



Trinity College Jalandhar
Affiliated to GNDU, Amritsar
NAAC Accredited and Approved by UGC

Outcome Based Education Framework
2023-24



Internal Quality Assurance Cell
Trinity College Jalandhar

About the College

Trinity College affiliated to GNDU, is the only college run by Christian community in the city of Jalandhar and in fact whole of the district of Jalandhar imparting quality higher education to hundreds of young men and women who pass out of its portals year after year.

The idea of a degree college in the city of Jalandhar was conceived and contemplated by His Excellency Rt. Rev. Dr. Symphorian Keeprath, the missionary Bishop of the Catholic Diocese of Jalandhar, who is the founder of the college. The college is the supreme expression of the Bishop's prophetic foresight and enterprising initiative which he spearheaded for over a period of 30 years.

The college was formally blessed and inaugurated on March 5, 2002 by His Eminence Cardinal Crescenzo Sepe, the delegate of the Pope from Rome and his Excellency Archbishop Lorenzo Baldisseri, the Vatican Ambassador to India in the presence of 150 catholic bishops from all over India. The ceremony was attended by 30000 people from Punjab held in connection with the national assembly of Catholic Bishops' Conference of India in the college campus from 1st March to 8th March 2002.

With just 51 students spread out into first year degree classes of B.A., B.C.A and B.Sc. (IT) and seven teaching staff and eight non-teaching staff, college was set into motion on 8 July 2002. The first academic session of 2002-2003 was formally inaugurated by Dr. S.P Singh, hon'ble Vice chancellor of Guru Nanak Dev University, Amritsar on 24 July 2002. The college building was blessed by Bishop Rt. Rev. Dr. Symphorian Keeprath at the prayer assembly held at main entrance of first floor.

By 2023, students spread in three years of degree classes of B.Com , B.Sc. (Eco)., B.Sc (Medical), B.Sc (Non-Medical), B.Sc (Computer Sc.) B.C.A, B.A, B.Lib., Diploma in Cosmetology, Diploma in Computer Applications, M.Com, M.A (Pol. Sc.) and Senior Secondary Classes in all streams (Arts, Commerce, Medical, Non Medical), Trinity college has successfully completed its eighteen academic sessions.

Presently, the college is owned and managed by the Catholic Diocese of Jalandhar. The administration is looked after by Trinity College Education Society, a registered charitable society. The college has minority educational status from the Government of India. Rt. Rev. Dr. Franco Mulakkal, The bishop of Jalandhar is the president of the trust. Within the span of two decades, the college by the grace and mercy of Almighty God, has bloomed very fast to become an institution much sought after both by youth as well as their guardians for value based education. However its journey towards excellence has still to go a long way to establish itself as a college with a difference. In the years to come, college has devised various plans for incorporating quality initiatives to suit the requirements of academia and industry under the effective leadership and guidance of the Principal Dr. Ajay Prashar. The college envisages to be evidently excellent by undertaking innovative drives for overall development of the Trinitarians.

VISION

We envision our College as a prime mover in transformative education, broadening the cognitive, experiential, and spiritual horizons of students, leading them to higher realms (Ad Altiora) of human life on earth.

This means to us:

1. Trinity aspires to disseminate information in such a way that it transforms the students to be better citizens.
2. Trinity envisions to be a leader in quality education.
3. Trinity molds a generation with a global vision and commitment towards building a 'Better India'.

MISSION

We at Trinity College commit ourselves to the creation of a society wherein the youth are characterized by **INTELLECTUAL STIMULATION, MORAL UPRIGHTNESS AND SPIRITUAL ENLIGHTENMENT**, wherein they establish and nurture **CAMPUS-COMMUNITY NETWORK SO AS TO REACH OUT TO THE LESS PRIVILEGED**, wherein they promote **NATIONAL INTEGRATION WITH THE SPIRIT OF AUTHENTIC INDIAN CULTURE**, wherein they undertake **NETWORKING WITH THE CORPORATE SECTOR** and wherein they become **CHANGE AGENTS WHO EXERCISE A TRANSFORMATIVE INFLUENCE ON SOCIETY**.

CORE VALUES

The following are the Core Values of Trinity College, Jalandhar:

1. **Excellence**

Trinity College aims at excellence in all our academic pursuits by “broadening the cognitive, experiential and spiritual horizons of students”.

2. **Creativity**

To encourage learning that fosters and grows in creative thought, inquisitive mind and self-discovery.

3. **Spirituality and ethics**

We are devoted to the highest standards of “spiritual enlightenment”; honesty, human dignity, pro-existence and integrity of life.

4. **Unity in diversity**

We embrace all aspects of cultural and human diversity and its necessity to ensure a vibrant learning community. We are committed to provide constitutional values like justice, equality, fraternity and liberty. Thus “to transform the students to be better citizens”.

5. **VASUDHAIVA KUTUMBAKAM**

We embrace all aspects of “a generation with a global vision and committed towards building a better world”.

6. Uplift less privileged

As a minority institution, we envision an inclusive education by uplifting the “less privileged” and marginalised especially the minorities through “campus-community network”.

7. Collaboration

We envisage to undertake “networking with corporate sector”, nonprofit and public communities. Through these partnerships, we strive to improve education and the quality of life.

Programmes Offered

Post Graduation:

MA (Pol Sci.)

M.Com

Graduation:

BA

B.Com

BCA

B.Sc (Medical and Non-Medical)

B.Sc (Economics)

B.Sc. (Computer Science)

B.Lib

One Year Diploma:

Computer Applications

Cosmetology

Programme Educational Outcomes

Post Graduation (PG)

PGPEO 1	Develop advance knowledge of their disciplines and able to use their research skills in innovations and investigation of their real-life situations.
PGPEO 2	Evolve a mindset for analysing the problems with critical and analytical thinking.
PGPEO 3	Instil moral/ethical values in conducting one's life and behave as ethical and moralistic citizens
PGPEO4	Cabale of demonstrating leadership qualities and innovating skills in all kind of real-life circumstances using their discipline knowledge and research skills

Under Graduation (UG)

UGPEO 1	Demonstrate and apply comprehensive knowledge and understanding of one or more disciplines from their undergraduate programme of study.
UGPEO 2	Proficient to apply analytic thoughts to real life situations and draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.
UGPEO 3	Embrace moral/ethical and spiritual values in conducting one's life,. avoid unethical behaviour, appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.
UGPEO 4	Exhibit global outlook for building and maintaining social connections and sharing information across cultures through digital literacy with a purpose to be globally competent.
UGPEO 5	Work as change agents in the society to bring transformation for making the society worth living
UGPEO 6	Expertise of effective social interaction and able to earn respectfully in multi-cultural society.

Diploma

DPPEO 1	Own the fundamental knowledge of discipline in simple and practical way as
DPPEO 2	Generate the youth with technical skills related to the discipline to enable them for early entry into job market.
DPPEO 3	Formulate the self-reliant youngsters who are able to earn their livelihood with dignity and survive as socially committed citizens.

Programme and Course Outcomes
PG Department of Commerce

Programme Offered: B.Com

Program Specific Outcomes

PSO No.	Program Specific Outcomes (PSO)
PSOUGBC01	Acquire comprehensive knowledge of Marketing, Human Resource Management, Business and Corporate Law, Economics, Finance, Accounting, Management, Tax and several other branches of Commerce that includes Investment, Insurance, and Banking
PSOUGBC02	Develop and strengthen theoretical and applied aspects of commerce for preparing the students for higher education and research.
PSOUGBC03	Equip with professional, inter personal, presentation and entrepreneurial skills to meet the requirements of business sector.
PSOUGBC04	Enhance the analytical and decision-making skills of the students which can help them in solving business problems in a dynamic environment.
PSOUGBC05	Exercise professional skills, values, team spirit, and leadership to meet the challenges of life and business.
PSOUGBC06	Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals as well as demonstrate knowledge in setting up a computerized set of accounting books
PSOUGBC07	Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

Course Outcomes

Paper: BCG 103 FINANCIAL ACCOUNTING	
Students will be able to-	
BCG103CO1	Define different forms of organization and comparison of different business forms
BCG103CO2	Demonstrate various stock market operations, investors protection and its regulatory authorities.
BCG103CO3	Compare the nature, effect and causes of business combinations and its importance to industrial growth.
BCG103CO4	Explain the social responsibilities of business and business ethics.
Paper: BCG 104 Business Organisation	
Students will be able to-	
BCG104CO1	Define different forms of organization and comparison of different business forms
BCG104CO2	Demonstrate various stock market operations, investors protection and its regulatory authorities.
BCG104CO3	Compare the nature, effect and causes of business combinations and its importance to industrial growth.
BCG104CO4	Explain the social responsibilities of the business and business ethics.

Paper: BCG 105 Business Communication

Students will be able to-

BCG105CO1	Understand the concept of communication in the business environment.
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BCG105CO2	Apply skills for effective interpersonal communications
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BCG105CO3	Explain useful tips and strategies for clear communication and thus assist in securing a good job coupled with career advancement in future.
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BCG105CO4	Develop knowledge and skills in business writing
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Semester-II

Paper: BCG 203 Advance Financial Accounting

Students will be able to-

BCG203CO1	Apply their theoretical knowledge in practical working by learning tally - account creation and data entry.
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BCG203CO2	Outline the important provisions of Partnership Act, 1932 with regard to preparation of its final accounts.
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BCG203CO3	Solve various problems regarding maintenance of partnership accounts with special regard to its reconstitution.
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BCG203CO4	Demonstrate the different methods of depreciation as a means of knowing true value of asset.
BCG203CO5	Solve accounting problems of small business through various systems of accounting.
Paper: BCG 204 Commercial Law	
Students will be able to-	
BCG204CO1	Understand the formation of a legally valid contract for a business
BCG204CO2	Develop requisite skills to understand various case studies
BCG204CO3	Analyze the real life case studies for practical applicability of legal rules
BCG204CO4	Integrate the knowledge of commercial laws in business world.
Paper: BCG 206 Functional Management	
Students will be able to-	
BCG206CO1	Demonstrate their conceptual skills, understanding and application of principles and functions of management.
BCG206CO2	Develop skills and ability to work in groups to achieve organizational goals and ability to lead teams.

BCG206CO3	Demonstrate their ability in applying the managerial concepts in real time problems.
BCG206CO4	Make a choice to adopt management as profession in future.
Semester-III	
Paper: BCG 303 Corporate Accounting	
Students will be able to-	
BCG303CO1	Recall the basic accounting treatment of companies studied in SSC II.
BCG303CO2	Understand the accounting treatment of various aspects of Companies, Banking Companies and Insurance Companies.
BCG303CO3	Apply this knowledge in solving practical questions of accounting.
BCG303CO4	Analyze the accounting information of the companies.
Paper: BCG 304 Company Law	
BCG304CO1	Identify the principles of corporate law covered in the course.
BCG304CO2	Analyze the policy issues underpinning the corporate laws covered in the course.
BCG304CO3	Access, use, interpret complex statutory material to resolve corporate law problems and issues.
BCG304CO4	Apply the critical thinking required to bring about solutions to complex corporate law problems

Paper: BCG 305 Financial Management

Students will be able to-

BCG305CO1	Remember and understand both the theoretical & practical role of financial management in business corporations.
BCG305CO2	Analyse risk within context of financial decision making. CO 3:
BCG305CO3	Analyse the different sources of finance and their cost.
BCG305CO4	Evaluate different sources of finance as well as investment proposals while deciding on optimal capital structure as well as while utilizing the funds raised in the business.

Paper: BCG 306 International Business

Students will be able to-

BCG306CO1	Understand the basic concepts of international finance, marketing and also the various environment in which international businesses operate.
BCG306CO2	Illustrate the unique issues and challenges faced by firms involved in international activities.

BCG306CO3	analyse the risks and opportunities dispensed for global businesses and develop practical approach to frame effective strategies and take good business decisions.
BCG306CO4	Relate the impact of legal and regulatory compliance on a firm's trade inventiveness.
Paper: BCG 307 Business Environment	
Students will be able to-	
BCG307CO1	Define and understand the various nuances of the business environment.
BCG307CO2	Understand the role of environmental factors in the conduct of business in the country.
BCG307CO3	Identify the government rules & regulations affecting the business organizations and latest amendments in the current Budgets.
BCG307CO4	Appraise the data relating to various economic Policies & economic planning of India since inception.
Semester-IV	
Paper: BCG 403 Goods and Service Tax	
Students will be able to-	
BCG403CO1	Explain the constitutional aspects and implementation of GST in India.

BCG403CO2	List and analyse the benefits of Goods and Service tax.
BCG403CO3	Assess the liability of paying Goods and Service tax.
BCG403CO4	Identify the taxable event under Goods and Service tax.
Paper: BCG 404 Industrial Law	
Students will be able to-	
BCG404CO1	Understand the various laws relating to Industrial environment.
BCG404CO2	Develop skills to apply the knowledge of various laws relating to factory, trade unions and workers' rights in real life situations.
BCG404CO3	Interpret the important causes and impact of industrial disputes.
BCG404CO4	Compile the important provisions of the working of Factories in India as per Law.
Paper: BCG 405 Principles and Practices of Banking and Insurance	
Students will be able to-	
BCG405CO1	Have comprehensive knowledge of the Indian banking and insurance structure.

BCG405CO2	Understand the various functions, rules and regulations of central & commercial Banks; and the Insurance Act 1938, LIC Act 1956, GIC Act 1972 & IRDA Act 1999.
BCG405CO3	Apply this knowledge effectively as the bank's customer and searching out the suitable insurance policy for them.
Paper: BCG 406 Cost Accounting	
Students will be able to-	
BCG406CO1	Understand basic concepts of cost accounting
BCG406CO2	Apply knowledge to solve practical problems and take managerial decisions
BCG406CO3	Determine total cost and profit of product/service/contract costing/process costing and formulate proposals
BCG406CO4	Analyze the reasons of variance in estimated and actual cost to minimize losses and maximize profits
Semester-V	
Paper: BCG 503 Management Accounting	
Students will be able to-	
BCG503CO1	Have knowledge about- how to infer financial statements and then make use of the same inferences to support a decision.

BCG503CO2	Relate and classify various sources of raising funds along with plans to attain profit maximization.
BCG503CO3	Find and summarize appropriate information to construct the report to be provided to different users for taking effective decision.
BCG503CO4	show the relationship of authority and responsibility and prove that ultimately responsibility cannot be avoided.
Paper: BCG 504 Direct Tax Law	
Students will be able to-	
BCG504CO1	Understand and acquire knowledge of basic concepts of Income tax and sources of income
BCG504CO2	Apply knowledge to solve practical problems and calculate tax liability
BCG504CO3	Determine Tax incidence on the basis of residential status
BCG504CO4	Identify and comply with the relevant provisions of the Income Tax Act and do tax planning
Paper: BCG 505 Auditing	
Students will be able to-	
BCG505CO1	summarize the auditing standards and the general procedures required in conducting an audit

BCG505CO2	Understand the knowledge about appointment, rights, duties and responsibilities and liabilities of an auditor.
BCG505CO3	Demonstrates the knowledge, skills, and attitudes to help them understand the various types of audit as well as the other current developments in auditing.
BCG505CO4	Analyse the processes involved in auditing as well as various audit tests and other assurance services.
Paper: BCG 521 Banking Service Management	
	Students will be able to-
BCG521CO1	Get Comprehensive knowledge of the Indian Banking Structure.
BCG521CO2	Understand the various functions, various services, rules and regulations of central & commercial banks.
BCG521CO3	Apply this knowledge effectively as the bank's customer.
Paper: BCG 522 Insurance Service Management	
	Students will be able to-
BCG522CO1	Understand the role and code of conduct of insurance agents and surveyors.
BCG522CO2	Interpret the procedure of claim settlement.

BCG522CO3	learn about the documentation procedure involved in applying for insurance
BCG522CO4	Apply the practical training to compute premiums and bonuses.
BCG522CO5	Deep insight into the impact of taxation, competition and regulation on the pricing of insurance products.
Semester-VI	
Paper: BCG 603 Operations Research	
	Students will be able to-
BCG603CO1	Have knowledge of concepts and tools of Operations Research.
BCG603CO2	Utilize analytical thought process to help develop modelling.
BCG603CO3	Understand mathematical techniques used in various areas of research.
BCG603CO4	Apply these techniques constructively to make effective business decisions.
Paper: BCG 604 Corporate Governance	
Students will be able to-	
BCG604CO1	Understand the influence of corporate governance system on the performance of an organisation.

BCG604CO2	Discuss the moral and social responsible dimensions of corporate governance after studying the concepts of whistle blowing, credit rating and insider trading
BCG604CO3	Compare the recommendations of various committees which depict the evolution of corporate governance.
BCG604CO4	They will be able to critically apply understanding of corporate governance in real–world contexts and to develop the skills to build good leaders while following business ethics.
Paper: BCG-611 Portfolio Management	
Students will be able to-	
BCG611CO1	Define theoretical concept of portfolio management.
BCG611CO2	Demonstrate practical issues in the field of portfolio management
BCG611CO3	Construct efficient market hypothesis used in the field of the subject
BCG611CO4	analyze market expectations and build strategic asset allocation
Paper: BCG 612 Financial Services	
Students will be able to-	

BCG612CO1	Define the concept of the Indian financial system, markets, institution and financial services.
BCG612CO2	Understand the operations, role, functioning and regulatory guidelines regarding the different financial institutions.
BCG612CO3	Describe the variety of financial products, services, and strategies offered by the various financial services institutions.
BCG612CO4	Explain the recent developments in plastic money, impediments to growth of these services and their future scope.

PO and CO Mapping

PSOUGBCG01:	Acquire comprehensive knowledge of Marketing, Human Resource Management, Business and Corporate Law, Economics, Finance, Accounting, Management, Tax and several other branches of Commerce that includes Investment, Insurance, and Banking.	BCG1031CO1, BCG104CO1, BCG105CO1, BCG203CO1, BCG204CO1, BCG206CO1, BCG303CO1, BCG304CO1, BCG305CO1, BCG306CO1, BCG307CO1, BCG403CO1, BCG404CO1, BCG405CO1, BCG406CO1, BCG503CO1, BCG504CO1, BCG505CO1, BCG521CO1, BCG522CO1, BCG603CO1, BCG604CO1, BCG611CO1, BCG612CO1,
PSOUGBCG02	Develop and strengthen theoretical and applied aspects of commerce for preparing the students for higher education and research	BCG1031CO2, CO3 BCG203CO2,03,04, 05, BCG204CO2, 03, 04 BCG303CO3,04 BCG304CO4, BCG305CO2,03,04 BCG306CO2,3,4 BCG307CO3,4 BCG403CO2, 3,4 BCG404CO2,3, BCG405CO3, BCG406CO2,03 BCG503CO4, BCG504CO2, 03 BCG505CO4, BCG521CO2, 03 BCG522CO2,03,04,05 BCG603CO2, 3, 4 BCG604CO3,4 BCG611CO2, 3, 4 BCG612CO1,

PSOUGBC03	Equip with professional, inter personal, presentation and entrepreneurial skills to meet the requirements of business sector.	BCG203CO2 BCG603CO2 BCG206CO2 BCG206CO4
PSOUGBC04	Enhance the analytical and decision making skills of the students which can help them in solving business problems in a dynamic environment.	BCG612CO1 BCG104CO4 BCG206CO2 BCG206CO4
PSOUGBC05	Exercise professional skills, values, team spirit, and leadership to meet the challenges of life and business.	BCG104CO3 BCG104CO4
PSOUGBC06	Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals as well as demonstrate knowledge in setting up a computerized set of accounting books	BCG504CO2 BCG504CO3 BCG504CO4 BCG403CO4
PSOUGBC07	Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.	BCG521CO1 BCG305CO3 BCG612CO2 BCG603CO4 BCG604CO4 BCG406CO3

Programme Offered: M.Com

Program Specific Outcomes

PSO No.	Program Specific Outcomes (PSO)
PSOPGMC01	Apply the knowledge of conventional as well as contemporary issues in the field of accounting, finance, human resource management, marketing, banking and insurance, tax planning, business environment to solve complex business problems.
PSOPGMC02	Identify, formulate, review literature and substantiate the decision-making process through modelling and data analysis in the field of research.
PSOPGMC03	Demonstrate knowledge and understanding of the major theories relating to the field of commerce and business and developing realistic solutions to business problems by evaluating various policies of the government and laws and legislations relating to same.
PSOPGMC04	Understand, examine, and evaluate the impact of latest technological developments in the field of commerce.
PSOPGMC05	Create, select, and apply the appropriate techniques for evaluating the economic viability of business enterprises.
PSOPGMC06	Develop and enhance the entrepreneurial and employability skills of the students in the field of teaching, research, consultancy, accountancy, and corporate sector.

Course Outcomes

M COM Semester I

STATISTICAL ANALYSIS FOR BUSINESS (MC-102)

CODE &N0.	Course Outcomes
MC102CO1	Understand and analyze the process of collection data and their sources
MC102CO2	Develop understanding and justification for choice of various types of probability and non-probability sampling techniques, and the importance of randomization.
MC102CO3	Understand and apply probability theory and theoretical probability distributions in business and research.
MC102CO4	Design questionnaire, conduct pilot survey and pre-testing of questionnaire.
MC102CO5	Use sample statistics to test the hypothesis regarding population and estimate the population parameters and to make judgments about the population especially in business context.
MC102CO6	Select appropriate statistical techniques for summarizing, displaying, comparing, analyzing and interpreting business data.

MANAGEMENT PRINCIPLES AND ORGANISATIONAL BEHAVIOUR (MC-103)

CODE &N0.	Course Outcomes
MC103CO1	Imbibe conceptual knowledge of management and organization behavior for analyzing the opportunities and challenges
MC103CO2	Analyze the complexities pertaining to leadership styles and motivation techniques associated with management of individual behavior in the organization.
MC103CO3	Recognize, differentiate and assess for an individual, the concept of values, attitudes, personality, emotions and emotional intelligence.
MC103CO4	Demonstrate how the organizational behavior enables them to synthesize related information and evaluate options for the most logical and optimal solution such that they would be able to predict and control human behavior.

BUSINESS ENVIRONMENT (MC-104)

CODE &N0.	Course Outcomes
MC104CO1	Classify the internal as well as external environment affecting any business organization
MC104CO2	Identify various govt. rules, regulations and Policies relating to business.
MC104CO3	Appraise the data relating to various economic policies & economic Planning of India in inception
MC104CO4	Propose the limitations of various laws and suggestions for the improvement of the policies framed by our government
MC104CO5	Draw inferences about the latest amendments in the current Budgets

MANAGEMENT ACCOUNTING & CONTROL ACCOUNTING (MC 105)

CODE & N0.	Course Outcomes
MC105CO1	Obtain knowledge and understanding of models and methods relating to reporting, communication, decision making and accountability in the management control area.
MC105CO2	Evaluate the various management control systems and management accounting practices
MC105CO3	To examine the performance on the basis of evaluation parameters of enterprise in terms of expenses, control systems and pricing

SEMESTER II

RESEARCH METHODOLOGY (MC-203)

CODE & N0.	Course Outcomes
MC203CO1	Understand research methodologies
MC203CO2	Design a research study from its inception to the report stage.
MC203CO3	Collect, analysis, interpretation and presentation skills at par with globally accepted standards.
MC203CO4	Develop rational problem solving skills
MC203CO5	Develop Analytical thinking and subsequent professional careers.

