology

After completing the course, the student-teacher will be able to

1. **Network Fundamentals:** Understand the fundamentals of data communication, transmission models, and OSI/TCP/IP models.

2. **Network Topologies & Architectures:** Analyze and implement different network topologies, classification, and architecture models (LAN, WAN, etc.).
3. **Data Transmission and Protocols:** Understand various data transmission methods (serial, parallel) and networking protocols (TCP/IP, HDLC, etc.).
4. **Network Security:** Implement basic network security strategies including data encryption, firewalls, and authentication.
5. **Distributed Systems:** Gain a deep understanding of client-server models, two-tier and three-tier architectures, and distributed computing environments.
6. **Networking Devices:** Learn about various networking devices (routers, switches, modems) and their roles in network infrastructure.

BCA-504: Business Accounting & ERP (Enterprise Resource Planning)

After completing the course, the student-teacher will be able to

1. **Accounting Principles:** Understand the basic principles of accounting and the process of preparing financial statements.
2. **Final Accounts Preparation:** Prepare final accounts, including income statements and balance sheets, with an emphasis on rectifying errors.
3. **ERP Implementation:** Learn about ERP systems, their components, and how they integrate various business functions such as finance, inventory, and human resources.
4. **Costing and Depreciation:** Implement and understand cost management and accounting for depreciation, provisions, and reserves in financial reports.

5. **Accounts from Incomplete Records:** Handle incomplete accounting records and prepare financial statements using self-balancing and other accounting methods.

BCA-601: Web Technology (Elective 1)

After completing the course, the student-teacher will be able to

1. **Web 2.0 & XHTML:** Understand the concepts of Web 2.0 and XHTML and apply them to create dynamic and interactive web applications.
2. **XML Basics:** Learn the basics of XML, including document structure, and schemas, and using XSL and CSS for data display.
3. **JavaScript and DOM:** Develop interactive web applications using JavaScript, the Document Object Model (DOM), and event handling.
4. **Server-Side Scripting with JSP:** Understand the basics of JavaServer Pages (JSP) and develop server-side applications.
5. **Web Development Frameworks:** Learn how to build and deploy web applications using modern frameworks and technologies, such as JDBC and JSP.

BCA-602: Concept of Data Mining and Data Warehousing (Elective 2)

After completing the course, the student-teacher will be able to

1. **Data Mining Concepts:** Understand the fundamentals of data mining, including data mining tasks, algorithms, and applications.
2. **Data Warehousing:** Gain knowledge of data warehousing concepts, including data cube computation and multi-dimensional models.

3. **Mining Techniques:** Apply data mining techniques such as association rule mining, classification, prediction, and clustering.
4. **Web and Spatial Data Mining:** Understand web content mining, spatial data mining, and temporal mining techniques.
5. **Data Integration and Preprocessing:** Perform data cleaning, integration, transformation, and reduction for mining purposes.

BCA-603: E-Commerce

After completing the course, the student-teacher will be able to

1. **E-Commerce Concepts:** Understand the various models and concepts of e-commerce, including B2B, B2C, and emerging business models.
2. **E-Commerce Infrastructure:** Learn the underlying technology and infrastructure required to build and operate e-commerce websites.
3. **Security in E-Commerce:** Implement security strategies for protecting data and ensuring secure transactions in an e-commerce environment.
4. **E-Commerce Payment Systems:** Understand various online payment systems and technologies used in B2C and B2B environments.
5. **Social and Ethical Issues:** Analyze the social, ethical, and legal issues associated

BCA-501: Windows Programming using VB.Net

After completing the course, the student-teacher will be able to

1. Understand the fundamentals of .NET technology and the .NET Framework Class Library.

2. Learn and apply VB.Net language constructs including variables, operators, decision-making statements, loops, and arrays.
3. Demonstrate object-oriented programming (OOP) concepts such as inheritance, polymorphism, encapsulation, and abstraction using VB.Net.
4. Develop Windows Forms applications using VB.Net with proper event handling and GUI components.
5. Integrate data access techniques using ADO.Net to connect and interact with databases.
6. Build and troubleshoot Single Document Interface (SDI) and Multiple Document Interface (MDI) applications.
7. Implement error handling and debugging techniques in Windows Forms applications.

BCA-502: Graphics & Multimedia

After completing the course, the student-teacher will be able to

1. Understand the fundamental concepts of computer graphics, including picture analysis and scan conversion.
2. Gain hands-on experience with 2D and 3D coordinate systems, transformations, and polygon representations.
3. Apply algorithms for line, circle, and polygon clipping, as well as hidden line and surface removal techniques.
4. Learn about curves and splines, including Bezier and BSpline curves.

5. Implement basic rendering techniques such as shading, ray tracing, and illumination models.
6. Understand the role of multimedia components and apply multimedia technologies for animation and interactive graphics.
7. Gain knowledge of multimedia file formats and storage/retrieval techniques for multimedia content.

BCA-503: Computer Network, Data Communication, and Client-Server Technology

After completing the course, the student-teacher will be able to

1. Understand the fundamental concepts of data communication, including transmission methods, signal encoding, and data compression.
2. Analyze different types of networks and network topologies, with a focus on the OSI model and TCP/IP protocol suite.
3. Demonstrate practical knowledge of data link control, error detection and correction techniques, and network security.
4. Understand and apply the concepts of distributed systems and client-server architecture, including various models (2-tier, 3-tier, etc.).
5. Implement networking protocols and applications like FTP, HTTP, Telnet, and SMTP.
6. Design and develop client-server applications using modern tools and frameworks.