CORPORATE FINANCIAL ACCOUNTING AND AUDITING (MC201)

CODE & N0.	Course Outcomes
MC201CO1	Understand corporate Accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards.
MC201CO2	Identify the conceptual aspect of corporate accounting.
MC201CO3	Evaluate the nature, purpose and scope of an audit and the legal, regulatory and ethical framework for auditing
MC201CO4	Identify and apply the procedures required to evaluate control risk, including communication of the weaknesses, impacts and professional recommendations to those in charge of governance and management

FINANCIAL MANAGEMENT (MC202)

CODE & N0.	Course Outcomes
MC202CO1	Define the various sources from which funds can be raised in a business and the ways to use these funds in an optimum way.
MC202CO2	Explain concept of financial planning so as to become good financial Managers.
MC202CO3	Construct framework of various projects which may help them in their future career.
MC202CO4	Do cost-benefit analysis of each project, evaluation of the proposals & to take good decisions on financial matters.

MARKETING MANAGEMENT (MC-204)

CODE &N0.	Course Outcomes
MC204CO1	Demonstrates the need, importance and process of marketing planning and control
MC204CO2	Identify core concepts of marketing and the role of marketing in business and society
MC204CO3	Develop marketing strategies based on product, price, place and promotion objectives
MC204CO4	Design creative solutions to marketing problems

HumanResourceManagement-MC205

CODE &N0.	Course Outcomes
MC205CO1	Understand the concept of human resource management and its relevance in organizations.
MC205CO2	Develop necessary skills set for application of various HR issues.
MC205CO3	To analyze the strategic issues and strategies required to recruit, select and Develop manpower resources
MC205CO4	To integrate the knowledge of HR concepts to take correct business decisions

SEMESTER III

RETAIL MANAGEMENT (MC 352)

CODE &N0.	Course Outcomes
MC352 CO1	Recall the model of Retail Sector and make use of the same in discovering and combining to attain new business opportunities.
MC352 CO2	Experiment with online trends to make use of the same in selecting cost effective alternative.
MC352 CO3	To organize the inputs in an appropriate setup to take part in the market and gain competitive edge over others.
MC352 CO4	To list the various pricing options to summarize and build a business plan that marks the maximizing of customer base.

CONSUMER BEHAVIOUR (MC 351)

CODE &N0.	Course Outcomes
MC351CO1	Define the conception of consumer behavior and reveal its importance in the context of marketing.
MC351CO2	Identify factors that influence consumer behavior.
MC351CO3	Examine the consumer decision-making process.
MC351CO4	Determine the positioning strategy according to consumer characteristics and behavior and correlate the marketing strategies as per behavior patterns.

SECURITY MARKET OPERATIONS (MC 322)

CODE &N0.	Course Outcomes
MC322CO1	To give an overview of Capital Market and its components.
MC322CO2	To enable the students to understand various innovative Financial Instruments.
MC322CO3	To enable the students to understand the role of Depository System and Depository Act 1996 and SEBI in security trading
MC322CO4	To impart knowledge regarding the calculation methodology of Stock Market Indices

STRATEGIC MANAGEMENT (MC 321)

CODE &N0.	Course Outcomes
MC321CO1	To describe the role of strategic management in the success of successful companies. management of an organization.
MC322CO2	To enable the students understand the components which formulate a strategic intent. •
MC321CO3	To make students understand and formulate different strategies at business level and corporate level.
MC321CO4	To discuss the role of corporate governance and social responsibility in the strategic management of an organization

Banking and Insurance Services (MC 301)

CODE &N0.	Course Outcomes
MC301CO1	To provide fundamental understanding of the structure of commercial banking in India and its management.
MC301CO2	To apprise the students regarding the regulatory environment in which insurance companies operate.
MC301CO3	To give an insight into new innovations in the banking sector.
MC301CO4	To apprise the students regarding the status of bancassurance in India

SEMESTER IV

INTERNATIONAL ACCOUNTING (MC 401)

CODE &N0.	Course Outcomes
MC401CO1	Explain the concept of international accounting, analyze and assess its peculiarities and importance from the perspective of the processes of globalization and integration.
MC401CO2	Identify and understand differences of international accounting systems and reasons for such differences.
MC401CO3	Explain, analyze and assess theoretical and practical aspects of accounting harmonization and convergence.
MC401CO4	Study and assess content of International Financial Reporting Standards (IFRS and peculiarities of alternative accounting and reporting methods).

E-COMMERCE (MC 402)

CODE &N0.	Course Outcomes
MC402CO1	Understand the E-Commerce, current and emerging business models and the technology and infrastructure of the business.
MC402CO2	Apply E-Commerce concepts to help business grow.
MC402CO3	Innovation of the E-Commerce to have competitive advantage over others.

ADVERTISING AND SALES MANAGEMENT (MC 451)

CODE &N0.	Course Outcomes
MC451CO1	Introduce the various principles adopted for advertising and marketing different products.
MC51CO2	Create and manage media campaigns
MC451CO3	Engage and communicate with clients and target audience.
MC451CO4	Create legal, ethical and social responsibility of the advertisers

BRAND AND DISTRIBUTION (MC 452)

CODE &N0.	Course Outcomes
MC452CO1	Introduce brand related issues viz. Brand Management, Brand Equity and Brand Loyalty.
MC452CO2	Formulate various branding strategies.
MC452CO3	Familiarize Qualitative and Quantitative Research techniques for measuring Brand Performance
MC452CO4	Understand different Retail formats and retail locations.

SERVICE MARKETING (MC 453)

CODE &N0.	Course Outcomes
MC453CO1	Define customer expectations from services and their perceptions about it.
MC453CO2	Discuss concept of service recovery paradox.
MC453CO3	Discuss an effective services marketing research program.
MC453CO4	Understand different methods for pricing of services.
MC453CO5	Understand different models to evaluate service quality.

PO and CO MAPPING

PSO NO.	Content	CO. NO
PSOPGMC01	Illustrate the systematic and rigorous learning and exposure to Banking and Finance related disciplines.	MC201CO3 MC201CO2 MC201CO4 MC202CO1 MC202CO2 MC202CO3 MC202CO4 MC301CO1
PSOPGMC02	Develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management and Banking Transactions of a business.	MC401CO1 MC401CO2 MC401CO3 MC401CO4 MC203CO1 MC203CO3 MC203CO2 MC203CO4 MC203CO5 MC351CO3 MC301CO2
PSOPGMC03	Policy formulation and decision making Process	MC351CO3 MC352CO4 MC352CO1 MC352CO2 MC451CO4 MC321CO1 MC321CO2
PSOPGMC04	Understand the financial Reporting Practices	MC202CO1 MC202CO2 MC202CO3 MC202CO4
PSOPGMC05	Demonstrate business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments.	MC202CO1 MC202CO2 MC202CO3 MC202CO4 MC452CO3
PSOPGMC06	Practice to apply knowledge acquired in problem solving and Research Skills .	MC402CO2 MC401CO4 MC351CO3
PSOPGMC07	Understand the types of transactions and mechanism of International Market	MC402CO2 MC401CO4 MC401CO1 MC453CO3

Programme and Course Outcomes
Department of Computer Science

Programme Offered:
Bachelor of Computer Applications (BCA)

Program Specific Outcomes

PSO Code	Programme Specific Outcome
PSOUGBCA01	Pursue higher studies in the area of computer science and applications
PSOUGBCA02	Globally expertise the students for the development of software applications.
PSOUGBCA03	Ability to enhance and develop techniques for self-employment in computer application.
PSOUGBCA04	Meet the requirement of the industry
PSOUGBCA05	Ability to communicate effectively
PSOUGBCA06	Preparing students in various discipline of technologies like applications, languages, web development, networking, software Engineering, Database handling.
PSOUGBCA07	Encouraging students to convert their start up idea to reality by implementing
PSOUGBCA08	Understand and recognise different values system, responsibilities & professional ethics
PSOUGBCA09	Ability to know various issues and latest trends of technology and create innovative ideas and solutions to existing problems.

Course Outcomes

TBCA101- C programming Language	
Code & No.	Course Outcome
TBCA101CO1	Create programs
TBCA101CO2	Understand the basic terminology used in programming.
TBCA101CO3	Express the logical flow used in programming
TBCA101CO4	Explain the various concepts of C Programming Language.

TBCA102- Introduction to Computers and Information Technology	
Code & No.	Course Outcome
TBCA102CO1	Identify of input and output devices of computers
TBCA102CO2	Utilise the functioning of various components of computer system
TBCA102CO3	Defining the role of Operating system
TBCA102CO4	Preparing documents presentations spread sheets using MS Office

TBCA104- Practical-I (MS Office 2010 and Basic C Programming)	
Code & No.	Course Outcome
TBCA104CO1	Be able to implement, test, debug, and document programs in C.
TBCA104CO2	Understand low-level input and output routines.
TBCA104CO3	Program with pointers and arrays, perform pointer arithmetic, and use the pre-processor.
TBCA104CO4	Preparing documents presentations spread sheets using MS Office

TBCA201-Programming Using C++	
Code & No.	Course Outcome
TBCA201CO01	Demonstrate a solid understanding of C++syntax, data types, and control structures
TBCA201CO02	Implement Program using Polymorphism, Overloading
TBCA201CO03	Understand and implement Inheritance concepts in C++
TBCA201CO04	Develop file input/output operations and file manipulation in C++

TBCA202- Digital Electronics

Code & No.	Course Outcome
TBCA202CO1	Understand and examine the structure of various number system and application in digital design.
TBCA202CO2	Understand, Analyse and design various combinational and sequential circuit.
TBCA202CO3	Understand the fundamental concept and techniques used in digital electronics.
TBCA202CO4	Develop skill to build and troubleshoot digital circuit.

TBCA203-Numerical methods and Statistical Techniques

Code & No.	Course Outcome
TBCA203CO01	Understand error, source of error and its effect on any numerical computation and also analysing the efficiency of any numerical algorithm
TBCA203CO02	Learn how to obtain numerical solution of nonlinear equations using Bisection, Newton – Raphson and fixed-point iteration methods.
TBCA203CO03	Solve system of linear equations numerically using direct and iterative methods.
TBCA203CO04	Understand the methods of Statistical Techniques

TBCA204 Practical – I (Advanced C++ Programming)

Code & No.	Course Outcome
TBCA204CO01	Demonstrate a solid understanding of C++syntax, data types, and control structures
TBCA204CO02	Implement Program using Polymorphism, Overloading
TBCA204CO03	Understand and implement Inheritance concepts in C++
TBCA204CO04	Develop file input/output operations and file manipulation in C++

TBCA301-Computer Architecture

Code & No.	Course Outcome
TBCA301CO01	Explain the organization of basic computer, its design and the design of control unit
TBCA301CO01	Understand the organization of memory and memory management hardware
TBCA301CO01	Demonstrate the working of central processing unit and RISC and CISC Architecture

TBCA301CO01	Elaborate advanced concepts of computer architecture, Parallel Processing, inter processor communication and synchronization
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TBCA302-Database Management System	
Code & No.	Course Outcome
TBCA302CO01	understand fundamental concepts in databases, including data models, schemas, and relational database principles.
TBCA302CO02	Expertise in normalizing and denormalizing databases to achieve the desired balance between efficiency and simplicity
TBCA302CO03	Demonstrate Structured Query Language (SQL) for tasks such as querying databases, updating records, and managing database security.
TBCA302CO04	Acquire knowledge of BigData and non-relational (NoSQL) database concepts.
TBCA303-Python Programming	
Code & No.	Course Outcome
TBCA303CO01	Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.
TBCA303CO02	Determine the methods to create and manipulate Python programs
TBCA303CO03	Identify the commonly used operations
TBCA303CO04	Use functions and represent Compound data using Lists, Tuples and Dictionaries
TBCA304-Programming Lab –Python	
Code & No.	Course Outcome
TBCA304CO01	Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements. Understand
TBCA304CO02	Express proficiency in the handling of strings and functions. Understand
TBCA304CO03	Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.
TBCA304CO04	Identify the commonly used operations involving file systems and regular expressions.

TBCA305-Programming Lab – Oracle	
Code & No.	Course Outcome
TBCA305CO01	Understand, appreciate and effectively explain the underlying concepts of database technologies.
TBCA305CO02	Design& implement a database schema for given problem domain.
TBCA305CO03	3. Populate & query a database using SQL DML/DDI commands.
TBCA305CO04	Programming PL/SQL including stored procedures, stored functions, cursors, packages.
TBCA401-Data Structure and File Processing	
Code & No.	Course Outcome
TBCA401CO01	Understand fundamentals of data structures
TBCA401CO02	Explore data structures like Trees and Graphs
TBCA401CO03	Compare the Complexity of Sorting Techniques in data structure
TBCA401CO04	Apply various File organisation Techniques

TBCA402-Information System	
Code & No.	Course Outcome
TBCA402CO01	Relate the basic concepts and technologies used in the field of management information systems
TBCA402CO02	Compare the processes of developing and implementing information systems.
TBCA402CO03	Outline the role of the ethical, social, and security issues of information systems
TBCA402CO04	Translate the role of information systems in organizations, the strategic management processes, with the implications for the management

TBCA403-System Software	
Code & No.	Course Outcome
TBCA403CO01	Understand the relationship between system software and machine architecture.
TBCA403CO02	understand the concepts required to develop the system software
TBCA403CO03	make proper use of system software tools

TBCA403CO04	design and implementation of assemblers, macro processor, linker and compiler.
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TBCA404-Internet Applications

Code & No.	Course Outcome
TBCA404CO01	Demonstrate knowledge of fundamental internet Concepts
TBCA404CO02	Develop web pages using the HTML and CSS
TBCA404CO03	Gain awareness of Search engine concept
TBCA404CO04	Understand the concepts of intranet and extranet

TBCA405- Practical Lab-Internet Application

Code & No.	Course Outcome
TBCA405CO01	Understand, analyze and apply the role of languages like HTML, DHTML, CSS, and Java Script.
TBCA405CO02	Analyze a web page and identify its elements and attributes in comparison to traditional projects.
TBCA405CO03	Create dynamic web pages using Javascript.
TBCA405CO04	Create web pages using HTML, DHTML, CSS. 5. Description of Web Services its Uses & Types

TBCA406 Practical Lab -Data Structure

Code & No.	Course Outcome
TBCA406CO01	Implementation of linked list using C++
TBCA406CO02	2. Implementation of stack queue using linked list and its operation like searching, inserting, deleting.
TBCA406CO03	3. Implementation of binary tree and its operations.
TBCA406CO04	4. Implementation of different sorting and searching techniques using C++.

TBCA501-Software Engineering

Code & No.	Course Outcome
TBCA501CO01	Plan a software engineering process life cycle , including the specification, design, implementation, and testing of software systems

	that meet specification, performance, maintenance and quality requirements
TBCA501CO02	Analyze and translate a specification into a design, and then realize that design practically, using an appropriate software engineering methodology.
TBCA501CO03	develop the code from the design and effectively apply relevant standards and perform testing, and quality management and practice
TBCA501CO04	use modern engineering tools necessary for software project management, time management and software reuse

TBCA502-Web Technologies

Code & No.	Course Outcome
TBCA502CO01	Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet
TBCA502CO02	develop a dynamic webpage by the use of java script and DHTML.
TBCA502CO03	Explain the history of the internet and related internet concepts that are vital in understanding web development
TBCA502CO04	Use web application development software tools i.e. Ajax, PHP and XML etc. and identify the environments currently available on the market to design web sites.

TBCA503-operating system

Code & No.	Course Outcome
TBCA503CO01	Identify the role of Operating System. To understand the design of control unit.
TBCA503CO02	Understanding CPU Scheduling, Synchronization, Deadlock Handling and Comparing CPU Scheduling Algorithms. Solve Deadlock Detection Problems.
TBCA503CO03	Describe the role of paging, segmentation and virtual memory in operating systems. 4. Description of protection and security and also the Comparison of UNIX and Windows based OS.
TBCA503CO04	Defining I/O systems, Device Management Policies and Secondary Storage Structure and Evaluation of various Disk Scheduling Algorithms.

TBCA504-Java Programming Language

Code & No.	Course Outcome
TBCA504CO01	Understand the concept of OOPs as well as the purpose and usage principles of Inheritance, polymorphism, encapsulation etc.
TBCA504CO02	2. Understand the basic concepts of classes and objects.
TBCA504CO03	3. Understand JVM Concept , Data types and Operators, Strings
TBCA504CO04	4. Understand Internet Programming Using Java Applets & Graphic Programming & Make use of array, constructors, Inheritance, Packages and Interfaces.

TBCA505-Practical Lab-Java

Code & No.	Course Outcome
TBCA505CO01	Demonstrate a solid understanding of Java syntax, data types, and control structures
TBCA505CO02	Implement effective error handling through try-catch blocks, exception classes, and handling different types of exceptions.
TBCA505CO03	Understand and implement multithreading concepts in Java
TBCA505CO04	Develop file input/output operations and file manipulation and database connectivity in Java.

TBCA506-Practical Lab –Web designing using html

Code & No.	Course Outcome
TBCA506CO01	Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet
TBCA506CO02	develop a dynamic webpage by the use of java script and DHTML.
TBCA506CO03	Explain the history of the internet and related internet concepts that are vital in understanding web development
TBCA506CO04	Use web application development software tools i.e. Ajax, PHP and XML etc. and identify the environments currently available on the market to design web sites.

TBCA601-Computer Graphics	
Code & No.	Course Outcome
TBCA601CO01	Understand the basics of computer graphics, different graphics systems and applications of computer graphics
TBCA601CO02	Use of geometric transformations on graphics objects and their application in composite form
TBCA601CO03	Explore projections and visible surface detection techniques for display of 3D scene on 2D screen.
TBCA601CO04	Render projected objects to naturalize the scene in 2D view and use of illumination models for this.

TBCA602-Computer Networks	
Code & No.	Course Outcome
TBCA602CO01	Compare the Working of TCP/IP and OSI Reference model
TBCA602CO02	Understand Different Components in Networking
TBCA602CO03	Analyse principles and protocols that govern communication between computers
TBCA602CO04	Design and manage networks, exploring network security

TBCA603 Practical Lab- Computer Graphics	
Code & No.	Course Outcome
TBCA603CO01	Implement simple graphics programs using C++.
TBCA603CO02	Write a program like draw a line, circle, and Ellipse.
TBCA603CO03	Implement the programs with flood fill functions.
TBCA603CO04	Implement simple graphics programs using C++ Write a program like draw a line, circle, and Image Editing using Clipping techniques & 2D, 3D techniques

TBCA604 Practical Lab-Project	
Code & No.	Course Outcome
TBCA604CO01	Able to do some innovative work with applying the knowledge gained from various courses undergone in the earlier years

TBCA604CO02	Able to exhibit both analytical and synthetically skills.
TBCA604CO03	Able to know the complete project life cycle and the project time estimation & its management.
TBCA604CO04	Able to gain knowledge of various simulation tools and able to culture working in a team.

Mapping PSO with Course Outcome (BCA)

PSO	CO
PSOUGBCA01	TBCA601, TBCA602, TBCA603,TBCA604
PSOUGBCA02	TBCA101,TBCA201, TBCA303,TBCA401, TBCA502,TBCA601, TBCA604
PSOUGBCA03	TBCA303,TBCA504, TBCA502,TBCA404
PSOUGBCA04	TBCA303,TBCA504, TBCA601,TBCA602 ,TBCA302
PSOUGBCA05	TBCA105,TBCA205
PSOUGBCA06	TBCAC201,TBCA302 ,TBCA303,TBCA305 ,TBCA401,TBCA405, TBCA406,TBCA501 ,TBCA502,TBCA504, TBCA505,TBCA506, TBCA602
PSOUGBCA07	TBCA104,TBCA204, TBCA304,TBCA305, TBCA405,TBCA406, TBCA505,TBCA506,

	TBCA603,TBCA604
PSOUGBCA08	TBCA105,TBCA205, TBCA207,TBCA407
PSOUGBCA09	TBCA402,TBCA502 ,TBCA501

Programme Offered :
BSC COMPUTER SCIENCE
PROGRAM SPECIFIC OUTCOME

PSO CODE	PROGRAMME SPECIFIC OUTCOME
PSOUGBSC01	Pursue higher studies in the area of computer science and applications
PSOUGBSC02	Ability to apply knowledge of computing, mathematics, and basic sciences that may be relevant
PSOUGBSC03	Prepare students to be aware of excellence, leadership, written ethical codes and guidelines and lifelong learning needed for successful professional career by providing them with an excellent academic environment.
PSOUGBSCA04	To inculcate in students professional, effective communication skills, team work, multidisciplinary approach and an ability to relate issues to broader social context.
PSOUGBSC05	Interpret and apply the implications of environment awareness initiatives incorporated in curriculum.
PSOUGBSC06	Adaptability and capacity building to the ever changing needs of the industry and employment opportunities.
PSOUGBSC07	Inculcate the human values through curricular, co-curricular and extracurricular activities.

COURSE OUTCOMES

TBSC 101- COMPUTER FUNDAMENTAL & PC COMPUTING	
CODE & NO.	COURSE OUTCOME
TBSC101CO1	Basic concepts of a computer
TBSC101CO2	Devices, hardware and software, data storage devices , memory
TBSC101CO3	Understand the basic of ms word, powerpoint, slides
TBSC101CO4	Basic of ms excel, sorting, filtering, fill series

TBSC 102- PRACTICAL COMPUTER FUNDAMENTAL & PC COMPUTING	
CODE & NO.	COURSE OUTCOME
TBSC102CO1	Be able to implement MS word, mail merge
TBSC102CO2	Understand Powerpoint, making slides and presentation
TBSC102CO3	All about window screen, desktop, taskbar
TBSC102CO4	Preparing documents presentations spread sheets using MS office

TBSC 201 : PROGRAMMING USING C	
CODE & NO.	COURSE OUTCOME
TBSC201CO1	DEVELOP A C PROGRAM.
TBSC201CO2	CONTROL THE SEQUENCE OF THE PROGRAM AND GIVE LOGICAL OUTPUTS.
TBSC201CO3	IMPLEMENT STRINGS IN YOUR C PROGRAM.
TBSC201CO4	NUMBER SYSTEMS AND CONVERSION

TBSC 202- PRACTICAL PROGRAMMING USING C

CODE & NO.	COURSE OUTCOME
TBSC202CO1	BE ABLE TO IMPLEMENT MS WORD, MAIL MERGE
TBSC202CO2	UNDERSTAND POWERPOINT, MAKING SLIDES AND PRESENTATION
TBSC202CO3	ALL ABOUT WINDOW SCREEN, DESKTOP, TASKBAR
TBSC202CO4	PREPARING DOCUMENTS PRESENTATIONS SPREAD SHEETS USING MS OFFICE

TBSC301 : COMPUTER ORIENTED NUMERICAL AND STATISTICAL METHODS

CODE & NO.	COURSE OUTCOME
TBSC301CO1	UNDERSTANDING AND LEARNING OF NUMERICAL METHODS FOR NUMERICAL ANALYSIS.
TBSC301CO2	UNDERSTANDING THE IMPLEMENTATION OF NUMERICAL METHODS USING A COMPUTER.
TBSC301CO3	LEARNING OF TRACING ERRORS IN NUMERICAL METHODS AND ANALYZE AND PREDICT IT.
TBSC301CO4	LEARNING OF APPLICATION OF STATISTICAL METHODS.

TBSC 302- PRACTICAL COMPUTER ORIENTED NUMERICAL AND STATISTICAL METHODS

CODE & NO.	COURSE OUTCOME
TBSC302CO1	SOLVE ALGEBRAIC EQUATIONS USING DIFFERENT METHODS UNDER DIFFERENT PARAMETERS.
TBSC302CO2	BE FAMILIAR WITH NUMERICAL INTEGRATION AND DIFFERENTIATION
TBSC302CO3	ANALYZE STATISTICAL DATA USING MEASURES OF CENTRAL TENDENCY AND DISPERSION.
TBSC302CO4	CALCULATE AND INTERPRET THE METHODS OF CORRELATION AND REGRESSION ANALYSIS.

TBSC401-DATA STRUCTURE & PROGRAMMING LANGUAGE USING C++

CODE & NO.	COURSE OUTCOME
TBSC401CO1	VARIOUS DATA STRUCTURE OPERATIONS
TBSC401CO2	ARRAYS, LINKED LIST, STACK & QUEUE
TBSC401CO3	UNDERSTAND AND IMPLEMENT SEARCHING AND SORTING TECHNIQUES
TBSC401CO4	DEVELOP FILE INPUT/OUTPUT OPERATIONS AND FILE MANIPULATION IN C++

TBSC402- PRACTICAL DATA STRUCTURE & PROGRAMMING LANGUAGE USING C++

CODE & NO.	COURSE OUTCOME
TBSC402CO1	UNDERSTAND DATA STRUCTURES STACK, QUEUE, LINKED LIST STACK AND QUEUE
TBSC402CO2	CHOOSE A DATA STRUCTURES FOR REAL TIME APPLICATIONS.
TBSC402CO3	DEVELOP KNOWLEDGE /CODING SKILL TO IMPLEMENT DIFFERENT SORTING AND SEARCH METHODS.
TBSC402CO4	DESIGN AND DEVELOP PROGRAMS USING VARIOUS DATA STRUCTURES.

TBSC501- DATA BASE MANAGEMENT SYSTEM & ORACLE

CODE & NO.	COURSE OUTCOME
TBSC501CO1	DEMONSTRATE THE BASIC ELEMENTS OF A RELATIONAL DATABASE MANAGEMENT SYSTEM.
TBSC501CO2	IDENTIFY THE DATA MODELS FOR RELEVANT PROBLEMS.
TBSC501CO3	DESIGN ENTITY RELATIONSHIP AND CONVERT ENTITY RELATIONSHIP DIAGRAMS INTO RDBMS AND FORMULATE SQL QUERIES ON THE RESPECT DATA INTO RDBMS AND FORMULATE SQL QUERIES ON THE DATA.
TBSC501CO4	DEMONSTRATE THEIR UNDERSTANDING OF KEY NOTIONS OF QUERY EVALUATION AND OPTIMIZATION TECHNIQUES

TBSC502- DATA BASE MANAGEMENT SYSTEM & ORACLE(PRACTICAL)

CODE & NO.	COURSE OUTCOME
TBSC502CO1	ABILITY TO DESIGN AND IMPLEMENT A DATABASE SCHEMA FOR GIVEN PROBLEM.
TBSC502CO2	APPLY THE NORMALIZATION TECHNIQUES FOR DEVELOPMENT OF APPLICATION SOFTWARE TO REALISTIC PROBLEMS.
TBSC502CO3	ABILITY TO FORMULATE QUERIES USING SQL DML/DDI/DCL COMMANDS
TBSC502CO4	ABILITY TO DESIGN PROGRAM USING PL SQL

TBSC601 BASICS OF INTERNET TECHNOLOGIES	
CODE & NO.	COURSE OUTCOME
TBSC601CO1	ANALYZE A WEB PAGE AND IDENTIFY ITS ELEMENTS AND ATTRIBUTES
TBSC601CO2	CREATE WEB PAGES USING XHTML AND CASCADING STYLE SHEETS.
TBSC601CO3	BUILD DYNAMIC WEB PAGES USING JAVASCRIPT (CLIENT SIDE PROGRAMMING).
TBSC601CO4	CREATE XML DOCUMENTS AND SCHEMAS.

TBSC602 PRACTICAL BASICS OF INTERNET TECHNOLOGIES	
CODE & NO.	COURSE OUTCOME
TBSC602CO1	PRACTICE ON BASIC HTML
TBSC602CO2	DESIGNING WEB PAGES USING CSS
TBSC602CO3	ONLINE APPLICATION AND FORMS
TBSC602CO4	DEVELOPING WEBSITE

Mapping PSO with Course Outcome

PSO	CO
PSOUGBSC01	TBSC101CO1, TBSC101CO2, TBSC101CO3, TBSC101CO4, TBSC401CO1, TBSC401CO2, TBSC401CO3, TBSC401CO4, TBSC601CO1, TBSC601CO2,, TBSC601CO3, TBSC601CO4
PSOUGBSC02	TBSC101CO2, TBSC601CO2
PSOUGBSC03	TBSC101CO1, TBSC101CO3, TBSC602CO2
PSOUGBSC04	TBSC101CO4, TBSC402CO1, TBSC602CO1
PSOUGBSC05	TBSC101CO3, TBSC602CO1
PSOUGBSC06	TBSC101CO4, TBSC401CO3, TBSC601CO3
PSOUGBSC07	TBSC401CO1, TBSC401CO2, TBSC401CO3, TBSC401CO4, TBSC601CO1, TBSC601CO2,, TBSC601CO3, TBSC601CO4

Programme Offered:
Diploma in Computer Applications

Programme Specific Outcomes

S.no.	Course Code	Subject Name
1.	TDCA101	Information Technology and Operating System
2.	TDCA 102	PC Computing–I
3.	TDCA 201	Database Management System
4.	TDCA 202	PC Computing–II

PSO Code	Programme Specific Outcome
PSOUGDCA01	The Goal of Program to prepare basic computer Knowledge and
PSOUGDCA02	Operational proficiency.
PSOUGDCA03	Analyze the System and applications for general purpose.
PSOUGDCA04	Understanding different hardware & software specification.
PSOUGDCA05	Understanding application of Different software needed for industrial areas.
PSOUGDCA07	To get basic software and hardware knowledge.
PSOUGDCA08	To utilize the techniques, skills & basic programming tools, software development practice.

Course Outcomes

TDCA101 Information Technology & Operating System

Code & No.	Course Outcome
TDCA101CO1	Identify of input and output devices of computers
TDCA101CO2	Utilise the functioning of various components of computer system
TDCA101CO3	Defining the role of Operating system
TDCA101CO4	Preparing documents presentations spreadsheets using MS Office

TDCA202 PC Computing-II

Code & No.	Course Outcome
TDCA202CO1	Understand the basic of MS EXCEL
TDCA202CO2	Analyzing data using Pivot Tables and Pivot Charts.
TDCA202CO3	Examine database concepts and explore the Microsoft Office Access environment
TDCA202CO4	Designing Forms Build complex forms in design view using different form elements. Build forms of the type: Main/Sub form and query-based

TDCA101 Database management System

Code & No.	Course Outcome
TDC201CO1	Describe major components of DBMS and their functions.
TDCA201CO2	Write queries in relational algebra / SQL.
TDCA201CO3	Describe the notions of indexes, views, constraints and transactions.
TDCA201CO4	Model an application's data requirements using conceptual modelling tools

Code & No.	Course Outcome
TDC102CO1	Using computer to improve existing skills and learn new skills.
TDCA102CO2	Performing basic editing functions, formatting text, copy and moving objects and text.
TDCA102CO3	Applicable knowledge and uses of accepted business style formatting conventions.
TDCA102CO4	Create slide presentations that include text, graphics, animation, and transitions.

Mapping PSO with Course Outcome(DCA)

PSO Code	CO
PSOUGDCA01	TDCA101CO1,TDCA101CO2, TDCA101CO3, TDCA102CO1
PSOUGDCA02	TDCA101CO4,TDCA102CO1, TDCA102CO2, TDCA102CO3, TDCA102CO4,TDCA202CO1,TDCA202CO2,TDCA202CO4
PSOUGDCA03	TDCA201CO2, TDCA201CO4,TDCA102CO2, TDCA102CO3
PSOUGDCA04	TDCA101CO1, TDCA101CO2,TDCA101CO4 ,TDCA202CO3,TDCA202CO1,TDCA202CO2,TDCA202CO4
PSOUGDCA05	TDCA101CO4,TDCA202CO1,TDCA202CO3
PSOUGDCA07	TDCA101CO1, TDCA101CO2,TDCA101CO3,TDCA101CO4, TDCA202CO1,TDCA202CO3, TDCA102CO4
PSOUGDCA08	TDCA201CO2, TDCA201CO4 ,TDCA102CO3,TDCA102CO4

Programme and Course Outcomes
Department of Economics

Programme Offered:
BACHELOR OF SCIENCES (B.Sc.) IN ECONOMICS
PROGRAM SPECIFIC OUTCOMES

PSO No.	PROGRAM SPECIFIC OUTCOMES
PSOUGBS01	Identify and comprehend economic theories and Economic Systems
PSOUGBS02	Analyze the statistical and mathematical skills
PSOUGBS03	Formulate economic policies to solve real life problems
PSOUGBS04	Develop critical thinking and actions among students
PSOUGBS05	Ensure Social interaction by way of economic surveys and outreach programs
PSOUGBS06	Demonstrate and extend effective communication skills
PSOUGBS07	Realize the importance of ICT enabled curriculum and E-learning
PSOUGBS08	Understand the environmental issues and demonstrate its sustainability
PSOUGBS09	Discover value ethics and ensure effective citizenship
PSOUGBS10	Acquire self-directed and life-long learning
PSOUGBS11	Determine research aptitude to relate with the dynamic world.

COURSE OUTCOMES

BSE101: MICRO-ECONOMICS

CO No.	COURSE OUTCOMES
BSE101CO01	Understand micro-economic terms, concepts and theories.
BSE101CO02	Analyze various concepts of demand and supply
BSE101CO03	Describe various laws and theories of cost, production and revenue
BSE101CO04	Critically examine various market forms
BSE101CO05	Evaluate various theories of distribution

DESCRIPTION OF CODE:

BSE101CO01: Bachelor of Sciences (Economics) of first semester Course Outcome 01

BSE102: QUANTITATIVE TECHNIQUES

CO No.	COURSE OUTCOMES
BSE102CO01	Understand simultaneous linear and quadratic equations
BSE102CO02	Analyze elements of analytical geometry and set theory
BSE102CO03	Differentiate constant and a variable
BSE102CO04	Critically examine the economic applications of the functions and classify the functions
BSE102CO05	Evaluate and apply the use of derivatives and functions in real life

BSE103: MATHEMATICS
(ALGEBRA and CALCULUS AND TRIGONOMETRY)

CO No.	COURSE OUTCOMES
BSE103CO01	Understand real life applications of matrices to a system of linear equations and understand real number system
BSE103CO02	Analyze the characteristic and quadratic equation of matrices and understand hyperbolic functions
BSE103CO03	Critically examine congruent reduction of matrices and applications of De-Moivre's theorem.
BSE103CO04	Define properties of definite, semi-definite and indefinite real quadratic forms
BSE103CO05	Evaluate relation between roots and coefficients of polynomial equation in one variable and solution to cubic equations. Demonstrate exponential and logarithmic functions and expansion of trigonometric functions
BSE103CO06	Understand circular and hyperbolic functions

BSE201: MACRO-ECONOMICS

CO No.	COURSE OUTCOMES
BSE201CO01	Differentiate between Micro and Macro Economics
BSE201CO02	Discuss Consumption function and concept of Multiplier
BSE201CO03	Determine Income and Employment Models
BSE201CO04	Discover role and functions of Money
BSE201CO05	Examine causes and cures of Inflation and Fiscal and Monetary Policy

DESCRIPTION OF CODE:

BSE201CO01: Bachelor of Sciences (Economics) of second semester Course Outcome 01

BSE202: QUANTITATIVE TECHNIQUES

CO No.	COURSE OUTCOMES
BSE202CO01	Understand the scope, significance, limitations of economics.
BSE202CO02	Representation of data through various graphical methods.
BSE202CO03	Compute various concepts of measures of central tendency
BSE202CO04	Compute and relate various concepts of correlation and regression
BSE202CO05	Understand and analyze various aspects of index numbers and time series

BSE203: MATHEMATICS
(CALCULUS AND DIFFERENTIAL EQUATIONS and CALCULUS)

CO No.	COURSE OUTCOMES
BSE203CO01	Understand asymptotes, convexity and concavity, point of inflexion, curvature and tracing of curves
BSE203CO02	Integrate hyperbolic functions
BSE203CO03	Generalize fundamental theorem of integral calculus, quadrature and rectification
BSE203CO04	Interpret Exact differential equations, First order and higher degree equations solvable for x,y,p
BSE203CO05	Formulate linear differential equations with constant and variable coefficients
BSE203CO06	Calculate limit and continuity of function of two variables.

BSE203CO07	Evaluate partial derivatives and differentiation of real-valued function of two variables.
BSE203CO08	Calculate Envelops, Evolutes, Maxima and Minima
BSE203CO09	Application to evaluation of area, volume, surface of solids of revolutions

BSE301: INDIAN ECONOMY

CO No.	COURSE OUTCOMES
BSE301CO01	Analyze the nature and importance of Agriculture
BSE301CO02	Estimate performance, role and problems of public and private sector
BSE301CO03	Evaluate Recent foreign trade policy and BOP problem
BSE301CO04	Identify the features of population growth in India and major problems of the Economy
BSE301CO05	Specify the objectives of latest five-year plans and functions of NITI Ayog

DESCRIPTION OF CODE:

BSE301CO01: Bachelor of Sciences (Economics) of third semester Course Outcome 01

BSE302: QUANTITATIVE TECHNIQUES

CO No.	COURSE OUTCOMES
BSE302CO01	Identify maxima and minima of partial functions
BSE302CO02	Classify partial derivatives and higher order partial derivatives
BSE302CO03	Compute and apply integration to various consumer and producer theory
BSE302CO04	Explain matrices and its types
BSE302CO05	Assess and apply applications of matrices in economics
BSE302CO06	Formulate linear programming problems using graphical and simplex method
BSE302CO07	Understand and apply input output models in the economy

BSE303: MATHEMATICS (ANALYSIS and ANALYTICAL GEOMETRY)

CO No.	COURSE OUTCOMES
BSE303CO01	Describe sequence, limits of sequences, bounded and monotonic sequences.
BSE303CO02	Understand comparison test, Cauchy's integral test, Ratio test, Cauchy's root test. Logarithmic test, Cauchy condensation test, Gauss test, Alternating series, Leibnitz's test.
BSE303CO03	Evaluate the existence of Riemann integrability of continuous functions and of monotone functions
BSE303CO04	Compute Existence and convergence of improper integrals, Beta and Gamma Functions
BSE303CO05	Operate shifting of origin and rotation of axes
BSE303CO06	Generalize Parabola, Hyperbola, Ellipse and Sphere
BSE303CO07	Identify curves represented by second degree equation
BSE303CO08	Understand Intersection of three planes and intersection of a line and a sphere

BSE401: INTERNATIONAL ECONOMICS AND PUBLIC FINANCE

CO No.	COURSE OUTCOMES
BSE401CO01	Distinguish between internal and external trade
BSE401CO02	Examine Hecksher, Ohlin theories and terms of trade
BSE401CO03	Illustrate rationale of free trade and protection policy in less developed area

BSE401CO04	Determine the components of BOP and methods to correct adverse BOP
BSE401CO05	Discuss the nature and scope of public finance
BSE401CO06	Classify the features and canons of taxation system and state the objectives of public debt

DESCRIPTION OF CODE:

BSE401CO01: Bachelor of Sciences (Economics) of fourth semester Course Outcome 01

BSE402: QUANTITATIVE TECHNIQUES

CO No.	COURSE OUTCOMES
BSE402CO01	Estimate and apply partial and multiple correlation
BSE402CO02	Classify between linear and non-linear regression
BSE402CO03	Compute probability using additive and multiplicative laws
BSE402CO04	Derive properties of Binomial, Poisson, Normal, Beta and Gamma Distributions
BSE402CO05	Review various concepts of sampling
BSE402CO06	Identify features of different types of samples

BSE403: MATHEMATICS

(STATICS AND VECTOR CALCULUS and SOLID GEOMETRY)

CO No.	COURSE OUTCOMES
BSE403CO01	Surfaces represented by general Second-Degree equation
BSE403CO02	Differentiate between composition and resolution of forces and learn Equilibrium of coplanar forces
BSE403CO03	Recall Laws of friction, center of gravity
BSE403CO04	Compute vector differentiation, identity and integration.
BSE403CO05	Compute Gradient, divergence and apply curl operators
BSE403CO06	Recall theorems and problems of Gauss, Green and Stokes
BSE403CO07	Differentiate kinds of cylinders and Understand Cone
BSE403CO08	Calculate equation of ellipsoid, hyperboloid and paraboloid in standard forms

BSE501: ECONOMICS OF DEVELOPMENT

CO No.	COURSE OUTCOMES
BSE501CO01	Define economic development and underdevelopment
BSE501CO02	Describe the concept of social and technological dualism
BSE501CO03	Demonstrate Rostow's theory of growth and strategies of economic development
BSE501CO04	Analyze the various models of growth
BSE501CO05	Integrate the need, objective, types, problems and role of planning in underdeveloped countries

DESCRIPTION OF CODE:

BSE501CO01: Bachelor of Sciences (Economics) of fifth semester Course Outcome 01

BSE502: QUANTITATIVE TECHNIQUES

CO No.	COURSE OUTCOMES
BSE502CO01	Understand the concepts of estimation, likelihood and hypothesis testing
BSE502CO02	Derive properties of Z, T, F and Chi distribution
BSE502CO03	Test the significance of Z, T, F and Chi distribution
BSE502CO04	Formulate and apply techniques of ANOVA

**BSE503: MATHEMATICS
(DYNAMICS and NUMBER THEORY)**

CO No.	COURSE OUTCOMES
BSE503CO01	Understand rectilinear motion, Newton's laws of motion and motion of two particles connected by a string
BSE503CO02	Compute motion along a smooth inclined plane, Variable acceleration and Simple Harmonic Motion
BSE503CO03	Define velocity, acceleration, projectiles and Oscillations
BSE503CO04	Describe work, Power and Energy
BSE503CO05	Examine the division algorithm, Euclidean algorithm and fundamental theorem of algorithm, greatest integer function, Euler's Phi function, Mobius function and Inversion formula
BSE503CO06	Analyze Chinese remainder theorem, Fermat's theorem, Euler's theorem and Pseudoprimes Wilson's theorem

BSE601: QUANTITATIVE METHODS FOR ECONOMISTS

CO No.	COURSE OUTCOMES
BSE601CO01	Identify the concept of limits and continuity and principle of maxima/minima
BSE601CO02	Explain matrices and its properties
BSE601CO03	Examine the measures of central tendency
BSE601CO04	Contrast the concepts and methods of Interpolation
BSE601CO05	Relate the measure of skewness and kurtosis

DESCRIPTION OF CODE:

BSE601CO01: Bachelor of Sciences (Economics) of sixth semester Course Outcome 01

BSE602: QUANTITATIVE TECHNIQUES

CO No.	COURSE OUTCOMES
BSE602CO01	Infer econometrics, simple linear regression method and understand its application
BSE602CO02	Demonstrate general linear regression model, Gauss Markov theorem and test its significance
BSE602CO03	Identify econometric problems of Heteroscedasticity and Multi-collinearity in the Regression Analysis
BSE602CO04	Review auto-Correlation in the Regression Analysis

**BSE603: MATHEMATICS
(LINEAR ALGEBRA and NUMERICAL ANALYSIS)**

CO No.	COURSE OUTCOMES
BSE603CO01	Define groups, rings and fields with examples
BSE603CO02	Recognize vector space, subspaces with examples
BSE603CO03	Demonstrate basis of a vector space and existence theorem for basis
BSE603CO04	Understand the dimension of sum of two subspaces and Quotient space and its dimension
BSE603CO05	Define linear transformation, Isomorphism and Isomorphic spaces.
BSE603CO06	Interpret matrix of a linear transformation
BSE603CO07	Understand Error generation, propagation, error estimation and error bounds
BSE603CO08	Utilize Solution to linear and non- linear system of equations

BSE603CO09	Infer Interpolation and Extrapolation and Understand Different numerical integration methods
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MAPPING

PO's	CO's
PSOUGBS01	BSE101CO01- BSE101CO05, BSE102CO04, BSE201CO01- BSE201CO05, BSE301CO01- BSE301CO05, BSE401CO01- BSE401CO06, BSE501CO01- BSE501CO05
PSOUGBS02	BSE103CO04, BSE103CO05, BSE103CO06, BSE202CO02, BSE202CO03, BSE202CO04, BSE202CO05, BSE203CO01- BSE203CO09, BSE303CO01- BSE303CO08, BSE402CO01- BSE402CO06, BSE403CO01- BSE403CO08, BSE502CO01- BSE502CO04, BSE503CO01- BSE503CO06, BSE601CO01- BSE601CO05, BSE602CO01- BSE602CO04, BSE603CO01- BSE603CO09
PSOUGBS03	BSE101CO02, BSE101CO03, BSE101CO04, BSE201CO03, BSE201CO04, BSE301CO01- BSE301CO05, BSE302CO07, BSE401CO01, BSE401CO05, BSE401CO06, BSE501CO05
PSOUGBS04	BSE101CO04, BSE102CO04, BSE103CO03, BSE201CO05, BSE203CO05, BSE301CO03, BSE302CO07, BSE303CO08, BSE402CO01, BSE501CO05, BSE503CO05, BSE503CO06, BSE602CO01, BSE603CO09
PSOUGBS05	BSE101CO02, BSE101CO03, BSE101CO04, BSE102CO04, BSE201CO03, BSE201CO04, BSE201CO05, BSE201CO06, BSE202CO01, BSE301CO01- BSE301CO05, BSE401CO01, BSE401CO03, BSE401CO06, BSE501CO04
PSOUGBS06	BSE101CO03, BSE201CO01, BSE301CO02, BSE301CO06, BSE401CO01, BSE401CO05
PSOUGBS07	BSE101CO05, BSE102CO04, BSE201CO03, BSE201CO04, BSE301CO02, BSE501CO04
PSOUGBS08	BSE101CO01, BSE201CO04, BSE601CO03, BSE501CO05, BSE302CO07, BSE301CO01, BSE301CO02, BSE301CO03, BSE301CO04, BSE301CO05
PSOUGBS09	BSE101CO01, BSE101CO02, BSE101CO03, BSE101CO04, BSE101CO05, BSE102CO05, BSE201CO04, BSE201CO05, BSE301CO01, BSE301CO02, BSE301CO03, BSE301CO04, BSE301CO05, BSE501CO05, BSE501CO01
PSOUGBS10	BSE101CO02, BSE101CO03, BSE101CO04, BSE102CO05, BSE103CO01, BSE201CO03, BSE201CO04, BSE202CO01, BSE202CO02, BSE203CO07, BSE203CO09, BSE301CO04, BSE302CO06, BSE302CO07, BSE401CO01, BSE401CO03, BSE402CO05, BSE501CO01, BSE501CO05, BSE503CO03, BSE503CO04
PSOUGBS11	BSE101CO01, BSE102CO04, BSE301CO04, BSE302CO06, BSE302CO07, BSE302CO05, BSE303CO02, BSE401CO06, BSE402CO02, BSE501CO01, BSE501CO02, BSE502CO01, BSE502CO03, BSE502CO04, BSE503CO05, BSE603CO09

Programme and Course Outcomes
Department of Sciences

Name of Programme: B.SC. Medical
Program-Specific Outcomes

PSO NO.	Program Specific Outcomes
PSO-UG-BSCM01	Develop critical thinking on various topics related with the pure sciences.
PSO-UG-BSCM02	Develop a foundation for research methodologies and foster a commitment to lifelong learning, keeping up-to-date with advancements in medical sciences and technologies.
PSO-UG-BSCM03	Acquire the abilities in handling scientific equipments, scheduling and executing the experiments in laboratories and to derive logical conclusions from the scientific experiments
PSO-UG-BSCM04	Gain insights into healthcare systems, healthcare policies and public health concepts to address healthcare challenges and contribute to community health improvement.
PSO-UG-BSCM05	Empower them with insights into advancements in various science disciplines and demonstrate how an interdisciplinary approach catalyzes innovation, fostering more effective and sustainable solutions for development.
PSO-UG-BSCM06	The program endeavors to cultivate a scientific aptitude, empowering individuals to tackle life's challenges with open-mindedness, apply critical thinking and nurture curiosity.
PSO-UG-BSCM07	Empower individuals to independently apply their acquired knowledge, cultivating self-reliance and self-sufficiency. This will boost self-esteem, fuel perseverance, particularly in challenging situations, and foster a positive attitude towards future challenges.
PSO-UG-BSCM08	Acquire practical skills in laboratory techniques, clinical procedures and diagnostic methodologies essential for medical research and practice.
PSO-UG-BSCM09	Demonstrate ethical behavior, professionalism and adhere to ethical standards in medical practice and research, considering the moral, social and legal aspects of healthcare.
PSO-UG-BSCM10	Equip students with the necessary skills and knowledge to pursue advanced studies in research, in allied health sciences or enter the healthcare industry for diverse career opportunities.