BCA-504: Business Accounting & ERP

After completing the course, the student-teacher will be able to

1. Understand the basic principles and processes of accounting, including cash book, bank reconciliation, and final accounts.
2. Learn to apply accounting concepts in various business scenarios such as joint ventures, consignment accounts, and incomplete records.
3. Develop an understanding of ERP systems and their integration with business processes.
4. Demonstrate the ability to manage financial statements, depreciation, provisions, and reserves.
5. Gain knowledge of how ERP systems streamline business operations and integrate financial and operational data.

BCA-601: Web Technology (Elective 1)

After completing the course, the student-teacher will be able to

1. Understand the basics of Web 2.0 technologies and the differences between HTML and XHTML.
2. Gain proficiency in creating and managing XML documents, including DTDs and XML schemas.
3. Master JavaScript programming for dynamic web development, including DOM manipulation and event handling.
4. Develop and deploy server-side applications using JSP, with an understanding of the JSP lifecycle and session management.
5. Implement AJAX for creating dynamic and interactive web applications.

6. Understand various web technologies such as HTTP, and server-side scripting with Web containers like Tomcat.

BCA-602: Concept of Data Mining and Data Warehousing (Elective 2)

After completing the course, the student-teacher will be able to

1. Understand the fundamental concepts of data mining and its various functionalities.
2. Analyze the differences between operational databases and data warehouses, including the multi-dimensional data model.
3. Implement data mining tasks such as data cleaning, data integration, and transformation.
4. Apply data mining algorithms like association rule mining, classification, clustering, and outlier analysis.
5. Explore web mining, temporal mining, and spatial data mining concepts and their practical applications.

BCA-603: E-Commerce

After completing the course, the student-teacher will be able to

1. Understand the core concepts and business models of e-commerce, including B2C, B2B, and emerging models.
2. Learn to design and build secure and functional e-commerce websites, including payment systems and security protocols.
3. Gain knowledge of the ethical, social, and political implications of e-commerce.

4. Implement e-commerce solutions using web-based technologies, including payment gateways and secure transactions.
5. Analyze and apply different e-commerce strategies to support business growth and online transactions.

Bachelor of Business Administration

Programme Learning Outcomes (PLOs)

After completing the BBA Programme students will be able to:

- Develop managerial, behavioral, and strategic knowledge and skills.
- Understand and analyze the application of management principles in solving business problems.
- Acquire relevant IT knowledge and skills to analyze business data and prepare business reports.
- Demonstrate English proficiency for effective business communication.
- Attain the ability to lead a team and achieve individual, group, or organizational goals.
- Develop appropriate entrepreneurial skills and competencies to address business challenges innovatively.
- Perceive and solve business problems ethically and responsibly.
- Cultivate lifelong learning skills for personal and professional development.

Bachelor of Business Administration

Course Learning Outcomes (CLOs)

BBA 1SEM

PRINCIPLES & PRACTICES OF MANAGEMENT

After completing the course, the student-teacher will be able to

- Develop a solid understanding of management theories, principles, and practices, including planning, organizing, leading, and controlling within an organization.
- Analyze leadership styles and decision-making techniques to effectively manage teams and achieve organizational goals.
- Understand the importance of strategic planning and apply various tools and frameworks to align organizational activities with long-term objectives

MICROECONOMICS

After completing the course, the student-teacher will be able to

- Develop a thorough understanding of basic microeconomic concepts such as demand, supply, elasticity, and market equilibrium.
- Learn how consumers make decisions to allocate their limited resources among various goods and services based on utility maximization principles.
- Use microeconomic theories and tools to analyze real-world issues such as pricing strategies, resource allocation, and market failure.

MACROECONOMICS

After completing the course, the student-teacher will be able to

- Gain a comprehensive understanding of macroeconomic principles such as GDP, national income, inflation, unemployment, and economic growth.
- Learn how to interpret and evaluate macroeconomic indicators to assess the health and performance of an economy.
- Use macroeconomic models to address issues like economic instability, recession, inflation control, and sustainable economic development.

INFORMATION TECHNOLOGY IN MANAGEMENT-1 (OFFICE/PRODUCTIVITY SUITES)

After completing the course, the student-teacher will be able to

- Gain foundational knowledge of how information technology supports decision-making, communication, and operations in a business environment.
- Learn to use office productivity suites such as Microsoft Office (Word, Excel, PowerPoint) or Google Workspace to create, edit, and manage professional documents, spreadsheets, and presentations.
- Demonstrate the ability to use productivity tools to solve practical business problems, enhance efficiency, and support managerial tasks.

MARKETING MANAGEMENT-1(MARKETING & SALES)

After completing the course, the student-teacher will be able to

- Gain a foundational understanding of marketing principles, including market segmentation, targeting, positioning, and the marketing mix (4Ps).
- Learn how to study and interpret consumer behavior, preferences, and purchasing patterns to develop effective marketing strategies.

- Understand the sales process, including prospecting, relationship building, and closing deals, to improve sales performance and customer retention.