Name of Programme:
B.SC. Non-Medical
Program-Specific Outcomes

PSO NO.	Program Specific Outcomes
PSO-UG-BSCNM01	Acquire advanced problem-solving skills to apply theoretical knowledge in solving complex and practical problems across physics, chemistry, and mathematics.
PSO-UG-BSCNM02	Cultivate proficiency in laboratory techniques and experimental methodologies, emphasizing accurate observation, data analysis, and the application of scientific methods.
PSO-UG-BSCNM03	Develop critical thinking skills to assess, evaluate, and interpret scientific information, promoting analytical reasoning in diverse scientific contexts.
PSO-UG-BSCNM04	Enhance communication skills and collaborative abilities, enabling effective interaction with peers and the dissemination of scientific knowledge.
PSO-UG-BSCNM05	Acquire knowledge about developments in any science subject and employ an interdisciplinary approach to offer improved solutions and generate new ideas for sustainable development.
PSO-UG-BSCNM06	Recognize the importance of lifelong learning and stay updated with advancements in the field.
PSO-UG-BSCNM07	Foster scientific aptitude, encouraging an open-minded, critical and curious mindset to address all aspects related to life.
PSO-UG-BSCNM08	Apply acquired knowledge and skills to adapt to evolving scientific challenges, demonstrating the versatility to address problems beyond the confines of individual disciplines.
PSO-UG-BSCNM09	Demonstrate ethical behavior, professionalism and adhere to ethical standards in medical practice and research, considering the moral, social and legal aspects of healthcare.
PSO-UG-BSCNM10	Prepare students for further studies or careers in scientific research, engineering, technology, or related fields by providing a solid foundation in the core principles and methodologies of physics, chemistry, and mathematics.

Course: PHYSICS
COURSE OUTCOMES

TPHY 101CO: MECHANICS SEMESTER 1st COURSE OUTCOMES

TPHY 101: MECHANICS

CODE & No.	Course Outcomes
TPHY101CO1	Apply Newton's laws to solve diverse mechanical problems.
TPHY101CO2	Classify different coordinate systems and apply the knowledge to find various Physical quantities in different co-ordinate system
TPHY101CO3	Understand two body problem into one body problem using concept of reduced mass.
TPHY101CO4	Demonstrate proficiency in solving problems involving forces, energy, and momentum.
TPHY101CO5	Understand motion of a body under central forces and apply the concept to Planetary motion.
TPHY101CO6	Interpret the principles of kinematics and dynamics in practical scenarios.
TPHY101CO7	Predict and examine the outcomes of collisions and interactions between objects.
TPHY101CO08	Understand motion of a body under central forces and apply the concept to Planetary motion
TPHY101CO09	Understand the concept of inertial/ non-inertial frames and apply the concept to explain some Phenomenon in daily life.
TPHY101CO10	Understand elastic collisions in lab and C.M systems and Apply the concept to understand Rutherford scattering
TPHY101CO11	Apply the concept to understand Rutherford scattering
TPHY101CO12	Understand the concept of precession and its applications as elementary gyroscope.

TPHY 102: Electricity and Magnetism

CODE & No.	Course Outcomes
TPHY102CO1	Recall the basic ideas of vector calculus and will be able to apply it to vector fields.
TPHY102CO2	Understand the concept and Evaluate Electric field and potential difference due to different types of distribution of charges.
TPHY102CO3	Transform the Electric and magnetic fields and related quantities in different inertial fields.
TPHY102CO4	Understand and Apply the concept of electrical images to find electric field
TPHY102CO5	Classify the materials on the basis of their magnetic properties and their behaviour in the magnetic field.
TPHY102CO6	Explain electromagnetic phenomena using Maxwell's equations.
TPHY102CO7	Evaluate and Predict the behaviour of charged particles.
TPHY102CO8	Calculate electric and magnetic fields in different configurations.

TPHY 201: Relativity and Electromagnetism

CODE & No.	Course Outcomes
TPHY201CO1	Understand the special theory of relativity
TPHY201CO2	Apply Lorentz transformations to describe relativistic effects.
TPHY201CO3	Understand the concept of Minkowski space and four vector formalism
TPHY201CO4	Understand the concept of coupling of electrical circuits and their applications
TPHY201CO5	Analyze electromagnetic waves and their propagation in various mediums.
TPHY201CO6	Examine the consequences of relativistic effects on concepts like time dilation and length contraction.
TPHY201CO7	Describe the behaviour of charged particles in electromagnetic fields and their interactions.
TPHY201CO8	Interpret the connection between space, time, and gravity as described by Einstein's field equations.
TPHY201CO9	Evaluate experimental evidence supporting the predictions of relativity.

TPHY 202: Vibration and Waves

CODE & No.	Course Outcomes
TPHY202CO1	Recall the concept of simple Harmonic Motion and compare free, damped and forced oscillators.
TPHY202CO2	Apply the concept of damped and forced oscillators to electrical devices.
TPHY202CO3	Evaluate the normal mode of oscillations for coupled oscillators.
TPHY202CO4	Understand and Apply the concept of impedance matching for propagation of wave through different media.
TPHY202CO5	Understand the basic theory of Electromagnetic waves and their propagation through free space and some medium
TPHY202CO6	Calculate damping coefficients using logarithmic decrement and relaxation time methods.
TPHY202CO7	Demonstrate and explain superposition principles in oscillatory systems.
TPHY202CO8	Analyze displacement, velocity, and phase variations with driving force frequency.
TPHY202CO9	Demonstrate standing wave formation and energy distribution in a fixed-length string.
TPHY202CO10	Analyze reflection, transmission, and energy coefficients at boundaries.

TPHY 301: STATISTICAL PHYSICS & THERMODYNAMICS

CODE & No.	Course Outcomes
TPHY301CO1	Understand about the basic laws of statistical physics and its scope.
TPHY301CO2	Explain the Concept of microstate, macrostate and Phase space.
TPHY301CO3	Compare the basic approaches of Maxwell Boltzmann, Bose Einstein and Fermi Dirac statistics.
TPHY301CO4	Learn about the concept of entropy and its application to explain various natural phenomena.
TPHY301CO5	Develop Maxwell Thermodynamics relations and their applications in different processes.
TPHY301CO6	Demonstrate the effects of constraints on a system and the equilibrium state of dynamic systems.
TPHY301CO7	Define phase space and describe its division into elementary cells.
TPHY301CO8	Apply the laws of Thermodynamics to reversible and irreversible processes.
TPHY301CO9	Discuss the heat death of the universe and evaluate its implications.
TPHY301CO10	Discuss concepts of probability and distinguishability in particle distributions.

TPHY 302: OPTICS AND LASERS

CODE & No.	Course Outcomes
TPHY302CO1	Learn about interference of light by division of amplitude and wave front.
TPHY302CO2	Apply the concept of interference of light in non-reflecting thin films and optical devices.
TPHY.302CO3	Understand concept of polarization and apply it to produce and analyze polarized light
TPHY302CO4	Explain about construction and application of Nicol prism, Quarter and Half wave plate.
TPHY302CO5	Understand the fundamentals of Laser and learn about various processes involved in LASER action
TPHY302CO6	Discuss the principle, construction and working of different lasers: Ruby laser, Nd:YAG laser, He-Ne and Carbon dioxide laser.
TPHY302CO7	Demonstrate Young's double-slit experiment and determine conditions for sustained interference patterns.
TPHY302CO8	Calculate the resolving power of a telescope, diffraction grating, and microscope.
TPHY302CO9	Utilize quarter and half-wave plates in polarizing light.
TPHY302CO10	Derive Einstein relations and explain the concept of stimulated emission and population inversion.

TPHY 401: QUANTUM MECHANICS

CODE & No.	Course Outcomes
TPHY401CO1	Understand about the formalism of Wave mechanics, Normalization and Probability interpretation of wave function.
TPHY401CO2	Explain the concept of wave particle duality.
TPHY401CO3	Illustrate the applications of Uncertainty principle.
TPHY401CO4	Define the fundamental postulates of wave mechanics.
TPHY401CO5	Apply the uncertainty principle and understand the Gaussian wave packet.
TPHY401CO6	Calculate expectation values and understand probability current conservation.
TPHY401CO7	Understand Hermitian operators and solve equations of motion using quantum mechanics.
TPHY401CO8	Apply Schrödinger's wave equation to describe a free particle and a particle subject to forces.
TPHY401CO9	Solve the Schrödinger equation for a spherically symmetric potential, specifically the hydrogen atom.
TPHY401CO10	Calculate eigen values of momentum, energy, and understand degeneracy.

TPHY 402: ATOMIC AND MOLECULAR SPECTRA

CODE & No.	Course Outcomes
TPHY402CO1	Understand the one electron atomic spectra, and explain their fine structure
TPHY402CO2	Learn concept of Vector model of atom
TPHY402CO3	Understand the concept of L-S, J-J Coupling schemes. Lande's-g factor will be introduced to them.
TPHY402CO4	Explain spectra of many electron systems e.g. of Helium and Alkaline Earth Spectra.
TPHY402CO5	Learn about Production of X-rays and their Spectra.
TPHY402CO6	Describe Rotational, Vibrational, electronic energy levels and spectra of molecules.
TPHY402CO7	Analyze spectral series and Represent spectral lines using terms.
TPHY402CO8	Examine examples of one-electron systems, including the anomalous Zeeman effect.
TPHY402CO9	Discuss LS coupling and apply selection rules.
TPHY402CO10	Explore molecular bonding and interpret molecular spectra.
TPHY402CO11	Introduce Raman spectra and explain its fundamentals.

TPHY 501: CONDENSED MATTER PHYSICS

CODE & No.	Course Outcomes
TPHY501CO1	Understand about the basics of crystal structure and symmetries operation in two and three dimensional crystals.
TPHY501CO2	Demonstration of experimental method for studies of crystalline solids
TPHY501CO3	Understand various reciprocal lattice, construction of Brillouin Zone in Two and three dimensions.
TPHY501CO4	Explain the concept of Phonons and calculate the density of modes of vibrations.
TPHY501CO5	Understand about the basic concepts of band theory and compare between conductors, semi-conductors and insulator using Kronig-Penny model.
TPHY501CO6	Identify two-dimensional Bravais lattices and Classify three-dimensional Bravais lattices.
TPHY501CO7	Solve Laue equations and Analyze reciprocal lattices of simple cubic (SC), body-centered cubic (BCC), and face-centered cubic (FCC).
TPHY501CO8	Apply Einstein and Debye models of specific heat.
TPHY501CO9	Discuss the classification of materials into metals and insulators.
TPHY501CO10	Examine Fermi levels in intrinsic and extrinsic semiconductors.

TPHY 502: ELECTRONICS

CODE & No.	Course Outcomes
TPHY502CO1	Discuss about the junction diodes and their applications
TPHY502CO2	Explain about different transistors and the characteristics of their different configurations.
TPHY502CO3	Construct h-parameters and outline their use for amplifier analysis.
TPHY502CO4	Understand the concept of feedback and use of negative feedback in amplifiers.
TPHY502CO5	Apply Barkhausen criterion for sustained oscillations.
TPHY502CO6	Introduce and Outline the basic principles of Photonic devices (solar cell, photodiode, and LED).
TPHY502CO7	Design transistor biasing circuits and stabilize the operating point.
TPHY502CO8	Evaluate the amplifying action of transistors and compare different configurations.
TPHY502CO9	Design and Analyze LC oscillators (tuned collector, tuned base Hartley).
TPHY502CO10	Evaluate RC oscillators, including phase shift and Wein bridge configurations.

TPHY 601: RADIATION AND PARTICLE PHYSICS

CODE & No.	Course Outcomes
TPHY601CO1	List various types of accelerators used for accelerating the charge particles.
TPHY601CO2	Understand Large Hadron Collider, which is world's largest accelerator.
TPHY601CO3	Compare different modes of interaction of heavy charge particle with matter
TPHY601CO4	Learn how the incident particle loses its energy when it enters into the matter.
TPHY601CO5	Explain Bethe-Bloch formula which tells about the energy loss per unit length when a charged particle enters into the matter.
TPHY601CO6	Calculate stopping power and range of charged particles.
TPHY601CO7	Discuss the interaction of gamma rays with matter.
TPHY601CO8	Explain gas-filled detectors, including proportional and Geiger-Muller counters.
TPHY601CO9	Define accelerators and Differentiate between linear and cyclic accelerators.
TPHY601CO10	Classify particles into fermions and bosons and distinguish between particles and antiparticles.
TPHY601CO11	Outline the quark model and qualitatively discuss quarks.

TPHY 602: NUCLEAR PHYSICS

CODE & No.	Course Outcomes
TPHY602CO1	Recall about the constituents of nucleus and various properties of nucleus.
TPHY602CO2	Classify various modes of decay of radioactive nuclides and the laws governing the radioactive decay.
TPHY602CO3	Compare between different types of nuclear reactions, their reaction cross section and conservation laws followed by them.
TPHY602CO4	Explain different Nuclear models- Liquid drop model and shell model.
TPHY602CO5	Analyze the features of the binding energy versus mass number curve.
TPHY602CO6	Introduce the neutrino hypothesis and methods for its detection.
TPHY602CO7	Discuss radioactive series and displacement law, and Apply radioactive dating techniques.
TPHY602CO8	Calculate Q-value and interpret its physical significance.
TPHY602CO9	Categorize types of nuclear reactions and Calculate reaction cross-sections.
TPHY602CO10	Explain the concept of the compound nucleus and Describe level width.

Course Outcomes
CHEMISTRY
INORGANIC CHEMISTRY
(THEORY)
COURSE OUTCOMES

CODE & NO.	Course Outcomes
CHM-101-CO1	Illustrate Quantum mechanical approach to Atomic Structure, Periodic Properties, General characteristics of all the elements, their compounds with structure and preparation methods, chemical bonding.
CHM-101-CO2	Describe the relationship between the activities of elements and their location on the periodic table.
CHM-101-CO3	Explain trends and patterns in properties of elements within families.
CHM-101-CO4	Identify elements as metals, non-metals and metalloids.
CHM-101-CO5	Predict the geometries of different compounds
CHM-101-CO6	Draw the shapes and geometries of various molecules by using VSEPR Theory.
CHM-101-CO7	Understand the difference between valence band theory and molecular orbital theory.
CHM-101-CO8	Define the chemical bond and the cause of chemical bonding.
CHM-101-CO9	Discuss concepts of ionic solids and weak interactions
CHM-101-CO10	Relate the concept of lattice energy and Born-Haber cycle.

CHM-101-CO: Chemistry, Inorganic Chemistry –Course Outcomes

ORGANIC CHEMISTRY
(THEORY)
COURSE OUTCOMES

CODE & NO.	Course Outcomes
CHM-102-CO1	Understanding of nomenclature and classification of organic compounds
CHM-102-CO2	Illustrate concepts of Organic chemistry like – Reaction Mechanism, intermediates and attacking reagents etc.
CHM-102-CO3	Propose/write a mechanism for a given organic reaction.
CHM-102-CO4	Design experiments to determine reaction intermediates/mechanisms.
CHM-102-CO5	Predict the reactivity of organic compound from its structure
CHM-102-CO6	Enlist the rules for naming different organic compounds
CHM-102-CO7	Recognize mechanism for given chemical reaction.
CHM-102-CO8	Discuss preparation and properties of different functional Groups like Hydrocarbons, Haloalkanes and Aromatic compounds.
CHM-102-CO9	Recognize the basic practical skills for the synthesis of alkenes, alkynes, alkyl halides.
CHM-102-CO10	Demonstrate Understanding in Scenarios Involving Alkanes, Alkenes, Alkyl Halides, Dienes, and Arenes.

CHM-102-CO: Chemistry, Organic Chemistry –Course Outcomes

**INORGANIC CHEMISTRY
(THEORY)
COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
CHM-201-CO1	Explain s/p- block elements.
CHM-201-CO2	Characteristic properties of the s-block elements
CHM-201-CO3	Understanding of structure and properties of compounds of s/p-block
CHM-201-CO4	Define the concepts of acids and bases.
CHM-201-CO5	Explore basic chemistry of s- and p- block elements
CHM-201-CO6	Infer the general trends in the chemistry of P-block elements.
CHM-201-CO7	Discuss the anomalous properties of Boron and carbon.
CHM-201-CO8	Explain the fundamental concepts in coordination chemistry of <i>transition metals</i> .
CHM-201-CO9	Detailed study of specific compounds of <i>p block elements</i>
CHM-201-CO10	Described the oxidation state, magnetic behavior of transition elements.

CHM-202-CO: Chemistry, Inorganic Chemistry –Course Outcomes

**PHYSICAL CHEMISTRY
(THEORY)
COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
CHM-202-CO1	Explain about the various states of matter (Colloids, Gaseous, Liquid and solutions)
CHM-202-CO2	Derivate the equation of root mean square, average and most probable velocities.
CHM-202-CO3	Discuss the Maxwell distribution of molecular velocities.
CHM-202-CO4	<i>Interpreting the phase equilibrium in simple systems.</i>
CHM-202-CO5	Illustrate solutions and colligative properties.
CHM-202-CO6	State the terms gold number, emulsions.
CHM-202-CO7	Enlist the properties of colloids.
CHM-202-CO8	Discuss types of colloids and their properties and applications.
CHM-202-CO9	Determine the molar mass of an unknown solute by measuring the freezing point depression of a solution of this solute in a solvent as compared to the freezing point of the pure solvent.
CHM-202-CO10	Calculate changes in vapour pressure, melting point, and boiling point of solutions.

CHM-202-CO: Chemistry, Physical Chemistry – Course Outcomes

**PHYSICAL CHEMISTRY - II
(THEORY)
COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
CHM-301-CO1	Application of mathematical tools for chemistry
CHM-301-CO2	Explain basic concepts and Laws of Thermodynamics, Distribution Law, Chemical and Phase Equilibria.
CHM-301-CO3	Solving numerical problems of above topics.
CHM-301-CO4	Describe basic concepts of Thermodynamics.
CHM-301-CO5	Restate definition of system, surrounding, closed and open system, extensive and intensive properties.
CHM-301-CO6	Calculate absolute and gage pressure, and absolute temperature.
CHM-301-CO7	Evaluate changes in kinetic, potential, enthalpy and internal energy.
CHM-301-CO8	Improve the efficiency of a process for the transformation between energy and work.
CHM-301-CO9	Explain various regions and points (such as the triple point, the critical point) in a phase diagram.
CHM-301-CO10	Derive the Nernst distribution law.

CHM-301-CO: Chemistry, Physical Chemistry (II) – Course Outcomes

**ORGANIC CHEMISTRY - II
(THEORY)
COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
CHM-302-CO1	Explain modern aspects of stereochemistry
CHM-302-CO2	Illustrate synthesis and properties of some important class of organic compounds with mechanism
CHM-302-CO3	Explain organometallic and Heterocyclic compounds
CHM-302-CO4	Apply principles of stereochemistry to predict the three-dimensional arrangement of molecules.
CHM-302-CO5	Apply principles of stereochemistry to predict the three-dimensional arrangement of molecules.
CHM-302-CO6	Identify different types of isomerism, including structural, stereoisomerism, and conformational isomerism.
CHM-302-CO7	Classify alcohols, phenols, aldehydes, and ketones according to their functional groups.
CHM-302-CO8	Evaluate the impact of functional group identity on the physical and chemical properties of alcohols, phenols, aldehydes, and ketones.
CHM-302-CO9	Design experiments to distinguish between different functional groups within the given compound classes.
CHM-302-CO10	Differentiate the properties and reactivity of alcohols, phenols, aldehydes, and ketones.

CHM-302-CO: Chemistry, Organic Chemistry (II) – Course Outcomes

**INORGANIC CHEMISTRY - III
(THEORY)
COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
CHM-401-CO1	Explain advanced theories on coordination chemistry, structure, bonding and stereochemistry of important coordination compounds
CHM-401-CO2	Discuss redox behavior of Elements CO3.
CHM-401-CO3	Describe Non-Aqueous solvents, Chemistry of Lanthanides and actinides.
CHM-401-CO4	Brief the concepts of Bioinorganic Chemistry.
CHM-401-CO5	Analyze the role of coordination compounds in catalysis and biological systems.
CHM-401-CO6	Investigate the properties and applications of non-aqueous solvents in inorganic reactions.
CHM-401-CO7	Examine the chemistry of lanthanides and actinides, including their electronic configurations and properties.
CHM-401-CO8	Critique the role of coordination compounds in industrial processes and environmental applications.
CHM-401-CO9	Propose synthetic routes for the preparation of coordination compounds with specific properties.
CHM-401-CO10	Demonstrate the use of redox titrations and other analytical methods in determining oxidation states.

CHM-401-CO: Chemistry, Inorganic Chemistry (ii) – Course Outcomes

**ORGANIC CHEMISTRY - III
(THEORY)
COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
CHM-402-CO1	Discuss aspects of stereochemistry
CHM-402-CO2	Explain important class of Organic compounds with mechanism
CHM-402-CO3	Discuss organometallic compounds and their applications in organic synthesis.
CHM-402-CO4	Demonstrate the use of redox titrations and other analytical methods in determining oxidation states.
CHM-402-CO5	Examine the synthesis and reactions of ethers and epoxides in the context of organic chemistry.
CHM-402-CO6	Evaluate the reactivity of heterocyclic compounds in organic synthesis.
CHM-402-CO7	Propose synthetic routes for the preparation of carboxylic acids with specific functional groups.
CHM-402-CO8	Apply the principles of organometallic chemistry to catalyze and control organic reactions.
CHM-402-CO9	Demonstrate the synthesis and reactions of ethers and epoxides through experimental procedures.

CHM-402-CO10	Design strategies for the functionalization of carboxylic acids to introduce specific chemical moieties.
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CHM-402-CO: Chemistry, Organic Chemistry (III) – Course Outcomes

**INORGANIC CHEMISTRY - IV
(THEORY)
COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
CHM-501-CO1	Illustrate crystal field splitting in coordination complexes, their Stability, colour and magnetic properties and use of Magnetic moments for Interpretation of their structures.
CHM-501-CO2	Explain Electronic Transitions, Selection Rules and Term Symbols.
CHM-501-CO3	Analyze the basic concepts of Organometallic chemistry.
CHM-501-CO4	Evaluate the impact of ligand choice on the electronic properties of transition metal complexes.
CHM-501-CO5	Integrate the principles of organometallic chemistry into the design of novel catalytic processes.
CHM-501-CO6	Utilize computational methods to predict and analyze the electronic and magnetic properties of transition metal complexes.
CHM-501-CO7	Illustrate the Jahn-Teller effect and its consequences on the geometry of transition metal complexes.
CHM-501-CO8	Design experiments to investigate the magnetic properties of transition metal complexes.
CHM-501-CO9	Demonstrate the use of various spectroscopic methods to characterize transition metal complexes.
CHM-501-CO10	Propose mechanisms for magnetic interactions in multinuclear transition metal complexes.

CHM-501-CO: Chemistry, Inorganic Chemistry (IV) – Course Outcomes

**PHYSICAL CHEMISTRY - III
(THEORY)
COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
CHM-502-CO1	Explain Various Forms of electrochemical cells, conductance and related laws.
CHM-502-CO2	Describe the Nuclear reactions
CHM-502-CO3	Discuss Physical aspects of various branches of Spectroscopy.
CHM-502-CO4	Analyze electrochemical cells and their applications in various industries.
CHM-502-CO5	Examine the types of radiation and their interactions in nuclear processes.
CHM-502-CO6	Evaluate the environmental and health impacts of nuclear processes and radioactive materials.
CHM-502-CO7	Propose strategies for designing efficient electrochemical cells for specific applications.
CHM-502-CO8	Apply the Nernst equation to predict and interpret changes in electrode potential.
CHM-502-CO9	Demonstrate the use of various spectroscopic techniques for chemical analysis.

CHM-502-CO10	Design experiments to study nuclear decay and radiation properties.
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CHM-502-CO: Chemistry, Physical Chemistry (III) – Course Outcomes

ORGANIC CHEMISTRY – IV (THEORY)

COURSE OUTCOMES

CODE & NO.	COURSE OUTCOMES
CHM-601-CO1	Discuss Different spectroscopic methods of Analysis which includes UV, IR & NMR techniques.
CHM-601-CO2	Solving problems based on spectroscopy.
CHM-601-CO3	Illustrate basic concepts of Carbohydrates, Polymers, Organosulphur compounds, Amino acids, Proteins, RNA and DNA.
CHM-601-CO4	Examine the principles and instrumentation of absorption spectroscopy methods.
CHM-601-CO5	Propose synthetic routes for the preparation of organic compounds based on spectroscopic data.
CHM-601-CO6	Apply knowledge of the electrospectrum to understand the electronic transitions in organic molecules.
CHM-601-CO7	Demonstrate proficiency in interpreting NMR spectra for the determination of molecular structure.
CHM-601-CO8	Design experiments to explore the influence of solvent and temperature on absorption spectra.
CHM-601-CO9	Utilize spectroscopic data in retrosynthetic analysis for organic synthesis.
CHM-601-CO10	Integrate absorption spectroscopy with other analytical techniques in interdisciplinary research projects.

CHM-601-CO: Chemistry, Organic Chemistry (IV) – Course Outcomes

PHYSICAL CHEMISTRY – IV (THEORY)

COURSE OUTCOMES

CODE & NO.	COURSE OUTCOMES
CHM-602-CO1	Explain basic concepts of Quantum Mechanics.
CHM-602-CO2	Define the terms related to solid states.
CHM-602-CO3	Illustrate basic concepts of Photochemistry
CHM-602-CO4	Design experiments to investigate quantum phenomena in laboratory settings.
CHM-602-CO5	Utilize computational methods to solve quantum mechanical problems in chemistry.
CHM-602-CO6	Integrate the concepts of quantum mechanics, solid-state chemistry, and photochemistry for a comprehensive understanding of material behavior.
CHM-602-CO7	Analyze the fundamental principles of quantum mechanics and their application to chemical systems.
CHM-602-CO8	Examine the crystal structures and properties of solid-state materials.
CHM-602-CO9	Evaluate the significance of quantum mechanical principles in understanding molecular behavior.
CHM-602-CO10	Apply quantum mechanics to predict molecular properties, including energy levels and molecular spectra.

CHM-602-CO: Chemistry, Physical Chemistry (IV) – Course Outcomes

Course : ZOOLOGY

ZOO-1A: CELL BIOLOGY (THEORY)

COURSE OUTCOMES

CODE & NO.	COURSE OUTCOMES
ZOO-1A-CO 01	Analyze cellular structures using light and phase contrast microscopy techniques.
ZOO-1A-CO 02	Differentiate between transmission electron microscopy (TEM) and scanning electron microscopy (SEM) for ultrastructural analysis.
ZOO-1A-CO 03	Apply appropriate fixation methods and fixatives for preserving cellular structures.
ZOO-1A-CO 04	Describe the structure of the plasma membrane.
ZOO-1A-CO 05	Differentiate between types of endoplasmic reticulum.
ZOO-1A-CO 06	Classify types of ribosomes.
ZOO-1A-CO 07	Describe the elementary idea of the cellular basis of immunity.
ZOO-1A-CO 08	Analyze the elementary idea of cell transformation in cancer.
ZOO-1A-CO 09	Describe the structure of the centrosome.
ZOO-1A-CO 10	Explain the functions of the centrosome in cellular organization.

ZOO-1A-CO: Zoology, Cell Biology-Course Outcomes

ZOO-1B: BIODIVERSITY-I
(PROTOZOA TO ANNELIDA)

(THEORY)

COURSE OUTCOMES

CODE & NO.	COURSE OUTCOMES
ZOO-1B-CO 01	Explain the basic life cycle and feeding mechanisms of <i>Amoeba proteus</i> .
ZOO-1B-CO 02	Investigate the structure and function of <i>Paramecium caudatum</i> .
ZOO-1B -CO 03	Discuss the pathogenicity and epidemiology of malaria caused by <i>Plasmodium vivax</i> .
ZOO-1B -CO 04	Describe the structure and organization of <i>Sycon</i> .
ZOO-1B -CO 05	Investigate the life cycle and alternation of generations in <i>Obelia</i> .
ZOO-1B -CO 06	Explore the morphology and life cycle of <i>Fasciola hepatica</i> .
ZOO-1B -CO 07	Analyze the morphology and life cycle of <i>Taenia solium</i> .
ZOO-1B -CO 08	Differentiate between the larvae of <i>Fasciola hepatica</i> and <i>Taenia solium</i> .
ZOO-1B -CO 09	Examine the morphology and life cycle of <i>Ascaris</i> .
ZOO-1B -CO 10	Describe the life cycle of of <i>Pheretima posthuma</i> .

ZOO-1B-CO: Zoology, Biodiversity-I (PROTOZOA TO ANNELIDA)-Course Outcomes

**ZOO-II A: ECOLOGY
(THEORY)
COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
ZOO- II A -CO 01	Discuss the scope of ecology in understanding natural systems.
ZOO- II A -CO 02	Identify and describe the components of an ecosystem.
ZOO- II A -CO 03	Evaluate the impact of temperature, light, and soil as ecological factors on organisms.
ZOO- II A -CO 04	Explain biogeochemical cycles and their significance in nutrient cycling.
ZOO- II A -CO 05	Identify and categorize morphological, physiological, and behavioral adaptations in animals within different habitats.
ZOO- II A -CO 06	Describe the characteristics of populations.
ZOO- II A -CO 07	Explain the concepts of competition, predation, parasitism, commensalism, and mutualism.
ZOO- II A -CO 08	Discuss ecological succession and explain the ecological niche concept.
ZOO- II A -CO 09	Differentiate between renewable and non-renewable natural resources.
ZOO- II A -CO 10	Examine the causes, impacts, and consequences of environmental pollution.

ZOO-II A-CO: Zoology, Ecology-Course Outcomes

**ZOO-II B: BIODIVERSITY-II (ARTHROPODA TO HEMICHORDATA)
(THEORY)
COURSE OUTCOMES**

ZOO- II B: -CO 01	Examine the external and internal morphology of <i>Periplaneta americana</i> .
ZOO- II B: -CO 02	Analyze the physiological adaptations and ecological significance of cockroaches.
ZOO- II B: -CO 03	Investigate the social structure and behaviors of honey bees.
ZOO- II B: -CO 04	Examine the social organization and roles within termite colonies.
ZOO- II B: -CO 05	Analyze the anatomy and physiology of <i>Pila globosa</i> .
ZOO- II B: -CO 06	Explain the process of torsion in mollusks.
ZOO- II B: -CO 07	Examine the external and internal morphology of <i>Asterias</i> .
ZOO- II B: -CO 08	Investigate the larval stages of echinoderms and their developmental significance.
ZOO -II B: -CO 09	Describe the external characters of <i>Balanoglossus</i> .
ZOO -II B: -CO 10	Xplore the evolutionary relationships and affinities of Hemichordates with other non-chordate and chordate phyla.

ZOO-II B-CO: Zoology, Biodiversity-II (Arthropoda To Hemichordata) –Course Outcomes

ZOO-III A: EVOLUTION (THEORY)**COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
ZOO- III A: -CO 01	Define and explain the fundamental principles and concepts of evolution.
ZOO- III A: -CO 02	Identify and critically analyze various evidences supporting organic evolution.
ZOO- III A: -CO 03	Differentiate between microevolution, macroevolution, and mega-evolution.
ZOO- III A: -CO 04	Define the concept of a species and understand the criteria for species identification.
ZOO- III A: -CO 05	Classify different types of fossils and understand their significance in studying evolution.
ZOO- III A: -CO 06	Evaluate the concept of evolutionary rate and its implications.
ZOO- III A: -CO 07	Summarize the key stages and milestones in the evolution of hominids and <i>Homo sapiens</i> .
ZOO- III A: -CO 08	Analyze the migratory behavior and parental care strategies in fish (Pisces).
ZOO -III A: -CO 09	Describe the adaptations for flight in birds.
ZOO -III A: -CO 10	Understand the concept of adaptive radiation in the context of different vertebrate groups.

ZOO-III A-CO: Zoology, Evolution -Course Outcomes**ZOO-III B: BIODIVERSITY-III (CHORDATES) (THEORY)****COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
ZOO- III B: -CO 01	Identify and describe the external features of Urochordata, focusing on <i>Herdmania</i> .
ZOO- III B: -CO 02	Examine the external and internal morphology of <i>Amphioxus</i> .
ZOO- III B: -CO 03	Investigate the external characters of Cyclostomata, with a focus on <i>Petromyzon</i> (lamprey).
ZOO- III B: -CO 04	Explore the evolutionary relationships and affinities of Cyclostomata with other vertebrate groups.
ZOO- III B: -CO 05	Examine the external and internal features of <i>Labeo</i> (a fish representative).
ZOO- III B: -CO 06	Understand the amphibian life cycle and adaptations for both aquatic and terrestrial habitats.
ZOO- III B: -CO 07	Examine the external and internal morphology of <i>Uromastix</i> (a representative reptile).
ZOO- III B: -CO 08	Explore the external and internal features of pigeons.
ZOO -III B: -CO 09	Understand the adaptations of birds for flight and their role in ecosystems.
ZOO -III B: -CO 10	Investigate the external and internal characteristics of rats.

ZOO-III B-CO: Zoology, Biodiversity-III (Chordates)-Course Outcomes

ZOO-IVA: BIOCHEMISTRY (THEORY)**COURSE OUTCOMES**

CODE & NO.	COURSE OUTCOMES
ZOO-IVA: -CO 01	Define biochemistry and articulate its scope in understanding cellular processes.
ZOO-IVA: -CO 02	Classify carbohydrates, proteins, lipids, and nucleic acids based on their structures and functions.
ZOO-IVA: -CO 03	Classify enzymes based on their structure, function, and catalytic mechanisms.
ZOO-IVA: -CO 04	Explain the role of coenzymes in enzyme-catalyzed reactions.
ZOO-IVA: -CO 05	Explore the process of β -oxidation in fatty acid metabolism.
ZOO-IVA:-CO 06	Describe the steps and regulation of glycolysis.
ZOO-IVA: -CO 07	Understand the role of TCA cycle in cellular respiration.
ZOO-IVA -CO 08	Examine the purpose and significance of the hexose monophosphate shunt.
ZOO-IVA: -CO 09	Analyze the processes of glycogenesis and glycogenolysis.
ZOO-IVA: -CO 10	Describe the mechanisms and components of oxidative phosphorylation.
ZOO-IVA: -CO 11	Explore the catabolism and anabolism of amino acids.
ZOO-IVA: -CO 12	Explain the processes of oxidative deamination and transamination.
ZOO-IVA: -CO 13	Explore the mechanisms of decarboxylation reactions in protein metabolism.
ZOO-IVA: -CO 13	Explain the ornithine cycle and its role in urea synthesis.

ZOO-IVA-CO: Zoology, Biochemistry-Course Outcomes**ZOO-IV B: ANIMAL PHYSIOLOGY (THEORY)**

CODE & NO.	COURSE OUTCOMES
ZOO-IV B:-CO 01	Analyze the digestion of dietary constituents, including carbohydrates, proteins, and lipids.
ZOO-IV B: -CO 02	Investigate the transport of O ₂ and CO ₂ in the respiratory system.
ZOO-IV B: -CO 03	Examine the origin and regulation of heartbeats.
ZOO-IV B: -CO 04	Describe the composition and functions of blood and lymph.
ZOO-IV B: -CO 05	Explore blood clotting, blood groups (including Rh factor), haemopoiesis, and haemostasis.
ZOO-IV B:-CO 06	Analyze the ultrastructure of muscles and the chemical and physical basis of skeletal muscle contraction.
ZOO-IV B: -CO 07	Examine the structure of neurons.
ZOO-IV B -CO 08	Understand the resting membrane potential and the origin and propagation of impulses along the axon.
ZOO-IV B: -CO 09	Analyze instinctive and motivated learning, as well as reasoning processes.
ZOO-IV B: -CO10	Examine the structure and physiology of endocrine glands including the thyroid, parathyroid, adrenal, hypothalamus, pituitary, pancreas, and gonads.

ZOO-IVB-CO: Zoology, Animal Physiology-Course Outcomes

ZOO-VA: DEVELOPMENTAL BIOLOGY (THEORY)
COURSE OUTCOMES

ZOO-VA:-CO 01	Differentiate the stages of gametogenesis with a focus on spermatozoa and vitellogenesis.
ZOO-VA: -CO 02	Analyze the process of egg maturation and the formation of egg membranes.
ZOO-VA: -CO 03	Describe the patterns of cleavage during early embryonic development.
ZOO-VA: -CO 04	Explain the process of gastrulation and its role in germ layer formation.
ZOO-VA: -CO 05	Discuss the concepts of determination and differentiation in embryonic development.
ZOO-VA:-CO 06	Analyze the roles of organizers and inductors in embryonic development.
ZOO-VA: -CO 07	Describe the development up to the three germinal layers in frog and chick embryos.
ZOO-VA -CO 08	Examine the process of metamorphosis in frogs.
ZOO-VA: -CO 09	Describe the formation of foetal membranes.
ZOO-VA: -CO10	Explain the formation, types, and functions of the mammalian placenta.

ZOO-VA-CO: Zoology, Developmental Biology -Course Outcomes

ZOO-VB: GENETICS

(THEORY)
COURSE OUTCOMES

ZOO-VB:-CO 01	Analyze non-allelic gene interactions and modified F2 ratios.
ZOO-VB: -CO 02	Explain the inheritance patterns of multiple alleles using examples like blood groups and eye color in <i>Drosophila</i> .
ZOO-VB: -CO 03	Investigate the process of crossing over, including its frequency and cytological basis.
ZOO-VB: -CO 04	Describe the structure of nucleic acids (DNA & RNA).
ZOO-VB: -CO 05	Investigate protein synthesis in both prokaryotes and eukaryotes.
ZOO-VB:-CO 06	Classify mutations as spontaneous or induced, physical or chemical.
ZOO-VB: -CO 07	Explain extranuclear inheritance, focusing on chloroplasts with reference to <i>Mirabilis jalapa</i> .
ZOO-VB -CO 08	Analyze genetic recombination in bacteria through conjugation, transduction, and transformation.
ZOO-VB: -CO 09	Apply the principles of equilibrium of gene frequencies and Hardy-Weinberg law.
ZOO-VB: -CO10	Discuss recombinant DNA technology and its applications in medicine and agriculture.

ZOO-VB-CO: Zoology, Genetics -Course Outcomes

ZOO-VIA: Option-i: MEDICAL ZOOLOGY (THEORY)
COURSE OUTCOMES

ZOO-VIA:-CO 01	Explain the key concepts and approaches in the study of parasitic organisms.
ZOO-VIA: -CO 02	Provide an overview of pathogenic microbes, including viruses, Rickettsiae, spirochaetes, and bacteria and significance of each group in causing diseases.
ZOO-VIA: -CO 03	Analyze epidemic diseases such as Typhoid, Cholera and Smallpox, occurrence, historical context and eradication programs implemented for these diseases.
ZOO-VIA: -CO 04	Describe the life history, mode of infection, and pathogenicity of <i>Entamoeba</i> , <i>Trypanosoma</i> , <i>Leishmania</i> , <i>Giardia</i> , <i>Trichomonas</i> , and <i>Plasmodium</i> .
ZOO-VIA: -CO 05	Provide brief accounts of the life history, mode of infection, and pathogenicity of <i>Fasciola</i> , <i>Schistosoma</i> , <i>Echinococcus</i> , <i>Ancylostoma</i> , <i>Trichinella</i> , <i>Wuchereria</i> , <i>Dracunculus</i> , and <i>Oxyuris</i> .
ZOO-VIA:-CO 06	Describe the life cycles of arthropod vectors involved in transmitting diseases such as Malaria, Yellow Fever, Dengue, Chicken Guinea, Filariasis, Japanese Encephalitis, Plague, and Epidemic Typhus.
ZOO-VIA: -CO 07	Provide a brief introduction to the human defense mechanisms against infections.
ZOO-VIA -CO 08	Explain the humoral and cell-mediated immune responses.
ZOO-VIA: -CO 09	Explore the role of the immune system in protecting the human body from pathogens.
ZOO-VIA: -CO10	Analyze the structure and functions of immunoglobulins (M, G, A, E, and D).

ZOO-VI B Option-i: MEDICAL LABORATORY TECHNOLOGY (THEORY)

Course Outcomes

ZOO-VIB-CO: Medical Laboratory Technology -Course Outcomes

ZOO-VIB:-CO 01	Apply and perform serodiagnostic assays such as precipitation, agglutination, immunodiffusion, ELISA and RIA.
ZOO-VIB: -CO 02	Evaluate the development, types, and mechanisms of action of vaccines.
ZOO-VIB: -CO 03	Demonstrate proficiency in laboratory techniques, including colorimetry, microscopy, autoclaving, centrifugation and spectrophotometry.
ZOO-VIB: -CO 04	Explain the proper methods for collecting, transporting, and preserving various clinical samples.
ZOO-VIB: -CO 05	Conduct hematological tests, including total RBC count, erythrocyte sedimentation rate, TLC, DLC and platelet count.
ZOO-VIB:-CO 06	Demonstrate knowledge of sterilization methods, including dry heat, moist heat, autoclaving and filtration.
ZOO-VIB: -CO 07	Apply staining techniques such as gram stain and AFB stain.
ZOO-VIB -CO 08	Apply common fixatives and staining techniques in histopathology.
ZOO-VIB: -CO 09	Explain the principles and significance of estimating urea, sugar, cholesterol, creatinine and enzymes (transaminase, phosphatase, amylase and lipase) in blood.
ZOO-VIB: -CO10	Perform liver function tests and analyze the results, conduct biochemical estimations in urine, including proteins, sugar, bile salts and ketone bodies.

BOTANY
COURSE OUTCOMES
(THEORY)

PAPER-I A: DIVERSITY OF MICROBES

CODE & NO	COURSE OUTCOMES
BOT- I A - CO1	Understand Algal Diversity and Economic Importance
BOT- I A - CO2	Describe the important features and life history of Chlorophyceae, Xanthophyceae, Phaeophyceae, and Rhodophyceae genera.
BOT I A - CO3	Knowledge of Microbial Diversity and Structure
BOT- I A - CO4	Discuss the general features of cyanobacteria and bacterioids and economic importance of bacteria.
BOT- I A - CO5	Understand Fungal Classification Fungi and Economic Importance
BOT I A - CO6	Describe the important features and life history of Mastigomycotina, Zygomycotina, Ascomycotina genera
BOT- I A - CO7	Detail Knowledge of Fungal Genera and Lichens
BOT- I A - CO8	Discuss the general aspects and significance of lichens in the ecosystem

Note- BOT- I A: DIVERSITY OF MICROBES

PAPER-I B: DIVERSITY OF CRYPTOGAMS

CODE & NO	COURSE OUTCOMES
C - CO1	Understand Bryophytes and Alternation of Generations
BOT- I B - CO2	Describe the structure and reproductive features of Bryophyta, illustrating their life cycle
BOT- I B - CO3	Knowledge of Cryptogamic Classification
BOT- I B - CO4	Describe the important characteristics of Psilopsida, Lycopsida, Sphenopsida, and Pteropsida.
BOT- I B - CO5	Explain the structural and reproductive characteristics of representative examples like Marchantia, Anthoceros, and Funaria
BOT- I B - CO6	Understand Vascular Plants and Pteridophyte Characteristics
BOT- I B - CO7	Discuss the evolutionary significance of Pteridophyta as the first vascular plants
BOT- I B - CO8	Explain the structure and reproductive features using Rhynia
BOT- I B - CO9	Discuss the evolutionary significance of Pteridophyta

NOTE-BOT- I B : DIVERSITY OF CRYPTOGAMS

PAPER-II A: CELL BIOLOGY

CODE & NO	COURSE OUTCOMES
BOT- II A - CO1	Describe the ultrastructure Nucleus Structure, Function and histone proteins.
BOT- II A - CO2	Explain the nucleosome model, karyotypes, and understand the processes of mitosis, meiosis, and the cell cycle
BOT- II A - CO3	Understand Extra Nuclear Genomes and Organelle Functions
BOT- II A - CO4	Explain the presence and functions of mitochondrial and plastid DNA, as well as the role of plasmids.
BOT- II A - CO5	Describe the structure and functions of organelles such as mitochondria, chloroplasts, peroxisomes, and vacuoles.
BOT- II A - CO6	Discuss chromosome morphology, centromeres, telomeres, and chromosome alterations like deletions, duplications, translocations, and inversions.
BOT- II A - CO7	Understand variations in chromosome numbers, aneuploidy, and polyploidy
BOT- II A - CO8	Understand variations in chromosome numbers, aneuploidy, and polyploidy, including the role of sex chromosomes.
BOT- II A - CO9	Understanding Cell Envelopes and Membrane Structures
BOT- II A - CO10	Explain the ultrastructure of the cell wall, its composition, and functions including its role in cell integrity and communication.

NOTE: BOT- II A: CELL BIOLOGY (THEORY)

PAPER-II B: GENETICS

CODE & NO	COURSE OUTCOMES
BOT- II B - CO1	Understand the Structure of DNA, types of DNA (A, B, Z DNA) and Functions
BOT- II B - CO2	Demonstrate comprehension of DNA replication, DNA-protein interaction, the nucleosome model, genetic codes, and satellite and repetitive DNA sequences
BOT- II B - CO3	understand and different between mitosis and meiosis.
BOT- II B - CO4	Understand Mendelian laws of segregation, independent assortment and genetic inheritance.

BOT- II B - CO5	Analyze and discuss inheritance patterns including incomplete dominance, codominance, multiple alleles, lethal alleles, epistasis, pleiotropy, penetrance, expressivity, and polygenic inheritance
BOT- II B - CO6	Demonstrate the structure of genes and the transfer of genetic information during transcription, translation, and protein synthesis.
BOT- II B - CO7	Analyze and explain the regulation of gene expression in prokaryotes and eukaryotes including the roles of tRNA, ribosomes, and the structure of proteins in 1D, 2D, and 3D forms
BOT- II B - CO8	Display proficiency in comprehending mutations, their types, including spontaneous and induced mutations
BOT- II B - CO9	Explain the role and significance of transposable genetic elements, mechanisms of DNA damage, and repair.