COMMUNICATIVE ENGLISH

After completing the course, the student-teacher will be able to

- Develop effective speaking skills for diverse settings, including academic, professional, and social contexts, with a focus on clarity, fluency, and confidence.
- Improve active listening skills and comprehension through exposure to various spoken English materials, such as lectures, discussions, and presentations.
- Learn to write clear, coherent, and structured documents, including essays, reports, emails, and business correspondence, using appropriate tone and style.
- Expand vocabulary and understand advanced grammar concepts to improve both written and spoken communication accuracy.
- Develop an understanding of how to communicate effectively with diverse audiences, recognizing cultural nuances and adapting language for better interaction

BBA 2SEM

BUSINESS ORGANIZATION & ENVIRONMENT

After completing the course, the student-teacher will be able to

- Gain knowledge of different types of business organizations (e.g., sole proprietorship, partnership, corporation) and their roles in the economy.
- Understand how external factors such as political, economic, social, technological, environmental, and legal (PESTEL) forces influence business operations and decision-making.
- Develop an awareness of ethical challenges businesses face in a dynamic environment and the importance of corporate social responsibility (CSR)

FINANCIAL MANAGEMENT-1 (FINANCIAL ACCOUNTING)

After completing the course, the student-teacher will be able to

- Gain a solid foundation in financial accounting concepts, including the preparation and interpretation of financial statements like the balance sheet, income statement, and cash flow statement.
- Develop the skills to interpret and analyze financial statements to assess the financial health and performance of a business.
- Use financial accounting data to make informed business decisions related to investments, budgeting, and cost management

HUMAN RESOURCE, MANAGEMENT-1 (ORGANIZATIONAL BEHAVIOR)

After completing the course, the student-teacher will be able to

- Gain knowledge of core theories and models in organizational behavior, including motivation, leadership, and group dynamics, and understand their application in managing people within organizations.

- Understand motivational theories (e.g., Maslow's Hierarchy of Needs, Herzberg's Two-Factor Theory) and leadership styles (e.g., transformational, transactional) and apply them to improve employee performance and engagement.
- Link organizational behavior concepts to HR functions, such as recruitment, training, performance appraisal, and employee relations, to foster a positive work environment.

BUSINESS MATHEMATICS & STATISTICS-1(MATHEMATICAL ECONOMICS)

After completing the course, the student-teacher will be able to

- Gain knowledge of fundamental mathematical techniques, including algebra, calculus, and matrix operations, used in economic theory and applications.
- Use differential and integral calculus to analyze and optimize economic functions, such as marginal cost, revenue, and profit, in decision-making processes.
- Interpret mathematical and statistical results to make informed economic decisions, and use these insights to evaluate economic policies or business strategies.

INFORMATION TECHNOLOGY IN MANAGEMENT-2(MANAGEMENT INFORMATION SYSTEM)

After completing the course, the student-teacher will be able to

- Learn to identify and evaluate the information needs of different levels of management (operational, tactical, and strategic) and design appropriate information systems to meet these needs.
- Understand how information systems and technologies (such as databases, ERP systems, and cloud computing) are applied to solve business problems and support decision-making processes
- Explore the ethical, social, and legal considerations surrounding information systems, including data privacy, cybersecurity, intellectual property, and the regulatory environment.

BUSINESS ENGLISH

After completing the course, the student-teacher will be able to

- Learn to write clear, concise, and well-structured business documents, including emails, reports, memos, proposals, and business letters, with proper tone and format.
- Improve verbal communication by practicing presentations, meetings, negotiations, and professional discussions, using effective language and persuasive techniques.
- Build a strong command of business-specific vocabulary and terminology, allowing for better understanding and participation in business-related conversations and tasks.
- Strengthen grammar, punctuation, and sentence structure in business communication to ensure professionalism and clarity in all written and spoken forms.

- Enhance listening skills by interpreting and understanding business-related audio materials, such as podcasts, lectures, and interviews, and responding appropriately in business contexts.

BBA 3SEM

MARKETING MANAGEMENT-2 (CONSUMER BEHAVIOR)

After completing the course, the student-teacher will be able to

- Gain knowledge of the psychological, social, cultural, and personal factors that impact consumer decisions and purchasing behavior.
- Learn to identify and evaluate the stages of the consumer buying decision process, from problem recognition to post-purchase evaluation.
- Develop the ability to predict consumer behavior in various market conditions and contexts, such as economic downturns, technological changes, or cultural shifts.

FINANCIAL MANAGEMENT-2(MANAGERIAL ACCOUNTING)

After completing the course, the student-teacher will be able to

- Gain a comprehensive understanding of the principles and concepts of managerial accounting, including cost classification, cost behavior, and the importance of managerial accounting in decision-making.
- Learn to apply various costing techniques such as job-order costing, process costing, and activity-based costing to allocate costs effectively and aid managerial decisions.

- Analyze how financial decisions such as capital investments, product pricing, and resource allocation affect the overall operations and profitability of the organization.

HUMAN RESOURCE MANAGEMENT-2

After completing the course, the student-teacher will be able to

- Gain an in-depth understanding of advanced concepts in Human Resource Management, such as strategic HRM, talent management, and workforce planning.
- Understand the importance of employee training and development, and learn how to create and implement training programs that enhance employee performance and career growth.
- Learn the principles and practices of change management, and understand how to guide organizations through transitions while maintaining employee engagement and productivity.

BUSINESS MATHEMATICS & STATISTICS-2(MATHEMATICAL STATISTICS)

After completing the course, the student-teacher will be able to

- Gain a strong understanding of basic statistical concepts, including probability theory, random variables, probability distributions, and statistical inference.

- Develop the ability to perform hypothesis testing for population parameters using statistical tests (e.g., t-tests, chi-square tests) to draw conclusions about business data.
- Understand how to interpret statistical results and apply them in business contexts, making informed decisions based on data-driven insights.

CORPORATE COMMUNICATION

After completing the course, the student-teacher will be able to

- Gain a comprehensive understanding of the importance of communication in organizations, focusing on internal and external communication strategies that contribute to a company's image and reputation.
- Learn to communicate effectively through various business communication channels such as emails, reports, presentations, and memos, ensuring clarity, professionalism, and coherence.
- Learn how to assess the effectiveness of corporate communication strategies and recommend improvements based on stakeholder feedback and organizational goals.

BUSINESS TAXATION

After completing the course, the student-teacher will be able to

- Gain a solid foundation in the principles of taxation, including the role of taxes in business operations, government revenue, and economic growth.

- Understand various business taxes such as income tax, sales tax, value-added tax (VAT), excise tax, and property tax, and their implications for business operations and compliance.
- Gain knowledge of international taxation principles, including transfer pricing, double taxation treaties, and tax implications for multinational companies operating in different jurisdictions.

PSYCHOLOGY

After completing the course, the student-teacher will be able to

- Gain an understanding of the core concepts and theories in psychology, including human development, cognition, behavior, emotion, and social interaction.
- Learn how biological factors, including brain structure, neurotransmitters, and hormones, influence human behavior, emotions, and mental health.
- Develop the ability to apply various research methods in psychology, including experimental design, surveys, case studies, and observational techniques, to collect and analyze data.
- Study cognitive processes such as perception, memory, learning, and problem-solving, and understand how emotions influence behavior and decision-making.
- Enhance skills in understanding and improving interpersonal relationships through the application of psychological principles, including effective communication, empathy, and conflict resolution.

BBA 4SEM

Strategic Management

After completing the course, the student-teacher will be able to

- Gain a comprehensive understanding of the strategic management process, including strategy formulation, implementation, and evaluation, and how these processes contribute to organizational success.
- Learn to analyze the external environment using tools such as PESTEL and Porter's Five Forces, and assess the internal environment through SWOT analysis to identify organizational strengths, weaknesses, opportunities, and threats.
- Use strategic management tools, such as the Balanced Scorecard, BCG Matrix, and Value Chain Analysis, to solve real-world business problems and create value for organizations.

PRODUCTION AND OPERATIONS MANAGEMENT

After completing the course, the student-teacher will be able to

- Gain a solid foundation in the core principles of production and operations management, including product design, process design, capacity planning, and inventory management
- Learn how to analyze production processes and apply techniques to optimize efficiency, reduce costs, and improve product quality using tools like process mapping, flow analysis, and lean manufacturing principles.

- Examine the role of technology in enhancing production and operations, such as automation, AI, and robotics, and understand how technological innovations can improve operational efficiency and competitiveness.

OPERATIONS RESEARCH AND LOGISTICS

After completing the course, the student-teacher will be able to

- Gain a solid understanding of the core concepts of operations research, including optimization techniques, linear programming, and decision-making models that are used to solve complex business problems.
- Understand and apply decision analysis tools like decision trees, game theory, and sensitivity analysis to evaluate various decision-making scenarios and determine optimal business strategies.
- Learn about lean and agile logistics strategies, and apply them to improve operational efficiency, reduce waste, and increase responsiveness to customer needs in dynamic business environments.

PROJECT & EVENT MANAGEMENT

After completing the course, the student-teacher will be able to

Gain a comprehensive understanding of the key concepts, methodologies, and frameworks used in managing projects and events, including project life cycles, event planning processes, and stakeholder management

- Understand and use project management tools like Gantt charts, Critical Path Method (CPM), Work Breakdown Structures (WBS), and project management software (e.g., MS Project) to plan, track, and control projects

- Learn the logistics involved in event management, including venue selection, vendor management, staffing, budgeting, permits, and the coordination of various event components to ensure smooth execution.
- Develop the ability to evaluate the success of completed projects and events by assessing key performance indicators, gathering feedback from stakeholders, and implementing lessons learned for future improvements.

SOCIAL & MARKETING RESEARCH METHODS

After completing the course, the student-teacher will be able to

- Gain an in-depth understanding of the key concepts, objectives, and types of research used in social and marketing contexts, including exploratory, descriptive, and causal research
- Learn how to design appropriate research methodologies by selecting suitable research designs (qualitative and quantitative), sampling techniques, and data collection methods (e.g., surveys, interviews, focus groups)
- Understand and apply various marketing research methods, including customer segmentation, brand perception studies, and product/service satisfaction surveys, to gain valuable insights into consumer behavior and market trends.
- Understand how to translate research findings into strategic marketing decisions, including product development, market positioning, advertising, and consumer engagement strategies.

ENTREPRENEURSHIP DEVELOPMENT PROGRAMME

After completing the course, the student-teacher will be able to

- Gain a clear understanding of the principles and processes involved in entrepreneurship, including the role of entrepreneurs in economic development, innovation, and job creation.
- Learn how to identify business opportunities, generate innovative ideas, and assess market potential, ensuring that new ventures address real-world problems and consumer needs.
- Understand the importance of building a professional network, finding mentors, and establishing connections with other entrepreneurs, investors, and industry experts to support business success.