NOTE: BOT- II B: GENETICS (THEORY)

PAPER-III A: STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS-I

CODE & NO	COURSE OUTCOMES
BOT- III A - CO1	Understand Plant the modular growth pattern in flowering plants. Analyse the diversity in plant forms among annuals, biennials, and perennials
BOT- III A - CO2	Differentiate and evaluate the growth patterns observed in trees, including branching patterns, monopodial, and sympodial growth, elucidating canopy architecture.
BOT- III A - CO3	Explain the organization and functions of shoot apical meristem and its histological structure
BOT- III A - CO4	Analyze the differentiation between meristematic and permanent tissues and their roles in the formation of internodes
BOT- III A - CO5	Describe the cambium, its functions, and the process of secondary xylem formation
BOT- III A - CO6	Analyze the structure of wood and Its Functions
BOT- III A - CO7	Explain the characteristics of growth rings, sapwood, and heartwood, secondary phloem
BOT- III A - CO8	Explain Leaf Anatomy and Adaptations
BOT- III A - CO9	Understand the Leaf origin, Development, Structure, leaves size, shape and Adaptations
BOT- III A - CO10	Analyze the internal structure of leaves concerning photosynthesis and transpiration, explaining adaptations to water stress

NOTE: BOT- III A: STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS–I

Paper–III B: STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS–II

CODE & NO	COURSE OUTCOMES
BOT- III B - CO1	Understanding Root System, root apical meristem and its role in root development
BOT- III B - CO2	Explain the differentiation between primary and secondary tissues in roots and their respective functions
BOT- III B - CO3	Analyze and explain structural modifications of roots for storage, respiration, reproduction, and interaction with microbes
BOT- III B - CO4	Discuss various methods of vegetative propagation, types of grafting, budding, their significance and the economic aspects
BOT- III B - CO5	Analyze the flower as a modified shoot, detailing its structure, development, varieties, and functions
BOT- III B - CO6	Explain the structure of anther and pistil and their roles in plant reproduction. Describe the male and female gametophytes and various types of pollination
BOT- III B - CO7	Discuss the attractions and rewards for pollinators, types of pollinators, and the concept of pollen-pistil interaction, including self-incompatibility.
BOT- III B - CO8	Explain the process of double fertilization and its role in seed endosperm and embryo formation.
BOT- III B - CO9	Discuss the development and maturation of fruits, emphasizing their significance
BOT- III B - CO10	Analyze the ecological adaptations of seeds, suspended animation, genetic recombination, and various dispersal strategies in plants

NOTE: BOT- III B -STRUCTURE, DEVELOPMENT AND REPRODUCTION IN FLOWERING PLANTS–II

Paper-IV A:-DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS-I

CODE & NO	COURSE OUTCOMES
BOT-IVA- CO1	Understand Seed Plant Characteristics and Evolution
BOT-IVA- CO2	Analyze the differences between angiosperms and gymnosperms
BOT-IVA- CO3	Analyze the origin, evolution, and examples of primitive angiosperms, highlighting their significance in plant evolution
BOT-IVA- CO4	Describe the general characteristics of gymnosperms, their classification, and diversity, including fossil and living gymnosperms
BOT-IA- CO5	Explain the evolutionary aspects and diversity of gymnosperms concerning the geological time scale and the process of fossilization
BOT-IA- CO6	Analyze and describe the morphological and anatomical features of vegetative and reproductive parts of Pinus and Cycas
BOT-IVA- CO7	Describe the reproductive mechanisms and life cycle of Pinus and Cycas, emphasizing their unique characteristics
BOT-IVA- CO8	Analyze and describe the morphology of vegetative and reproductive parts of Ephedra and Ginkgo
BOT-IVA- CO9	Describe the reproductive mechanisms and life cycle of Ephedra and Ginkgo, highlighting their distinct characteristics

NOTE: Paper-IV A: DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS-I

Paper-IV B: DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS-II

CODE & NO	COURSE OUTCOMES
BOT-IVB- CO1	Understand Angiosperm Taxonomy and Nomenclature
BOT-IVB- CO2	Describe the principles and elements of identification, keys, taxonomic literature, the taxonomic ranks, type and botanical nomenclature
BOT-IVB- CO3	Discuss the major contributions of cytology, phytochemistry, and taxometrics to plant taxonomy
BOT-IVB- CO4	Describe and compare the salient features of angiosperm classification systems proposed by Bentham and Hooker, Engler and Prantel

BOT- IVB - CO5	Understand Diversity of Plant Families, Identify and describe the diversity of flowering plants represented by members of families Ranunculaceae, Brassicaceae, Rutaceae, Fabaceae, Apiaceae, Acanthaceae, and Asteraceae
BOT- IVB - CO6	Analyze and categorize the distinguishing characteristics, distribution, and ecological significance of these plant families
BOT- IVB - CO7	Identify and describe the diversity of flowering plants represented by members of families Apocynaceae, Asclepiadaceae, Solanaceae, Lamiaceae, Chenopodiaceae, Euphorbiaceae, Liliaceae, Orchidaceae, and Poaceae
BOT-IVB- CO8	Analyze and categorize the distinguishing characteristics, distribution, and ecological significance of these additional plant families

NOTE: BOT-IVB- DIVERSITY OF SEED PLANTS AND THEIR SYSTEMATICS–II (THEORY)

Paper-VA: Plant Physiology

CODE & NO	COURSE OUTCOMES
BOT-VA- CO1	Understand Water and Plant Life
BOT-VA- CO2	Explain the significance of water in plant life considering its physical properties
BOT-VA- CO3	Describe the physiological functions and mechanisms of stomata in plant water regulation.
BOT-VA- CO4	Comprehend Mineral Nutrition
BOT-VA- CO5	Analyze the mechanisms and factors affecting mineral uptake and the symptoms of deficiency and toxicity using hydroponics.
BOT-VA- CO6	Explain the significance and historical aspects of photosynthesis
BOT-VA- CO7	Analyze plant movements, photoperiodism, flowering physiology, role of plant hormones
BOT-VA- CO8	Understand Growth and Development in Plants
BOT-VA- CO9	Explain seed dormancy, germination, and regulatory factors influencing these processes
BOT-VA- CO10	Analyze plant movements, photoperiodism, flowering physiology, senescence, fruit ripening, and the role of plant hormones

NOTE: BOT-VA- Plant Physiology

PAPER–VB: BIOCHEMISTRY AND BIOTECHNOLOGY

CODE & NO	COURSE OUTCOMES
BOT-VB- CO1	Understand Basics of Enzymology Identify and explain the discovery and nomenclature of enzymes, holoenzyme, apoenzyme, coenzymes, cofactors

BOT-VB- CO2	Analyze regulation of enzyme activity and the mechanism of action
BOT-VB- CO3	Differentiate between aerobic and anaerobic respiration
BOT-VB- CO4	Explain the role of ATP as the biological energy currency, the Krebs cycle, electron transport mechanism (chemi-osmotic theory), redox potential, oxidative phosphorylation, and the pentose phosphate pathway
BOT-VB- CO5	Explore the biology of nitrogen fixation and its importance
BOT-VB- CO6	Explore the biology of nitrogen fixation, regulation of nitrate reductase ammonium assimilation and its importance
BOT-VB- CO7	Investigate the structure and function of lipids, focusing on fatty acid biosynthesis, β -oxidation, saturated and unsaturated fatty acids, and the storage and mobilization of fatty acids
BOT-VB- CO8	Analyze cloning vectors, genomic and cDNA library, transposable elements, techniques of gene mapping, and Chromosome walking
BOT-VB- CO9	Define the functional aspects of biotechnology, plant tissue culture, including cellular totipotency, differentiation, and morphogenesis
BOT-VB- CO10	Investigate basic aspects of Agrobacterium, vectors for gene delivery, marker genes, and salient achievements in crop biotechnology

NOTE- VB: BIOCHEMISTRY

PAPER- VIA: ECOLOGY

CODE & NO	COURSE OUTCOMES
BOT-VIA- CO1	Analyze the gaseous composition of the atmosphere and discuss properties of the water cycle and its significance for plant life
BOT-VIA- CO2	Evaluate global radiation and photosynthetically active radiation, thermoperiodicity, vernalization photoperiodism, heliophytes, and sciophytes
BOT-VIA- CO3	Analyze soil profiles, the physico-chemical properties affecting plant growth, morphological, anatomical, and physiological responses of plants to water, considering hydrophytes and xerophytes
BOT-VIA- CO4	Understand Community Ecology, absolute and relative frequency, density, dominance, basal area, and importance value index (IVI).
BOT-VIA- CO5	Explore Whittaker's classification of biodiversity, indices of alpha, beta, and gamma diversity, life forms, biological spectrum, and ecological succession
BOT-VIA- CO6	Analyze growth curves and discuss the concept of ecotypes and ecad.

BOT-VIA- CO7	Understand Population ecosystems, considering abiotic and biotic components, food chain, food web, ecological pyramids, energy flow, and biogeochemical cycles of carbon, nitrogen, and phosphorus
BOT-VIA- CO8	Examine the vegetation types of India, focusing on forests and grasslands
BOT-VIA- CO9	Understand Landscape Ecology, Define and discuss the concept of landscape ecology, including the effects of patch size and shape on biodiversity and dynamics

NOTE- VIA: ECOLOGY

PAPER- VIB: ECONOMIC BOTANY

CODE & NO	COURSE OUTCOMES
BOT-VIB- CO1	Understand the detailed account of <i>Oryza sativa</i> (Rice), <i>Triticum aestivum</i> (Wheat), <i>Zea mays</i> (Maize), <i>Solanum Tuberosum</i> (Potato), and <i>Saccharum officinarum</i> (Sugarcane)
BOT-VIB- CO2	Explore the economic significance and characteristics of <i>Gossypium hirsutum</i> (Cotton) and <i>Chorchorus capsularis</i> (Jute)
BOT-VIB- CO3	Discuss the uses and economic importance of <i>Arachis hypogea</i> (Groundnut), <i>Brassica campestris</i> (Mustard), and <i>Cocos nucifera</i> (Coconut) as sources of vegetable oils
BOT-VIB- CO4	Present a general account of <i>Piper nigrum</i> (Black pepper), <i>Eugenia caryophyllum</i> (Cloves), <i>Cinnamomum verum</i> (Cinnamomum), <i>Elettaria cardamomum</i> (Cardamom), <i>Zingiber officinalis</i> (Ginger), <i>Curcuma longa</i> (Turmeric), <i>Coriandrum sativum</i> (Coriander), <i>Foeniculum vulgare</i> (Fennel), and <i>Mentha arvensis</i> (Mint)
BOT-VIB- CO5	Understand the medicinal properties and uses of <i>Terminalia chebula</i> (Harar), <i>Terminalia belerica</i> (Bahera), <i>Azadirachta indica</i> (Neem), <i>Phyllanthus emblica</i> (Amla), <i>Aconitum napellus</i> (Aconite), <i>Rauwolfia serpentina</i> (Sarpagandha), <i>Atropa belladonna</i> (Belladonna), <i>Datura stramonium</i> (Datura), <i>Withania somniferum</i> (Ashwagandha), and <i>Papaver somniferum</i> (Poppy)
BOT-VIB- CO6	Explore the economic significance and characteristics of <i>Camellia sinensis</i> (Tea) and <i>Coffea arabica</i> (Coffee)
BOT-VIB- CO7	To study detailed account of <i>Hevea brasiliensis</i> (Rubber), including its morphology, processing, and uses. Present a general overview of sources of firewood, timber, and bamboos, emphasizing their economic importance and uses

NOTE-VIB: ECONOMIC BOTANY

PROGRAMME NAME: B.SC. MEDICAL
PSO/CO MAPPING

PSO.NO.	CONTENT	CO.NO.
PSO-UG-BSCM01	Develop critical thinking on various topics related with the pure sciences.	ZOO-1A-CO 01 ZOO-1A-CO 02 ZOO-VIB-CO 01 ZOO-VIB-CO 02 ZOO-VIB-CO 03 ZOO-VIB-CO 04 ZOO-VIB-CO 05 BOT- I A - CO1 BOT- I A – CO3 BOT- I B - CO5 BOT-VIA- CO1 CHM-101-CO1 CHM-101-CO5 CHM-102-CO3 CHM-201-CO3 CHM-202-CO1 CHM-401-CO4
PSO-UG-BSCM02	Develop a foundation for research methodologies and foster a commitment to lifelong learning, keeping up-to-date with advancements in medical sciences and technologies.	ZOO-1A-CO 08 ZOO-1A-CO 02 ZOO-1A-CO 10 ZOO-VB -CO 08 ZOO-VB-CO10 BOT- II A - CO2 BOT- II A - CO5 BOT- II B – CO8 BOT- II B - CO9 BOT-VB- CO1 CHM-102-CO7 CHM-201-CO8 CHM-202-CO10 CHM-301-CO7 CHM-402-CO1 CHM-502-CO3
PSO-UG-BSCM03	Acquire the abilities in handling scientific equipment's, scheduling and executing the experiments in laboratories and to derive logical conclusions from the scientific experiments	ZOO-VIB-CO 01 ZOO-VIB-CO 02 ZOO-VIB-CO 03 ZOO-VIB-CO 04 ZOO-VIB-CO 05 ZOO-VIB-CO 06 ZOO-VIB-CO 07

		ZOO-VIB-CO 08 BOT-VIA- CO2 BOT-VIA- CO3 BOT-VIA- CO5 BOT-VIA- CO7 BOT-VIA- CO9 CHM-301-CO5 CHM-401-CO2 CHM-502-CO2 CHM-602-CO3 CHM-601-CO3 CHM-601-CO9
PSO-UG-BSCM04	Gain insights into healthcare systems, healthcare policies and public health concepts to address healthcare challenges and contribute to community health improvement.	ZOO-IB -CO 06 ZOO-IB -CO 07 ZOO-IB -CO 09 ZOO-VIA -CO 02 ZOO-VIA-CO 03 ZOO-VIA -CO 04 ZOO-VIA-CO 05 ZOO-VIA -CO 06 BOT-VIB- CO3 BOT-VIB- CO4 BOT-VIB- CO6 CHM-102-CO9 CHM-201-CO4 CHM-301-CO1 CHM-402-CO4 CHM-602-CO3
PSO-UG-BSCM05	Empower them with insights into advancements in various science disciplines and demonstrate how an interdisciplinary approach catalyzes innovation, fostering more effective and sustainable solutions for development.	ZOO-1A-CO 01 ZOO-1A-CO 02 ZOO-VB -CO10 ZOO-VIA -CO10 ZOO-VIB-CO01 ZOO-VIB-CO02 BOT-IVB- CO3 BOT- IVB - CO5 BOT-IVA- CO1 BOT-IVA- CO8 CHM-101-CO7 CHM-102-CO8 CHM-201-CO9 CHM-202-CO7 CHM-301-CO6 CHM-302-CO10 CHM-401-CO9

PSO-UG-BSCM06	Cultivate a scientific aptitude, empowering individuals to tackle life's challenges with open-mindedness, apply critical thinking and nurture curiosity.	ZOO-1A-CO 07 ZOO-IB -CO 08 BOT-VIB- CO2 BOT-VB- CO10 BOT-VB- CO1 BOT-VB- CO4 CHM-102-CO6 CHM-201-CO8 CHM-201-CO5 CHM-202-CO8
PSO-UG-BSCM07	Equip them with the ability to apply their gained knowledge independently, fostering self-reliance and self-sufficiency. This enhances self-esteem and motivates perseverance, especially in demanding situations, fostering a positive attitude towards future challenges.	ZOO-VIB-CO 03 ZOO-VIB -CO 03 ZOO-VIB-CO 04 ZOO-VIB-CO 05 ZOO-VIB-CO 09 ZOO-VIB-CO 10 BOT-VIB- CO2 BOT-VIB -CO 9 BOT-VIA- CO6 CHM-202-CO3 CHM-301-CO3 CHM-302-CO7 CHM-401-CO7 CHM-501-CO8 CHM-601-CO8 CHM-601-CO4 CHM-602-CO7 CHM-602-CO10
PSO-UG-BSCM08	Acquire practical skills in laboratory techniques, clinical procedures and diagnostic methodologies essential for medical research and practice.	ZOO-1A-CO 01 ZOO-1A-CO 02 ZOO-VIB -CO 03 ZOO-VIB -CO 05 ZOO-VIB-CO 06 BOT-IVA- CO2 BOT- III B - CO9 BOT- III B - CO10 CHM-101-CO3 CHM-101-CO6 CHM-102-CO2 CHM-102-CO5 CHM-102-CO10 CHM-201-CO2 CHM-202-CO3 CHM-202-CO5 CHM-202-CO9
PSO-UG-BSCM09	Demonstrate ethical behavior, professionalism and adhere to ethical standards in medical practice and research, considering the moral, social and legal aspects of healthcare.	ZOO-1A-CO 07 ZOO- II A -CO 09 ZOO- II A -CO 10 ZOO- II A -CO 06 BOT- III B - CO10

		BOT-VA- CO10 BOT-VB- CO8 CHM-101-CO2 CHM-101-CO4 CHM-102-CO1 CHM-102-CO4 CHM-201-CO1 CHM-202-CO2 CHM-202-CO4 CHM-202-CO6
PSO-UG-BSCM10	Equip students with the necessary skills and knowledge to pursue advanced studies in research, in allied health sciences or enter the healthcare industry for diverse career opportunities.	ZOO- II A -CO 09 ZOO- II A -CO 10 ZOO-IV B-CO 05 ZOO-IV B-CO10 ZOO-VB-CO 02 ZOO-VB-CO 03 ZOO-VB-CO 04 BOT-VB- CO8 BOT-VB- CO9 BOT-VIA- CO4 CHM-201-CO6 CHM-201-CO7 CHM-601-CO1 CHM-601-CO2 CHM-601-CO7 CHM-602-CO1 CHM-602-CO2 CHM-602-CO8 CHM-602-CO9

PROGRAMME NAME: B.SC. NON.-MEDICAL
PSO's and CO's Mapping

PSO. NO.	CONTENT	CO. NO.
PSO-UG-BSCNM01	Acquire advanced problem-solving skills to apply theoretical knowledge in solving complex and practical problems across physics and chemistry.	CHM-101-CO1 CHM-101-CO5 CHM-102-CO3 CHM-201-CO3 CHM-202-CO1 CHM-401-CO4 TPHY101CO1 TPHY101CO5 TPHY102CO3 TPHY201CO1 TPHY202CO5 TPHY302CO5 TPHY402CO11 TPHY502CO1
PSO-UG-BSCNM02	Cultivate proficiency in laboratory techniques and experimental methodologies, emphasizing accurate observation, data analysis and the application of scientific methods.	CHM-301-CO5 CHM-401-CO2 CHM-502-CO2 CHM-602-CO3 CHM-601-CO3 CHM-601-CO9 TPHY101CO3 TPHY102CO1 TPHY201CO8 TPHY301CO4 TPHY402CO9 TPHY502CO10 TPHY602CO2
PSO-UG-BSCNM03	Develop critical thinking skills to assess, evaluate, and interpret scientific information, promoting analytical reasoning in diverse scientific contexts.	CHM-102-CO9 CHM-201-CO4 CHM-301-CO1 CHM-402-CO4 CHM-602-CO3 TPHY101CO6 TPHY102CO5 TPHY201CO4 TPHY301CO2 TPHY402CO10 TPHY502CO3 TPHY602CO6
PSO-UG-BSCNM04	Enhance communication skills and collaborative abilities, enabling effective interaction with peers and the dissemination of scientific knowledge.	CHM-101-CO3 CHM-101-CO6 CHM-102-CO2 CHM-102-CO5 CHM-102-CO10 CHM-201-CO2 CHM-202-CO3 CHM-202-CO5

		CHM-202-CO9T PHY101CO7 TPHY102CO2 TPHY201CO6 TPHY301CO10 TPHY402CO8 TPHY502CO3 TPHY602CO6
PSO-UG-BSCNM05	Acquire knowledge about developments in any science subject and employ an interdisciplinary approach to offer improved solutions and generate new ideas for sustainable development.	CHM-101-CO7 CHM-102-CO8 CHM-201-CO9 CHM-202-CO7 CHM-301-CO6 CHM-302-CO10 CHM-401-CO9 TPHY101CO5 TPHY102CO7 TPHY201CO1 TPHY301CO3 TPHY402CO8 TPHY502CO7 TPHY602CO5
PSO-UG-BSCNM06	Recognize the importance of lifelong learning and stay updated with advancements in the field.	CHM-102-CO7 CHM-201-CO8 CHM-202-CO10 CHM-301-CO7 CHM-402-CO1 CHM-502-CO3 TPHY101CO1 TPHY102CO3 TPHY201CO5 TPHY301CO9 TPHY402CO7 TPHY502CO10 TPHY602CO6
PSO-UG-BSCNM07	Foster scientific aptitude, encouraging an open-minded, critical and curious mindset to address all aspects related to life.	CHM-102-CO6 CHM-201-CO8 CHM-201-CO5 CHM-202-CO8 TPHY101CO3 TPHY102CO8 TPHY201CO6 TPHY301CO7 TPHY402CO10 TPHY502CO5 TPHY602CO6
PSO-UG-BSCNM08	Apply acquired knowledge and skills to adapt to evolving scientific challenges, demonstrating the versatility to address problems beyond the confines of individual disciplines.	CHM-202-CO3 CHM-301-CO3 CHM-302-CO7 CHM-401-CO7 CHM-501-CO8

		CHM-601-CO8 CHM-601-CO4 CHM-602-CO7 CHM-602-CO10 TPHY101CO9 TPHY102CO10 TPHY201CO5 TPHY301CO7 TPHY402CO9 TPHY502CO6 TPHY602CO1
PSO-UG-BSCNM09	Prepare students for further studies or careers in scientific research, engineering, technology, or related fields by providing a solid foundation in the core principles and methodologies of physics and chemistry.	CHM-201-CO6 CHM-201-CO7 CHM-601-CO1 CHM-601-CO2 CHM-601-CO7 CHM-602-CO1 CHM-602-CO2 CHM-602-CO8 CHM-602-CO9 TPHY101CO10 TPHY102CO5 TPHY201CO7 TPHY301CO3 TPHY402CO8 TPHY502CO2 TPHY602CO4

Programme and Course Outcomes
Faculty of Arts

Programme Offered

BA

PROGRAMME SPECIFIC OUTCOME

PO & NO	PROGRAMME SPECIFIC OUTCOME
PSOUGBA01	Improve four basic skills of language (listening, speaking, reading and writing)
PSOUGBA02	Holistic understanding of English, Punjabi and Hindi Language literature
PSOUGBA03	Critical interpretation of meanings and references of literary texts
PSOUGBA04	Understand the various political aspects of various international issues and problems
PSOUGBA05	Demonstrate thinking skills by analysing, synthesizing and evaluating historical information from various sources.
PSOUGBA6	Recognize the social, political, economic, religious and cultural aspects of Punjab history and understand the background of religions and customs of Punjab.
PSOUGBA7	Describe how Physical education provides a great opportunity for students to attain physical and mental balance in their life which would help them in their academic and overall growth in life.
PSOUGBA8	Demonstrate knowledge of sociological concepts and theories.