BUSINESS ETHICS, CORPORATE GOVERNANCE, AND SOCIAL WORK

After completing the course, the student-teacher will be able to

- Gain a thorough understanding of business ethics, including ethical decision-making, moral principles, and how ethical considerations influence business practices and stakeholder relationships.
- Develop the ability to identify and analyze ethical dilemmas in various business contexts, such as conflicts of interest, corporate social responsibility (CSR), and environmental sustainability, and propose ethical solutions.

BBA 5SEM

RETAIL MANAGEMENT

After completing the course, the student-teacher will be able to

- Gain a comprehensive understanding of the retail industry, including its structure, types of retail formats, and the various roles and functions within retail management
- Learn how to study consumer behavior patterns and preferences, and how to apply this knowledge to create effective retail strategies that enhance customer satisfaction and drive sales.
- Study emerging trends in the retail industry, such as omnichannel retailing, sustainability, and changing consumer preferences, and understand how to adapt to these trends to stay competitive in the market.

INDIAN FINANCIAL SYSTEM

After completing the course, the student-teacher will be able to

- Gain a comprehensive understanding of the components and structure of the Indian financial system, including financial markets, institutions, services, and regulatory bodies like the Reserve Bank of India (RBI) and the Securities and Exchange Board of India (SEBI).
- Examine the challenges faced by the Indian financial system, such as non-performing assets (NPAs), financial inclusion, cybersecurity, and the impact of global economic factors on the domestic financial system
- Gain knowledge of the recent reforms in the Indian financial sector, such as digital banking, GST, and financial inclusion initiatives, and understand how these reforms aim to strengthen the financial system and enhance economic growth.

SECURITY ANALYSIS & PORTFOLIO MANAGEMENT

After completing the course, the student-teacher will be able to

- Gain a solid understanding of security analysis, including the methods and tools used to evaluate various types of securities (stocks, bonds, etc.) to assess their investment potential.
- Learn how to analyze different securities such as equity shares, fixed income securities (bonds), derivatives, and alternative investments, understanding their characteristics, risks, and returns.
- Learn how to assess and manage the risk and return of a portfolio using concepts like the efficient frontier, CAPM (Capital Asset Pricing Model), and modern portfolio theory (MPT), and optimize portfolio composition.

E-COMMERCE

After completing the course, the student-teacher will be able to

- Learn about the technical infrastructure required for e-commerce, including web development, hosting, payment gateways, cybersecurity, and the software and technologies that facilitate online transactions.
- Explore different e-commerce strategies such as digital marketing, social media marketing, search engine optimization (SEO), content marketing, and customer relationship management (CRM) to attract and retain customers.
- Understand the emerging trends in e-commerce, such as artificial intelligence (AI), chatbots, augmented reality (AR), and the Internet of Things (IoT), and their potential to reshape online business practices.

OJT[ON-THE –JOB-TRAINING]

After completing the course, the student-teacher will be able to

[4 WEEKS INTERNSHIP IN AN INDUSTRY] Apply the concepts and skills learned in the classroom to real-world business challenges and scenarios, bridging the gap between theoretical knowledge and practical application in an industry setting.

- Cultivate professional skills such as time management, teamwork, communication, problem-solving, and organizational behavior, while adhering to workplace standards, ethics, and practices.
- Gain firsthand experience by actively participating in daily operations, tasks, and decision-making processes within the industry, thereby understanding the functioning and dynamics of the organization.
- Learn how to use industry-specific software, tools, and technologies essential for the job, enhancing technical skills and staying up-to-date with the tools used in the professional environment.
- Improve verbal and written communication skills by interacting with colleagues, clients, and supervisors, while learning how to handle business correspondence, presentations, and meetings effectively.
- Strengthen the ability to identify challenges or issues in the workplace and use critical thinking and analytical skills to devise effective solutions and contribute to the organization's success

- Receive constructive feedback from mentors and supervisors, enabling self-reflection on strengths and areas for improvement, which will help guide professional growth and development.

BBA 6SEM

SERVICES MARKETING

After completing the course, the student-teacher will be able to

- Gain a clear understanding of the nature of services, the differences between goods and services, and the unique challenges that arise in marketing intangible products to customers.
- Understand and apply the 7 Ps of services marketing—Product, Price, Place, Promotion, People, Process, and Physical Evidence—and how they are utilized to create effective marketing strategies for service businesses.
- Study the importance of service quality and its impact on customer satisfaction, loyalty, and retention, and learn tools such as SERVQUAL and other service quality measurement models to assess and improve service delivery.

INTERNATIONAL FINANCE

After completing the course, the student-teacher will be able to

- Gain a comprehensive understanding of international financial markets, institutions, and systems, including the key principles and mechanisms that govern cross-border financial transactions and investments

- Learn about the different types of exchange rate systems (fixed, floating, and pegged), and how exchange rates are determined in the foreign exchange market, including the factors that influence currency fluctuations.
- Learn about the financial strategies employed by MNCs to manage foreign operations, including transfer pricing, capital structure, and financing decisions in an international context.

RISK MANAGEMENT

After completing the course, the student-teacher will be able to

- Gain a solid understanding of the concept of risk and risk management, including how businesses identify, assess, and manage risks to minimize their impact on organizational goals and operations.
- Learn to identify various types of risks that businesses face, including financial, operational, strategic, market, credit, and legal risks, and understand their potential effects on an organization
- Study global risks such as economic downturns, geopolitical tensions, pandemics, and environmental disasters, and learn how organizations can develop strategies to manage systemic risks that affect multiple industries and markets.

BUSINESS LAW AND INDUSTRIAL RELATIONS

After completing the course, the student-teacher will be able to

- Gain a comprehensive understanding of the legal framework that governs business operations, including contracts, torts, company law, intellectual

property, and consumer protection laws, and their relevance in the business environment.

- Learn about the various laws and regulations affecting businesses, including the legal rights and responsibilities of businesses and individuals in areas such as taxation, employment, competition, and environmental laws.
- Analyze how employment laws impact organizational policies and practices in hiring, training, promotion, compensation, and termination, while ensuring compliance with anti-discrimination and anti-harassment laws.

MANAGEMENT THESIS

[BASED ON 2 WEEK INTERNSHIP IN THE SERVICES INDUSTRY]

After completing the course, the student-teacher will be able to

- Demonstrate the ability to apply theoretical concepts and frameworks learned throughout the academic program to real-world challenges encountered during the internship in the services industry.
- Develop research skills by gathering, analyzing, and interpreting data from the internship experience, applying appropriate research methodologies to address industry-specific issues, and contributing to organizational improvement.
- Analyze current business practices, operations, and strategies within the services industry, identifying strengths, weaknesses, opportunities, and threats, and proposing solutions for improvement based on research findings.

- Showcase professionalism in all aspects of the internship and thesis work, including time management, ethical research practices, confidentiality, and respect for the organization's policies and norms.
- Utilize feedback received from industry mentors and supervisors to refine the thesis, ensuring that real-world insights and industry perspectives are incorporated into the analysis and recommendations.
- Provide valuable insights and recommendations through the thesis that can help improve business operations, customer service, or strategic decision-making within the services organization where the internship was conducted.

Program Learning Outcomes (PLOs) for M.A. in Education

Upon completing the M.A. in Education program, students will:

1. Develop a Deep Understanding of Educational Theories
 - Acquire knowledge of philosophical, psychological, sociological, and historical perspectives in education.
 - Analyze and apply educational theories in diverse educational contexts.
2. Apply Psychological and Sociological Concepts in Education
 - Understand and apply principles of educational psychology to address developmental needs, behavioral issues, and learning styles.
 - Demonstrate a deep understanding of social equity, diversity, and gender-related issues in educational practices.
3. Enhance Curriculum and Pedagogical Knowledge

- Design, develop, and evaluate curricula with a focus on teaching strategies, content, and assessment methods.
- Analyze various pedagogical approaches to improve teaching and learning outcomes.

4. Demonstrate Competence in Teaching Methodologies

- Acquire specialized skills in teaching subjects such as languages, sciences, and social studies.
- Use effective instructional strategies, resources, and assessments for diverse classrooms.

5. Develop Counseling and Guidance Skills

- Understand and implement counseling techniques to address academic, emotional, and behavioral challenges.
- Foster a supportive learning environment for all students.

6. Integrate Technology in Education

- Understand and apply ICT principles to enhance teaching, learning, and communication in educational settings.

7. Conduct Educational Research

- Design, conduct, and analyze educational research using qualitative and quantitative methods.
- Address current educational challenges and contribute to the knowledge base of the field.

8. Promote Inclusive and Equitable Education

- Identify and address issues of inclusion, gender equality, and diversity in the educational system.
- Ensure equitable access to quality education for all students.

9. Foster Professional Ethics and Values

- Cultivate professional ethics, values, and attitudes necessary for effective teaching and leadership.
- Contribute positively to the development of the education system.

10. Engage in Comparative Education Practices

- Examine and compare educational systems, policies, and practices from a global perspective.
- Apply insights gained to enhance local educational contexts.

11. Understand the Role of Education in Societal Development

- Explore how education contributes to social, economic, and political development at local, national, and global levels.

12. Promote Continuous Professional Development

- Understand the importance of lifelong learning and professional development.
- Stay updated with emerging trends and practices in education.

MA in Education COURSE LEARNING OUTCOMES

After studying the various papers, the student-teacher will be able to achieve the following knowledge –

CC-1: Philosophical Perspectives of Education

On completion of the scores, the student will be able

- Recognize and define the concept of philosophy to enable the students to understand the philosophical origin of educational theories and practices
- To enable the student to develop a physical Outlook towards educational problems
- To understand the nature and function of students and philosophy and their relationship
- To analyze the concept and process of getting knowledge and its related phenomena
- To recognize and define the concept of philosophy and modern philosophy
- Contribution of various Indian and distance schools of philosophy
- Understand the contribution of Indian and Western philosophers to the field of education

CC-2 Psychological Perspectives of Education

On completion of this course, the student will be able

- To enable students to understand the nature concept and principle of educational psychology as an applied discipline with its scientific methods and approaches
- To acquaint learners with the nature and processes of development and assessment of various straight and abilities appreciate common characteristics educational need and behavioural problems of learner at successive stage of development from childhood to adolescence and adulthood
- To help student understand the implication of various psychological theories for education
- To familiarize student with the structure functioning and development of personality and their implications for education
- To make them know and appreciate the need and value of organising different educational programs to suit the needs and demands of special children
- Understand emotional behaviour and balances that emotions
- You understand the process of adjustment and stress management