COURSE OUTCOMES

COURSE: GENERAL ENGLISH

CODE&NO	COURSE OUTCOME
ENC101CO01	ANALYZE AND EVALUATE DIFFERENT SHORT STORIES
ENC101CO02	RELATE THE STORY TO THE REAL LIFE
ENC101CO03	DISCUSS THE SIGNIFICANCE OF THE HISTORICAL PERIOD IN WHICH THE STORY WAS WRITTEN
ENC101CO04	DEFINE THE NECESSARY ELEMENTS OF A SHORT STORY
ENC101CO05	APPRECIATE THE DIVERSE GENRES AND STYLES OF PROSE
ENC101CO06	DEFINE PROSE AND ITS ROLE IN WRITING
ENC101CO07	DEMONSTRATE THE ABILITY TO WRITE IN DIFFERENT STYLES OF PROSE
ENC101CO08	UNDERSTAND AND CRITIQUE SENTENCE STRUCTURE AND A VARIETY OF SENTENCES
ENC101CO09	DEVELOP EFFECTIVE WRITING AND VERBAL COMMUNICATION
ENC101CO10	UNDERSTAND AND APPLY THE GRAMMATICAL RULES TAUGHT

NOTE: ENC101CO01 STANDS FOR GENERAL ENGLISH FIRST SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
ENC102CO01	ANALYZE AND EVALUATE DIFFERENT SHORT STORIES
ENC102CO02	RELATE THE STORY TO THE REAL LIFE
ENC102CO03	DISCUSS THE SIGNIFICANCE OF THE HISTORICAL PERIOD IN WHICH THE STORY WAS WRITTEN
ENC102CO04	DEFINE THE NECESSARY ELEMENTS OF A SHORT STORY
ENC102CO05	APPRECIATE THE DIVERSE GENRES AND STYLES OF PROSE
ENC102CO06	DEFINE PROSE AND ITS ROLE IN WRITING
ENC102CO07	DEMONSTRATE THE ABILITY TO WRITE IN DIFFERENT STYLES OF PROSE
ENC102CO08	UNDERSTAND AND CRITIQUE SENTENCE STRUCTURE AND A VARIETY OF SENTENCES
ENC102CO09	DEVELOP EFFECTIVE WRITING VERBAL COMMUNICATION
ENC102CO10	UNDERSTAND AND APPLY THE GRAMMATICAL RULES TAUGHT

NOTE: ENC102CO01 STANDS FOR GENERAL ENGLISH SECOND SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
ENC103CO01	IMPROVE THE FOUR BASIC LANGUAGE SKILLS
ENC103CO02	UNDERSTAND THE GRAMMAR RULES AND ITS USAGE
ENC103CO03	ENHANCE VOCABULARY
ENC103CO04	REFLECT AND WRITE THOUGHTS IN ESSAY WRITING
ENC103CO05	RECITE AND CREATE POEMS
ENC103CO06	DEFINE MULTICULTURALISM AND ITS ADVANTAGES AND DISADVANTAGES
ENC103CO07	DEEP UNDERSTANDING OF THE BOOK 'MAKING CONNECTIONS'

NOTE: ENC103CO01 STANDS FOR GENERAL ENGLISH THIRD SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
ENC104CO01	IMPROVE THE FOUR BASIC LANGUAGE SKILLS
ENC104CO02	UNDERSTAND THE GRAMMAR RULES AND ITS USAGE
ENC104CO03	ENHANCE VOCABULARY
ENC104CO04	REFLECT AND WRITE THOUGHTS IN ESSAY WRITING
ENC104CO05	RECITE AND CREATE POEMS
ENC104CO06	DEFINE MULTICULTURALISM AND ITS ADVANTAGES AND DISADVANTAGES
ENC104CO07	DEEP UNDERSTANDING OF THE BOOK 'MAKING CONNECTIONS'

NOTE: ENC104CO01 STANDS FOR GENERAL ENGLISH FOURTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
ENC105CO01	FAMILIARIZE THE LEARNERS WITH DIFFERENT FORMS OF POETRY FROM ACROSS THE WORLD
ENC105CO02	CREATE AWARENESS AMONG THE LEARNERS ABOUT THE CULTURES AND THEIR REPRESENTATION IN TEXTS
ENC105CO03	DEVELOP CRITICAL THINKING ABILITY
ENC105CO04	ENSURE A RICH VARIETY OF LITERARY UNDERSTANDING AND EXPRESSION
ENC105CO05	CREATE SHORT PLAYS AND ENACT THEM
ENC105CO06	IMPROVE ABILITY TO EXPRESS THEMSELVES IN ENGLISH
ENC105CO07	DISCOVER THE PLEASURES IN READING FICTION
ENC105CO08	RECOGNIZE DIFFERENT TYPES OF FICTIONAL NARRATIVES

NOTE: ENC105CO01 STANDS FOR GENERAL ENGLISH FIFTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
ENC106CO01	CREATE SHORT STORIES OF THEIR OWN
ENC106CO02	INSIGHT INTO DEEP UNDERSTANDING OF THE HUMAN CONDITIONS AND THE COMPLEXITIES OF LIFE THROUGH THE NOVEL 'THE GUIDE'.
ENC106CO03	RECOGNIZE DIFFERENT TYPES OF FICTIONAL NARRATIVES AND ANALYZE TECHNIQUES USED IN THE NOVEL
ENC106CO04	DESCRIBE VARIOUS ASPECTS OF THE TRADITIONAL INDIA
ENC106CO05	FAMILIARIZE NOVEL, ITS TYPES AND ORIGIN
ENC106CO06	UNDERSTAND DEEPLY THE ONE ACT PLAYS BY ANALYZING 'GLIMPSES OF THEATRE'.
ENC106CO07	DEVELOP ABILITY TO WRITE QUALITY APPLICATIONS
ENC106CO08	IMPROVE ABILITY TO PREPARE RIGHT CVs AND E MAILS.

NOTE: ENC106CO01 STANDS FOR GENERAL ENGLISH SIXTH SEMESTER COURSE OUTCOME

COURSE – ELECTIVE ENGLISH

CODE&NO	COURSE OUTCOME
EE101CO01	EXPLAIN THE IMPORTANT ENGLISH LITERARY TERMS
EE101CO02	COMPREHEND THE TERM DRAMA AND ITS HISTORY
EE101CO03	DEEP UNDERSTANDING OF THE PLAY ‘A DOLL’S HOUSE’ BY HENRIK IBSEN
EE101CO04	ENGAGE IN PRACTICE OF TRANSCRIPTION OF WORDS
EE101CO05	ANALYSE THE CRITICAL IDEAS AND VALUES
EE101CO06	INCULCATE MORAL VALUES
EE101CO07	BUILD CROSS CULTURAL UNDERSTANDING
EE101CO08	DECODE AND INTERPRET SOUNDS
EE101CO09	READ AND UNDERSTAND DIFFERENT ASPECTS OF POETRY
EE101CO10	CREATE OWN POEMS

NOTE: EE101CO01 STANDS FOR ELECTIVE ENGLISH FIRST SEMESTER COURSE OUTCOME

5CODE&NO	COURSE OUTCOME
EE102CO01	ENGAGE IN PRACTICE OF TRANSCRIPTION OF WORDS
EE102CO02	EXPLAIN THE IMPORTANT ENGLISH LITERARY TERMS
EE102CO03	REVIEW LITERATURE
EE102CO04	DEEP UNDERSTANDING OF THE NOVEL ‘UNTOUCHABLE’ BY MULK RAJ ANAND
EE102CO05	DEEP KNOWLEDGE OF THE PLAY ‘THE SCHOOL FOR SCANDAL’ BY SHERIDAN
EE102CO06	ANALYSE THE CRITICAL IDEAS AND VALUES
EE102CO07	INCULCATE MORAL VALUES
EE102CO08	DECODE AND INTERPRET SOUNDS

NOTE: EE102CO01 STANDS FOR ELECTIVE ENGLISH SECOND SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
EE103CO01	IMPROVE FOUR BASIC SKILLS
EE103CO02	REVIEW LITERATURE
EE103CO03	CROSS CULTURAL UNDERSTANDING BY READING ‘NEW DIRECTIONS’
EE103CO04	WRITE AND RECITE POEMS BY READING ‘FRESH SHOWERS’
EE103CO05	ANALYZE THE CRITICAL IDEAS AND VALUES
EE103CO06	DEEP UNDERSTANDING BY READING ‘ANIMAL FARM’ BY GEORGE ORWELL
EE103CO07	CREATE STORIES AND POEMS
EE103CO08	IMPROVE PRONUNCIATION BY PRACTICING ‘BETTER PRONUNCIATION OF ENGLISH’
EE103CO09	PARAPHRASE OWN IDEAS AND THOUGHTS
EE103CO10	PRACTICE THE TRANSCRIPTION OF WORDS

NOTE: EE103CO01 STANDS FOR ELECTIVE ENGLISH THIRD SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
EE104CO01	IMPROVE FOUR BASIC SKILLS
EE104CO02	REVIEW LITERATURE
EE104CO03	CROSS CULTURAL UNDERSTANDING BY READING 'NEW DIRECTIONS'
EE104CO04	UNDERSTAND THE IDEAS BEHIND STORIES BY READING 'DISPELLING SILENCE'
EE104CO05	ANALYZE THE CRITICAL IDEAS AND VALUES
EE104CO06	DEEP UNDERSTANDING BY READING 'MODERN PROSE'
EE104CO07	CREATE STORIES AND POEMS
EE104CO08	IMPROVE PRONUNCIATION BY PRACTICING 'BETTER PRONUNCIATION OF ENGLISH'
EE104CO08	PARAPHRASE OWN IDEAS AND THOUGHTS
EE104CO09	PRACTICE THE TRANSCRIPTION OF WORDS

NOTE: EE104CO01 STANDS FOR ELECTIVE ENGLISH FOURTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
EE105CO01	IDENTIFY LITERARY TECHNIQUES AND CREATIVE USES OF LANGUAGE IN LITERARY TEXTS
EE105CO02	DEVELOP A THOROUGH KNOWLEDGE OF LITERARY HISTORY AND THEORY
EE105CO03	UNDERSTAND AND DEVELOP WRITING SKILLS
EE105CO04	DEFINE THE ELEMENTS AND VARIOUS TYPES OF POETRY
EE105CO05	IDENTIFY THE LITERARY TERMS
EE105CO06	APPLY KNOWLEDGE AND UNDERSTANDING WHEN MAKING, PERFORMING AND RESPONDING TO DRAMA
EE105CO07	COMPARE DRAMAS OF DIFFERENT LITERARY PERIODS
EE105CO08	DEVELOP A RANGE OF THEATRICAL SKILLS INCLUDING SELF EXPRESSION
EE105CO09	ANALYZE THE ELEMENTS OF NOVEL
EE105CO10	EXPLAIN THE HISTORY OF NOVEL AND CONDITIONS THAT HELPED NOVEL TO EMERGE AS A LITERARY GENRE.
EE105CO11	DEFINE THE NECESSARY ELEMENTS OF A SHORT STORY
EE105CO12	EXPLAIN THE HISTORY OF ESSAY AND DESCRIBE ITS VARIOUS ELEMENTS.

NOTE: EE105CO01 STANDS FOR ELECTIVE ENGLISH FIFTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
EE106CO01	UNDERSTAND THE SITUATION SURROUNDING THE PARTITION OF INDIA IN THE NOVEL 'TRAIN TO PAKISTAN'
EE106CO02	SHED LIGHT ON THE VARIOUS RELIGIOUS PRACTICES OF BOTH MUSLIMS AND SIKHS IN RURAL INDIA
EE106CO03	COMPREHEND AND EXPLAIN VARIOUS THEMES OF LOVE&HATE, BEAUTY&SUFFERING, GOOD &EVIL ETC. IN THE NOVEL 'THE POWER AND THE GLORY'.
EE106CO04	EXPLAIN THE ORIGIN OF ENGLISH DRAMA AND ENGLISH THEATRE
EE106CO05	UNDERSTAND AND EXPLAIN SHAKESPEAREAN COMEDY, TRAGEDY, ROMANCE, ENGLISH AND HISTORICAL PLAYS AND ROMAN PLAYS
EE106CO06	DEFINE DRAMATIC MODERNISM
EE106CO07	RECOGNIZE THE STRUCTURES OF BIOGRAPHY AND AUTO BIOGRAPHY AS DISTINCT FORMS OF LITERATURE
EE106CO08	COMPARE AND CONTRAST THE WAYS IN WHICH A LIVING INDIVIDUAL IS TREATED IN VARIOUS LITERARY GENRES
EE106CO09	DEFINE CRITICISM AND STYLE IN LITERATURE

NOTE: EE106CO01 STANDS FOR ELECTIVE ENGLISH SIXTH SEMESTER COURSE OUTCOME

Course: Elective Hindi

SEM 1

पेपर:- आधुनिक कविता व्याकरण तथा अनुवाद

EH101CO01	पुस्तक काव्य कुंज में आए कवियों तथा उनकी कविताओं का बोध करवाना
EH101CO02	छात्रों को व्याकरण एक सिद्धांतों की जानकारी देना
EH101CO03	छात्रों को हिंदी साहित्य का परिचय देना
EH101CO04	छात्रों को पत्राचार का बोध करवाना
EH101CO05	छात्रों को परिभाषित शब्दावली का प्रयोग बताना

Sem 2

पेपर :- गद्य साहित्य सिद्धांत की व्याकरण तथा पत्रकारिता

EH102CO01	छात्रों को पुस्तक गद्य सौरव का ज्ञान देना
EH102CO02	छात्रों को गद्य साहित्य की विधाओं से परिचित करवाना
EH102CO03	छात्रों को समकालीन साहित्य से अवगत करवाना
EH102CO04	छात्रों को व्यावहारिक पत्रों का बोध करवाना
EH102CO05	छात्रों को व्याकरण के सिद्धांतों की जानकारी देना की

SEM 3

पेपर :- मध्ययुगीन काव्य, इतिहास, व्याकरण तथा काव्यांश

EH103CO01	छात्रों को पुस्तक काव्य चिंतन से अवगत करवाना
EH103CO02	छात्रों को हिंदी साहित्य के आदिकाल की जानकारी देना
EH103CO03	छात्रों को मध्ययुगीन हिंदी काव्य की मूल संवेदना से परिचित करवाना
EH103CO04	छात्रों को हिंदी व्याकरण का व्यावहारिक ज्ञान देना
EH103CO05	मध्ययुगीन हिंदी काव्य के मूल उद्देश्य का बोध करवाना

SEM 4

पेपर :- उपन्यास नाटक सिद्धांत की व्याकरण तथा भक्तिकाल

EH104CO01	छात्रों को भक्तिकालीन रचित साहित्य का अध्ययन करवाना
EH104CO02	गद्य की विधाओं की सैद्धांतिक समीक्षा से अवगत करवाना
EH104CO03	मुंशी प्रेमचंद के उपन्यास निर्मला का सामाजिक अध्ययन करना
EH104CO04	लक्ष्मी नारायण लाल के नाटक हैमस्टर अभिमन्यु का अध्ययन और विवेचन
EH104CO015	छात्रों को हिंदी व्याकरण का व्यावहारिक ज्ञान देना

SEM 5

पेपर विशिष्ट कवि एवं काव्य सिद्धांत कामकाजी हिंदी और रीतिकाल

EH105CO01	हिंदी साहित्य के रीतिकाल का बोधात्मक अध्ययन
EH105CO02	रामधारी सिंह दिनकर के खंडकाव्य रश्मिरथी का सूक्ष्म अध्ययन
EH105CO03	पद्य की विधाओं की सैद्धांतिक समीक्षा
EH105CO04	कामकाजी हिंदी का बोध करवाना
EH105CO05	हिंदी पद्य लेखन के छंदों से अवगत करवाना

SEM 6

पेपर लघु विधाएँ, आधुनिक काल, निबंध लेखन तथा पारिभाषिक शब्दावली

EH106CO01	हिंदी साहित्य के आधुनिक काल का बोध करवाना
EH106CO02	आधुनिक काल में हिंदी साहित्य के विकासात्मक क्रम का अध्ययन करना
EH106CO03	पुस्तक गद्य बहुरंग का सूक्ष्म अध्ययन करना
EH106CO04	हिंदी साहित्य की नव्यतर गद्द विधाओं का बोध करवाना
EH106CO05	पारिभाषिक शब्दावली का दिशा एवं प्रयोग

Course: History

CODE&NO	COURSE OUTCOME
H101CO01	Understand the major sources of Ancient Indian history
H101CO02	Understand the salient features of Indus civilization.
H101CO03	Understand the vedic culture,society,economy,polity and religion
H101CO04	Evaluate the features of Buddhism and Jainism.
H101CO05	Visualize the administration of Mauryas and the Dhamma of Ashoka.
H101CO06	Identify the achievements of Gupta Empire and their cultural and scientific developments.
H101CO07	Know about the Kushanas, and Chola
H101CO08	Understand about the Age of the Vardhana
H101CO09	Understand the important ancient historical places on map of India and extent of Mauryan Empire.

NOTE: H101CO01 STANDS FOR (History) FIRST SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
H102CO01	Understand the foundation of the Delhi sultanate and the Sultanate administration.
H102CO02	Recognise the Socio, economic and religious conditions under Vijayanagar Empire
H102CO03	Identify the condition of India under the Mughal Empire.
H102CO04	Explain the Administration and decline of Mughals.
H102CO05	Analyse the rise of the Marathas and the contribution of Shivaji.
H102CO06	Understand about the Khiljis and Conquests of the Ghaznavis and Ghauris

NOTE: H102CO01 STANDS FOR B.A (History) SECOND SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
H103CO01	Discuss the advent of Europeans and their administration
H103CO02	Evaluate the various causes of revolt of 1857 and its results.
H103CO03	Understand the British agrarian policies and deindustrialization.
H103CO04	Understand about the Socio-religious reform movements in 19th century.
H103CO05	State the role of moderates and extremists in the freedom movement.
H103CO06	.Discuss the making of new constitution.
H103CO07	Understand about the Early Political Associations and Emergence of Revolutionary Terrorism

NOTE: H103CO01 STANDS FOR B.A (History) THIRD SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
H104CO01	Understand the foundation of sikh religion.
H104CO02	Evaluate the life and teachings of Guru Nanak Devji.
H104CO03	Understand the contribution of the all gurus in the spread of Sikhism
H104CO04	Explain the region of Maharaja Ranjit Singh.
H104CO05	Under stand the role of Banda Bahadur in history of Punjab and Misil period history.
H104CO06	Understand the Political Organisations of the Sikhs in the 18th Century.

NOTE: H104CO01 STANDS FOR B.A (History) FOURTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
H105CO01	Understand the rise of modern world
H105CO02	Evaluate the American revolution and French revolution
H105CO03	Discuss the role of Nepoleon in the World political system.
H105CO04	Understand the major events of unification of Italy and Germany.
H105CO05	Discuss the rise of new type of imperialism in the world.
H105CO06	Understand the division of Europe into two parts and World War – I.

NOTE: H105CO01 STANDS FOR (History) FIFTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
H106CO01	Explain the British administration after the annexation of Punjab.
H106CO02	Understand the British agrarian policies.
H106CO03	Understand the introduction of modern education.
H106CO04	Learn about the socio- religious activities
H106CO05	Explain the growth of political consciousness
H106CO06	Understand the formation of Punjabi Suba and reorganization act 1966.
H106CO07	Understand about the historical places of Punjab

NOTE: H106CO01 STANDS FOR (History) SIXTH SEMESTER COURSE OUTCOME

Course : Physical Education

Theory	Semester-I
PED101CO01	Define Education, Physical Education, Training & Coaching.
PED101CO02	Describe the Biological principles.
PED101CO03	Describe how about pre- and post-independence development of physical education in India.
PED101CO04	Understand and learn about ancient Olympic games, modern Olympic games and common wealth games
PED101CO05	Understands the importance of various schemes in sports and their functions.
PED101CO06	List the basic fundamentals of volleyball and Cricket.
Practical	<ol style="list-style-type: none"> 1. Measurements (volleyball court, net, poles, antenna and ball). 2. Number and position of players and officials. 3. Types of service (under arm service, side arm service and tennis service). 4. Types of passes (under hand and overhead pass). 5. Rules of the game.
PED101CO07	Sprints (Types of Start and Finish)
PED101CO08	Crouch start-fixing of starting blocks, getting in and off the block, emphasizing on body position, need of starting blocks in a sprint race.
PED101CO09	Practice of starts with starting blocks using proper commands.
PED101CO10	Training the students for correct running style.
PED101CO11	Practice of finishing the sprint with different techniques. Rules and Regulations of Sprint races.

Semester-II

PED102CO01	Understand the Cell: Structure and Function.
PED102CO02	Examine Skeletal System, muscular system: structure and function of system.
PED102CO03	Recognize the importance of warming-up and cooling down in sports and its significance.
PED102CO04	Understand air and water pollution and its remedial measures..
PED102CO05	Aware about the importance of health education.
Practical PED102CO06	List the basic fundamentals of Handball and kho-Kho.
PED102CO07	Understand Middle Distance, Long Distance and Walking events.
PED102CO08	Analyze the Marking of standard tracks, width of lanes and starting points for various races.
PED102CO09	Draw practical of Standing Start.
PED102CO010	State Correct running and walking style, emphasis on proper body position and foot placement.
PED102CO11	Running Tactics, Rules of competition.

Semester-III	
PED103CO01	Understand the psychological characteristics and identify problems of an adolescence.
PED103CO02	Discuss the Importance of motivation in physical education and sports.
PED103CO03	Identify and Study various factors affecting the development of personality.
PED103CO04	Understand making and layout of field.
Practical PED103CO05	Point the basic fundamentals rules of football and Wrestling.
Semester-IV	
PED104CO01	Understand about aims and objective and types of Yoga.
PED104CO02	Discuss about the Pranayam, Shudhi Kriya, and its objective physiological value.
PED104CO03	Describe the Knowledge about the different system of the body.
PED104CO04	Analyze the effect of different systems on body.
Practical PED104CO05	Describe the basic fundamentals rules of hockey and yoga.
Semester-V	
PED105CO01	Understand about Recreation, Meaning and types of Recreation.
PED105CO02	Understand about Different Sports Awards.
PED105CO03	Understand about the Law of Motion and its Types.
PED105CO04	List the different types of Posture, Postural Deformities and their corrective exercises.
Practical PED105CO05	Identify the rules and regulations of the Basketball and Judo.

Semester-VI

PED106CO01	CO-1. Understand about the common sports Injuries.
PED106CO02	CO-2. Understand the meaning and types of tournaments and its merits and demerits.
PED106CO03	CO-3. Understand the Intra mural and Extra Mural Sports Competition and its importance.
PED106CO04	CO-4. Write the main organs of excretory system and their functions.
PED106CO05	CO-5 Understand about the fitness components.
PED106CO06	CO-6. Discuss about the different training methods.
Practical PED106CO07	CO-7. Identify the rules and regulations of the Kabaddi and Badminton. <ol style="list-style-type: none">1. Measurements (Kabaddi court for men and women).2. Number of players and officials.3. Fundamental offensive skills, touching with hand, leg thrust, front kick, side kick, Mule4. Kick, jump and dive counter.5. Defensive Skill (wrist catch, normal grip, ankle catch, knee catch and chain formation).