CC-3 Curriculum Development

- Understand the underlying basis principles and entry cases inherent in the structure of a sound curriculum and the various forces and considerations involved which must be taken into account when developing a curriculum
- To understand the foundation of curriculum development
- to be acquainted with various curriculum types and their design processes and constructions
- to know about curricular content curriculum implementation and process of curriculum evaluation
- to know and understand issues trends and research conducted in India in the area of curriculum and curriculum development
- to design and develop with given objective in a particular field of formal studies
- to understand the concept and principle of curriculum development
- to understand and appreciate curriculum as a means of development of the individual
- appreciate the need for continuous curriculum reconstruction
- To analyze the teaching-learning process and develop course content on the subject of teaching

CC-4 Guidance and Counselling

Upon completion of this course, the students will be able

- To develop an understanding of meaning, need, principles, and types of guidance
- To get acquainted with the tools and techniques of appraisal of an individual.
- To develop an understanding of meaning characteristics and types of counseling.
- To get acquainted with the process and techniques of Counseling and Guidance.
- To get acquainted with the theories of counseling.
- To develop an understanding about Group Guidance-concepts and techniques.
- To explain the qualities and role of a school counselor.

CC-5 Sociological perspective of education

Upon completion of this course, the students will be able

- To develop an understanding of meaning, need, principles, and types of guidance
- To get acquainted with the tools and techniques of appraisal of an individual.
- To develop an understanding of the meaning characteristics and types of counseling.

- To get acquainted with the process and techniques of Counseling and Guidance.
- To get acquainted with the theories of counseling.
- To develop an understanding of Group guidance concepts and techniques.
- To explain the qualities and role of a school counselor.

CC-6 Historical, Political, and Economic Perspectives of Education

Upon completion of this course, the students will be able

- To develop an understanding of meaning, need, principles, and types of guidance
- To get acquainted with the tools and techniques of appraisal of an individual.
- To develop an understanding of the meaning characteristics and types of counseling.
- To get acquainted with the process and techniques of Counseling and Guidance.
- To get acquainted with the theories of counseling.
- To develop an understanding of Group guidance concepts and techniques.
- To explain the qualities and role of a school counselor.

CC-7 Contemporary Concern in Education

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

- Describe the prevailing social inequities, diversities, and marginalization in India and their implication for education.
- State the relevant Constitutional provisions, policy recommendations and the provisions in different acts relating to education specifically to school education.

- Explain the various concerns and issues of school education.
- State the roles of teachers in addressing the concerns and issues.
- Develop a set of professional values required to address the issues and concerns through curricular and co-curricular practices

CC-8 Pedagogy of School Subject

Group A: Pedagogy of Language Subject (English)

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

- Analyze the issues relating to the importance and place of English in the school curriculum.
- Acquire skills in English.
- Know the aims and objectives of learning English.
- Use various methods, approaches, and strategies for teaching English
- Transact various types of lesson plans covering all aspects of the English language.
- Develop test items to assess learning in English.
- Provide feedback enrichment materials.
- Use the understanding of phonetics to facilitate students' speaking in English
- Plan appropriate pedagogical treatment of the prescribed contents for effective classroom transaction

Group B Pedagogy of Language Subject (Hindi)

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

- Analyze the issues relating to the importance and place of Hindi in school curriculum.

- Acquire skills in Hindi.
- Know the aims and objectives of learning Hindi.
- Use various methods, approaches, and strategies for teaching Hindi
- Transact various types of lesson plans covering all aspects of the Hindi language.
- Develop test items to assess learning in Hindi.
- Provide feedback enrichment materials.
- Use the understanding of phonetics to facilitate students' speaking in Hindi.
- Plan appropriate pedagogical treatment of the prescribed contents for effective classroom transaction

Group (C): PEDAGOGY OF HISTORY

- Upon completion of this course, the students will be able to
- State the meaning, scope, and importance of History.
- Specify the skills and competencies to formulate specific learning outcomes for different History lessons,
- Identify the different methods and skills of teaching History.
- Science for transacting the contents effectively.
- Explain the importance of time sense in affecting the teaching of History.
- Prepare Unit Plans and Lesson Plans in History.
- Develop diagnostic achievement tests, administer them and analyze the results for providing feedback.

Group D Pedagogy of Geography

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

- State the importance of teaching and learning Geography at the secondary level.
- Use appropriate teaching methods and strategies while facilitating learning of Geography.
- Develop lesson plans for effective teaching and learning of Geography.
- Prepare, collect, and procure resource materials including suitable teaching aids, and use them effectively in the classroom.
- Develop appropriate tools and techniques for comprehensive assessment of learning in Geography.
- State the concepts in Geography included in the secondary school curriculum and make the pedagogical analysis of those concepts.

Group E Pedagogy of Physical Science

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

- State the nature and importance of physical science and its relevance in secondary school curriculum.
- Use various methods and approaches to teaching Physical Science suitable for secondary school classes.
- Plan lessons in physical science for effective classroom transactions.
- Develop and collect activities and resource materials for their use in enhancing the quality of learning of Physical Science at the secondary level.
- Use appropriate tools and techniques for continuous and comprehensive assessment of learning in Physical Science.
- State the concepts in Physical Science included in the secondary school curriculum and make pedagogical

Group (f) Pedagogy of Biological Science

- State the nature and importance of Biological science and its relevance in secondary school curriculum.
- Use various methods and approaches to teaching Biological Science suitable for secondary school classes.
- Plan lessons in Biological science for effective classroom transactions.
- Develop and collect activities and resource materials for learning of Biological Science at the secondary level. for their use in enhancing the quality
- Use appropriate tools and techniques for continuous and comprehensive assessment learning in Biological Science. of
- State the concepts in Biological Science included in the secondary school curriculum and make the pedagogical analysis of those concepts

Group (G) PEDAGOGY OF MATHEMATICS

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

- Narrate the evolution and nature of Mathematics and its importance in the school curriculum in the context of the recent curricular reforms.
- Use various methods and approaches of teaching and learning mathematics especially
- suitable for secondary school classes. Plan lessons in Mathematics using traditional and constructivist approaches for effective classroom transactions.
- Develop and collect activities and resource materials for their use in enhancing the quality of learning Mathematics at the secondary level.
- Conduct continuous and comprehensive assessments to enhance the quality of mathematics learning.

- Explain the concepts in Mathematics included in the secondary school curriculum and make the pedagogical analysis of those concepts

GROUP (H): PEDAGOGY OF COMMERCE

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

- Narrate the importance of commerce in the school curriculum in the context of the recent curricular reforms.
- Use various methods and approaches of teaching and learning mathematics especially suitable for the secondary school classes
- Plan lessons in commerce using traditional and constructivist approaches for effective classroom transactions.
- Develop and collect activities and resource materials for their use in enhancing the quality of learning commerce at the secondary level.
- Conduct continuous and comprehensive assessments to enhance the quality of commerce learning.
- Explain the concepts in commerce included in the secondary school curriculum and make the pedagogical analysis of those concepts

CC-9: GENDER, SCHOOL AND SOCIETY

Upon completion of this course, the students will be able

1. To state the key concepts related to gender issues.
2. To identify key gender issues in school, curriculum, textbooks, and pedagogical processes.
3. To understand the ways to address gender issues in and out of school context.
3. To know about the Paradigm shift from women's studies to gender studies.

5. To understand some landmarks from social reform movements.
6. To state the role of family, school, community, and media in addressing the issues.
7. To understand the Gender in text and pedagogy.
8. To understand Gender inequality in school context
9. To define gender inequality in school context.
10. To state the role of Education in gender equality.

CC-10: TEACHER EDUCATION

Upon completion of this course, the students will be able

1. To develop the student's understanding of the concept, objectives, and principles of teacher education.
2. To acquaint the student with the innovative practice in teacher education.
3. To develop in the student professional ethics and commitment to the profession.
4. To acquaint the student with different agencies of teacher education in India and their rules and functions.
5. To acquaint the student with the system of teacher education in one of the developed countries.
6. To assist the student with the role of the professional organization of teacher educators
7. To help the student to understand major issues and problems of teacher education
8. To acquaint the student with the research orientation in a teacher education program

9. To enable the student to understand the need for continuing education of teachers and teacher educators.

10. To enable the student to understand the planning, administration, and financing of teacher education.

CC-11 COMPARATIVE EDUCATION

Upon completion of this course, the students will be able

1). To understand the concept, significance, and scope of Comparative Education.

2). To acquaint with the various approaches to the study of comparative education, and also factors affecting development of education.

3). To comprehend and compare the concept, practice teaching, and evaluation system of teacher education in focused countries.

4). To know the recent trends and best practices in education such as assistance and open learning, vocational education, and educational administration.

5). To understand and reflect on the comparison of the educational systems of the USA, UK, and India with special reference to Primary Education, Secondary Education, and Higher Education.

CC-12: EDUCATIONAL RESEARCH

Upon completion of this course, the students will be able

1). To understand the concepts of research and educational research. 2). To understand the types and methods of educational research,

3). To understand the steps involved in educational research,

- 4). To understand the procedure to conduct the research in the educational field.
- 5). To understand the issues and problems faced by the State System of education and to find out the remedies to solve them
- 6). To examine the role of research tools in a research study
- 7). To develop the skills in preparation of a research tool.
- 8). To understand the role and use of statistics in educational research.
- 9). To understand the measures of central tendency and its uses.
- 10). To review the educational research articles.
- 11). To convey the essential characteristics of a set of data by representing in tabular and graphical forms

CC-13: INFORMATION AND COMMUNICATION TECHNOLOGY IN EDUCATION

Upon completion of this course, the students will be able

- To develop an understanding of the concept of Educational Technology
- To develop an understanding of the importance and need of communication through ICT
- To develop skills of using Educational and communication technology in classrooms
- To develop an understanding of the concept of instructional System

- To develop an understanding of the importance and need of Instructional System Design
- To develop the process of different Instructional Strategies
- To make the learners skilled in using different Instructional Models
- To develop an understanding of the concept of ICT in Education.
- To develop an understanding of the new trends and technology in ET and ICT

CC-14: EDUCATIONAL MEASUREMENT AND EVALUATION

Upon completion of this course, the students will be able


- To develop an understanding of the concepts of measurement, assessment, and evaluation
- To develop an understanding of the taxonomy of educational objectives
- 3) To compare the tools and techniques of evaluation
- To understand the basic concepts and techniques of measurement and evaluation in education

EC-1: SUBJECTIVE SPECIFIC ELECTIVE/DISSERTATION

Upon completion of this course, the students will be able

- To orient students to develop a positive attitude towards educational research.
- To enable to identify research problem/topic

- To help students formulate research questions, objectives, hypotheses, etc. To enable students to make research designs or actual plans of work.
- To orient students with the techniques of field surveys and collecting information from different sources.
- To enable students to analyze data/information quantitatively and/or qualitatively and to interpret.
- To acquaint students with the documentation procedure of the project report.


Principal
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