Course: Political Science

Course Code	Course Outcome
TBAPS01	CO.1 Describe the concept of Political Science
	CO.2 Understand the concept of state and government.
	CO.3 Differentiate the various approaches to state
	CO.4 Describe the elements of sovereignty
	CO.5 Recognize the role of political participation
TBAPS02	CO.1 Explain the concept of political system
	CO.2 Understand the importance of political culture & Political socialization
	CO.3 Identify the concept of power, authority Legitimacy
	CO.4 Describe the pillars of Democracy(Liberty,Equality,Justice)
	CO.5 Elaborate the concept and theories of democracy
TBAPS03	CO 1.Describe the Nature of Indian Constitution
	CO 2.Explain the nature of Indian federalism
	CO 3. Understand the importance of Fundamental rights and Duties, Directive Principles
	CO.4 Explain the organs of Government(Legislature, Executive, Judiciary)
	CO5. Differentiate between organs of government in center and state
TBAPS04	CO.1 Explain the nature of political parties in India
	CO.2 Compare the ideology of regional parties
	CO.3 Elaborate the Election commission of India
	CO.4 Critically evaluate the electoral process in India
	CO.5 Examine the impact of caste and religion in Indian of politics
	CO.6 Highlights the emerging trends in Indian politics
	CO.7 Evaluate the basic principles of Indian foreign policy

	CO.8 Examine the impact of Globalization on Indian politics
TBAPS05	CO.1 Discuss the concept of comparative government and political
	CO.2 Explain the various approaches to comparative study of political system
	CO.3 Compare the features of American and British constitution
	CO.4 Analyze the Executive in America and Britain
	CO.5 Examine the functioning of legislature in America and Britain
	CO.6 Evaluate the role of political parties and pressure groups in America and Britain
	CO.7 Critically analyze the role of judiciary in USA and UK
	CO.8 compare the nature of state in UK and USA
TBAPS06	CO.1 Explain the concept of international politics
	CO.2 Discuss the approaches to international politics
	CO.3 Describe the elements of national power
	CO.4 Identify Various methods to power management
	CO.5 Understand the emerging trends in world order
	CO.6 Point out the issues in global environment
	CO.7 Analyze the problem of terrorism
	Co.8 Critically evaluate the role of U.N.O
	Co.9 Examine the contribution of regional organization

COURSE: SOCIOLOGY

FUNDAMENTALS OF SOCIOLOGY (PAPER-I)

CO CODE & No.	COURSE LEARNING OUTCOMES
TBASO101 CO1	Explain the nature, scope and importance of sociology
TBASO101 CO2	Analyze the relationship between sociology and other social sciences
TBASO101 CO3	Describe the basic concepts of sociology; society, community, association and institution
TBASO101 CO4	Discuss the various types of groups; primary, secondary and reference
TBASO101 CO5	Demonstrate the process, agencies and stages of socialization

NOTE: TBASO101 COI-FUNDAMENTALS OF SOCIOLOGY

FUNDAMENTALS OF SOCIOLOGY (PAPER-II)

CO CODE & No.	COURSE LEARNING OUTCOMES
TBASO201 CO1	Explain the elements of social structure
TBASO201 CO2	Discuss the concept of 'Cultural Lag'
TBASO201 CO3	Describe the various forms of social stratification; caste, class and gender
TBASO201 CO4	Compare the various forms of social mobility
TBASO201 CO5	Demonstrate the significance of social control
TBASO201 CO6	Articulate various forms responsible for social disorganization i.e. Corruption, Crime and Terrorism

NOTE: TBASO201 COII-FUNDAMENTALS OF SOCIOLOGY

SOCIETY IN INDIA (PAPER-III)

CO CODE & No.	COURSE LEARNING OUTCOMES
TBASO301 CO1	Analyse the Unity in Diversity
TBASO301 CO2	Discuss the social issues i.e. Communalism, Casteism, Gender, Human Rights
TBASO301 CO3	Describe the various functions and changes in marriage system in Indian Society
TBASO301 CO4	Describe the various functions and changes in family system in Indian Society
TBASO301 CO5	List the terminology of Kinship
TBASO301 CO6	Compare the concept of caste and class
TBASO301 CO7	Critically evaluate various societies in India; Tribal, Rural and Urban

NOTE: TBASO301 COIII-SOCIETY IN INDIA

SOCIAL CHANGE IN INDIA (PAPER-IV)

CO CODE & No.	COURSE LEARNING OUTCOMES
TBASO401 CO1	Analyse the various forms of social change; evolution, revolution, progress and development
TBASO401 CO2	List the various factors of social change; demographic, educational, legislative and industrialization
TBASO401 CO3	Demonstrate the processes of social change; Sanskritization, Westernization, Modernization, secularization, Urbanization and Globalization
TBASO401 CO4	Know the contemporary challenges; Dowry, Domestic Violence, Divorce, Elder Abuse, Female Foeticide

NOTE: TBASO301 COIV-SOCIAL CHANGE IN INDIA

SOCIAL THOUGHT (PAPER-V)

CO CODE & No.	COURSE LEARNING OUTCOMES
TBASO501 CO1	Analyse the three stages of Law
TBASO501 CO2	Articulate Biography of various sociological thinkers
TBASO501 CO3	Discuss the theoretical concepts of sociological thinkers
TBASO501 CO4	Critically evaluate the theories of the social thinkers

NOTE: TBASO501 COV-SOCIAL THOUGHT

SOCIAL RESEARCH AND SCIENTIFIC METHOD (PAPER-VI)

CO CODE & No.	COURSE LEARNING OUTCOMES
TBASO601 CO1	Explain the aims of Scientific Methods
TBASO601 CO2	Discuss the functions of social research
TBASO601 CO3	Apply the various types of research design; Exploratory, Descriptive and Experimental
TBASO601 CO4	Articulate the various types of sampling
TBASO601 CO5	Demonstrate competence with Quantitative and Qualitative approaches to formulating questionnaire, Interview schedule and case study for collecting data
TBASO601 CO6	Evaluate the various types of data analysis; Coding, Tabulation and Report Writing

NOTE: TBASO601 COVI-SOCIAL RESEARCH AND SCIENTIFIC METHOD

Course : Elective Punjabi

CODE&NO	COURSE OUTCOME
EP101CO01	ਵਿਦਿਆਰਥੀ ਨਾਮ ਬਾਣੀ, ਰਗਤ ਬਾਣੀ ਅਤੇ ਗੁਰਮਤਿ ਕਾਵਿ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
EP101CO02	ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਰੂਪਾਂ ਵਾਰ, ਚੰਗਨਾਮਾ, ਕਿੱਸਾ, ਕਾਫੀ ਤੋਂ ਜਾਣੂ ਹੁੰਦੇ ਹਨ।
EP101CO03	ਵਿਦਿਆਰਥੀ ਕਹਾਣੀ ਸਾਹਿਤ ਦੇ ਜਯੋਂਦੇ ਸਮਾਜਿਕ ਦਾਖਲੇ ਸੁਸਥਿਤਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
EP101CO04	ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਅਭੇਦਨਾ ਦੇ ਆਧੁਨਿਕ ਸੰਕਲਪਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸਾਹਿਤ ਰਚਨਾ ਪ੍ਰਤੀ ਸੁਚੇਤ ਹੁੰਦੇ ਹਨ।
EP101CO05	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀਆਂ ਪ੍ਰਮੁੱਖ ਰਚਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਨੈਤਿਕ ਕਦਮਾਂ ਕੀਮਤਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
EP101CO06	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।

CODE&NO	COURSE OUTCOME
EP103CO01	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੇ ਅਮੋਹ ਸਭਿਆਚਾਰ ਨੂੰ ਸਮਝਦੇ ਹਨ।
EP103CO02	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਰਾਗ ਅਤੇ ਗੁਰਮਤਿ ਲਿਪੀ, ਭਾਰਤੀ ਸੰਸਕ੍ਰਿਤੀ ਅਤੇ ਕਦਮਾਂ ਕੀਮਤਾਂ ਨੂੰ ਬੁਝਿਣ ਕਰਦੇ ਹਨ।
EP103CO03	ਵਿਦਿਆਰਥੀ ਪੰਚਕਾਲੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਤੇ ਧਾਰਮਿਕ ਆਰਾਮ ਮੁਲਦਾਨ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ ਅਤੇ ਸਾਹਿਤ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
EP103CO04	ਵਿਦਿਆਰਥੀ ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੀਆਂ ਕਦਮਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਆਪਣੇ
EP103CO05	ਸਭਿਆਚਾਰ ਨੂੰ ਗਲੋਬਲੀ ਪ੍ਰਸੰਗ ਵਿਚ ਪ੍ਰਸਤੁਤ ਕਰਦੇ ਹਨ।
EP103CO06	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਰਾਗ ਅਤੇ ਗੁਰਮਤਿ ਲਿਪੀ ਦਾ ਸੁੱਧ ਉਚਾਰਨ ਅਤੇ ਲਿਖਤੀ ਰੂਪ ਬੁਝਿਣ ਕਰਦੇ ਹਨ।

NOTE: EP103CO01 STANDS FOR ELECTIVE PUNJABI THIRD SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
EP104CO01	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੇ ਅਮੋਹ ਸਭਿਆਚਾਰ ਨੂੰ ਸਮਝਦੇ ਹਨ।
EP104CO02	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਰਾਗ ਅਤੇ ਗੁਰਮਤਿ ਲਿਪੀ, ਭਾਰਤੀ ਸੰਸਕ੍ਰਿਤੀ ਅਤੇ ਕਦਮਾਂ ਕੀਮਤਾਂ ਨੂੰ ਬੁਝਿਣ ਕਰਦੇ ਹਨ।
EP104CO03	ਵਿਦਿਆਰਥੀ ਪੰਚਕਾਲੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਤੇ ਧਾਰਮਿਕ ਆਰਾਮ ਮੁਲਦਾਨ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ ਅਤੇ ਸਾਹਿਤ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
EP104CO04	ਵਿਦਿਆਰਥੀ ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੀਆਂ ਕਦਮਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਆਪਣੇ
EP104CO05	ਸਭਿਆਚਾਰ ਨੂੰ ਗਲੋਬਲੀ ਪ੍ਰਸੰਗ ਵਿਚ ਪ੍ਰਸਤੁਤ ਕਰਦੇ ਹਨ।
EP104CO06	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਰਾਗ ਅਤੇ ਗੁਰਮਤਿ ਲਿਪੀ ਦਾ ਸੁੱਧ ਉਚਾਰਨ ਅਤੇ ਲਿਖਤੀ ਰੂਪ ਬੁਝਿਣ ਕਰਦੇ ਹਨ।

NOTE: EP104CO01 STANDS FOR ELECTIVE PUNJABI FOURTH SEMESTER COURSE OUTCOME

NOTE: EP101CO01 STANDS FOR ELECTIVE PUNJABI FIRST SEMESTER COURSE OUTCOME

5CODE&NO	COURSE OUTCOME
EP102CO01	ਵਿਦਿਆਰਥੀ ਪੁਰਾਤਨ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।
EP102CO02	ਵਿਦਿਆਰਥੀ ਪੁਰਾਤਨ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀਆਂ ਧਾਰਾਵਾਂ ਦੇ ਨਿਯਮਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
EP102CO03	ਵਿਦਿਆਰਥੀ ਕੋਸ਼ਕਾਰੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਕੋਸ਼ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਲਾਗੂ ਕਰਦੇ ਹਨ।
EP102CO04	ਵਿਦਿਆਰਥੀ ਕਹਾਣੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
EP102CO05	ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।
EP102CO06	ਵਿਦਿਆਰਥੀ ਦਫਤਰੀ ਅਤੇ ਘਰੇਲੂ ਚਿੱਠੀ ਪੱਤਰ ਲਿਖਣ ਪ੍ਰਤੀ ਸੂਝ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

NOTE: EP102CO01 STANDS FOR ELECTIVE PUNJABI SECOND SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
EP105CO01	ਵਿਦਿਆਰਥੀ ਸੂਫੀ ਕਾਵਿ ,ਬੀਰ ਕਾਵਿ ਅਤੇ ਕਿੱਸਾ ਬਾਰੇ ਮੁਲਵਾਨ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
EP105CO02	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਵਾਰਤਕ ਪ੍ਰਤੀ ਸੁਚੇਤ ਹੁੰਦੇ ਹੋਏ ਤੁਲਨਾਤਮਕ ਸਾਹਿਤ ਦੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
EP105CO03	ਵਿਦਿਆਰਥੀ ਕਾਵਿ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਭਾਰਤੀ ਸੰਸਕ੍ਰਿਤੀ ਅਤੇ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ।
EP105CO04	ਵਿਦਿਆਰਥੀ ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ ਦੇ ਰੂਪਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
EP105CO05	ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਅਲੋਚਨਾ ਦੇ ਸੰਕਲਪਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸ਼ਖਸੀਅਤ ਵਿਚ ਨਿਖਾਰ ਕਰਦੇ ਹਨ।
EP105CO06	ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀਨ ਸਾਹਿਤ ਪ੍ਰਤੀ ਸੁਚੇਤ ਹੁੰਦੇ ਹਨ।

NOTE: EP105CO01 STANDS FOR ELECTIVE PUNJABI FIFTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
EP106CO01	ਵਿਦਿਆਰਥੀ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਸਾਹਿਤ ਬਾਰੇ ਮੁੱਲਵਾਨ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।
EP106CO02	ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀਆਂ ਆਧੁਨਿਕ ਪ੍ਰਵਿਰਤੀਆਂ ਪ੍ਰਤੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
EP106CO03	ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਆਲੋਚਨਾਤਮਕ ਨਜ਼ਰੀਆ ਅਪਣਾਉਂਦੇ ਹਨ ਅਤੇ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।
EP106CO04	ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਨੂੰ ਪੜ੍ਹ ਕੇ ਸਮਾਜ ਵਿਚ ਔਰਤ ਦੀ ਦਸ਼ਾ ਨੂੰ ਦੇਖਦੇ ਹਨ ਉਸ ਪ੍ਰਤੀ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਨੂੰ ਉਤਸ਼ਾਹਿਤ ਹੁੰਦੇ ਹਨ।
EP106CO05	ਸਾਹਿਤ ਦੇ ਮੂਲ ਸੰਕਲਪਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸਾਹਿਤ ਸਿਰਜਣਾ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।
EP106CO06	ਸਾਹਿਤ ਦੇ ਆਧੁਨਿਕ ਰੂਪਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ ਅਤੇ ਵਿਹਾਰਕ ਅਲੋਚਨਾ ਦੇ ਸਿਧਾਂਤਾਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦੇ ਹਨ।

NOTE: EP106CO01 STANDS FOR ELECTIVE PUNJABI SIXTH SEMESTER COURSE OUTCOME

Course: General Punjabi

COURSE OUTCOME PUNJABI (COMPULSORY)

CODE&NO	COURSE OUTCOME
PC101CO01	ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਾਜਿਕ ਜ਼ਿੰਦਗੀ ਨਾਲ ਅੰਤਰ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹਨ।
PC101CO02	ਵਿਦਿਆਰਥੀ ਮਹਾਨ ਲੇਖਕਾਂ ਦੀਆਂ ਸਵੈ ਜੀਵਨੀਆਂ ਤੋਂ ਚੰਗੀਆਂ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।
PC101CO03	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੇ ਅਮੀਰ ਸਭਿਆਚਾਰ ਅਤੇ ਮਹਾਨ ਕਲਾਕਾਰਾਂ, ਚਿੱਤਰਕਾਰਾਂ ਆਦਿ ਦੀ ਜ਼ਿੰਦਗੀ ਮੁਮ ਆਲੋਚਨਾਤਮਕ ਅਤੇ ਸੂਖਮ ਨਜ਼ਰੀਏ ਤੋਂ ਵੇਖਦੇ ਹਨ।
PC101CO04	ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।
PC101CO05	ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਅਤੇ ਉਪਭਾਸ਼ਾਵਾਂ ਸੰਬੰਧੀ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
PC101CO06	ਵਿਦਿਆਰਥੀ ਪੈਰਾ ਰਚਨਾ ਅਤੇ ਸੰਖੇਪ ਰਚਨਾ ਕਰਨ ਸੰਬੰਧੀ ਸੂਚੇਤ ਹੋਣਗੇ।

NOTE: PC101CO01 STANDS FOR PUNJABI (COMPULSORY) FIRST SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PC102CO01	ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਾਜਿਕ ਜ਼ਿੰਦਗੀ ਨਾਲ ਅੰਤਰ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹਨ।
PC102CO02	ਵਿਦਿਆਰਥੀ ਮਹਾਨ ਲੇਖਕਾਂ ਦੀਆਂ ਸਵੈ ਜੀਵਨੀਆਂ ਤੋਂ ਚੰਗੀਆਂ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ
PC102CO03	ਵਿਦਿਆਰਥੀ ਜ਼ਿੰਦਗੀ ਦੀਆਂ ਸੱਚਾਈਆਂ ਜਿਵੇ, ਅਖਾਣ , ਮੁਹਾਵਰੇ, ਲੋਕ ਸਿਆਣਪਾ ਆਦਿ ਨੂੰ ਆਪਣ ਚਾਲ ਵਿਚ ਵਰਤਦੇ ਹਨ।
PC102CO04	ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।
PC102CO05	ਵਿਦਿਆਰਥੀ ਕਾਵਿ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਕਈ ਕਾਵਿ ਵਿਧਾਵਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਕਾਵਿ ਰਚਨਾਵਾਂ ਕਰਦੇ ਹਨ।
PC102CO06	ਵਿਦਿਆਰਥੀ ਸ਼ਬਦ ਰਚਨਾ ਅਤੇ ਸ਼ਬਦ ਬਣਤਰ ਦੇ ਸੰਕਲਪਾਂ ਪ੍ਰਤੀ ਜਾਣੂ ਹੋਣਗੇ

NOTE: PC102CO01 STANDS FOR PUNJABI (COMPULSORY) SECOND SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PC103CO01	ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਮਾਜਿਕ ਜ਼ਿੰਦਗੀ ਨਾਲ ਅੰਤਰ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹਨ।
PC103CO02	ਵਿਦਿਆਰਥੀ ਵਾਰਤਕ ਦੇ ਨਿਬੰਧ ਸਾਹਿਤ ਰੂਪ ਤੋਂ ਚੰਗੀਆਂ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਸਿੱਖਦੇ ਹਨ ਅਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।
PC103CO03	ਵਿਦਿਆਰਥੀ ਇਕਾਂਗੀ ਸਾਹਿਤ ਰਾਹੀਂ ਜ਼ਿੰਦਗੀ ਨੂੰ ਆਲੋਚਨਾਤਮਕ ਅਤੇ ਸੂਖਮ ਨਜ਼ਰੀਏ ਤੋਂ ਵੇਖਦੇ ਹਨ।
PC103CO04	ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।
PC103CO05	ਵਿਦਿਆਰਥੀ ਵਿਆਕਰਣਕ ਇਕਾਈਆਂ ਅਤੇ ਸ਼ਬਦ ਜੋੜ੍ਹਾਂ ਦੇ ਨਿਯਮ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹੋਏ ਸੁੱਧ ਪੰਜਾਬੀ ਲਿਖਣ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਹੋਣਗੇ।
PC103CO06	ਵਿਦਿਆਰਥੀ ਸੰਖੇਪ ਰਚਨਾ ਦੇ ਮੂਲ ਸੰਕਲਪਾਂ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਗੇ।

NOTE: PC103CO01 STANDS FOR PUNJABI (COMPULSORY) THIRD SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PC104CO01	ਵਿਦਿਆਰਥੀ ਜੀਵਨੀ ਸਾਹਿਤ ਵਿਚ ਸ਼ਾਮਲ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਪਛਾਣਦੇ ਹਨ।
PC104CO02	ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਸਾਹਿਤ ਰਾਹੀਂ ਚੰਗੀਆਂ ਕਦਰਾਂ ਕੀਮਤਾਂ ਦੇ ਨਾਲ ਨਾਲ ਪ੍ਰਬੰਧਕੀ ਢਾਂਚੇ ਪ੍ਰਤੀ ਵੀ ਸਮਝ ਰੱਖਦੇ ਹਨ।
PC104CO03	ਵਿਦਿਆਰਥੀ ਵਿਆਕਰਨ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ ਅਤੇ ਬੋਲਚਾਲ ਦੌਰਾਨ ਲਾਗੂ ਕਰਦੇ ਹਨ।
PC104CO04	ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਸਾਹਿਤ ਰਾਹੀਂ ਜ਼ਿੰਦਗੀ ਨੂੰ ਆਲੋਚਨਾਤਮਕ ਅਤੇ ਸੂਖਮ ਨਜ਼ਰੀਏ ਤੋਂ ਵੇਖਦੇ ਹਨ।
PC104CO05	ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਲੇਖ ਰਚਨਾ ਅਤੇ ਅਖਬਾਰੀ ਇਸ਼ਤਿਹਾਰ ਲਿਖਣ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਹੋਣਗੇ।
PC104CO06	ਵਿਦਿਆਰਥੀ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।

NOTE: PC104CO01 STANDS FOR PUNJABI (COMPULSORY) FOURTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PC105CO01	ਵਿਦਿਆਰਥੀ ਸਮਾਜ ਵਿਚਲੀਆਂ ਘਟਨਾਵਾਂ ਤੋਂ ਵਾਕਿਫ਼ ਹਨ ਜਿਸ ਕਰਕੇ ਉਹ ਸਾਹਿਤ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਾਜਿਕ ਘਟਨਾਵਾਂ ਨਾਲ ਅੰਤਰ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹਨ।
PC105CO02	ਵਿਦਿਆਰਥੀ ਸਮਾਜਿਕ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸਾਹਿਤ ਦੇ ਆਧਾਰ ਤੇ ਉਹਨਾਂ ਦਾ ਸਧਾਰਨੀਕਰਨ ਕਰਦੇ ਹਨ।
PC105CO03	ਵਿਦਿਆਰਥੀ ਨਾਵਲ ਅਤੇ ਕਹਾਣੀਆਂ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਸਮੱਸਿਆਵਾਂ ਜਿਵੇਂ, ਗਰੀਬੀ, ਲਿੰਗ ਅਤੇ ਜਾਤ ਅਧਾਰਿਤ ਵਿਤਕਰੇ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
PC105CO04	ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਨਾਵਲ ਅਤੇ ਮਿੰਨੀ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।
PC105CO05	ਵਿਦਿਆਰਥੀ ਵਿਆਕਰਨ ਦੇ ਸੰਕਲਪ ਕਾਰਕ ਅਤੇ ਕਾਰਕੀ ਸੰਬੰਧ ਅਤੇ ਵਾਕਾਤਮਕ ਜੁਗਤਾਂ ਦੇ ਨਿਯਮਾਂ ਦੀ ਪਾਲਣਾ ਕਰਨਗੇ।
PC105CO06	ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਲੇਖ ਰਚਨਾ ਅਤੇ ਇਸ਼ਤਿਹਾਰ ਲਿਖਣ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਹੋਣਗੇ।

NOTE: PC105CO01 STANDS FOR PUNJABI (COMPULSORY) FIFTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PC106CO01	ਵਿਦਿਆਰਥੀ ਅੰਡੇਮਾਨ ਨਿਕੋਬਾਰ ਦੇ ਟਾਪੂਆਂ ਦੇ ਸਭਿਆਚਾਰ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ ਅਤੇ ਨਵੀਂ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
PC106CO02	ਵਿਦਿਆਰਥੀ ਵੱਖੋ ਵੱਖਰੇ ਦੇਸ਼ਾਂ ਜਿਵੇਂ, ਸਵਿਟਜ਼ਰਲੈਂਡ, ਬੈਕਾਂਕ ਆਦਿ ਦੇ ਸਮਾਜਿਕ, ਰਾਜਨੀਤਿਕ ਅਤੇਆਰਥਿਕ ਗਤੀਵਿਧੀਆਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।
PC106CO03	ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿਚੋਂ ਸੂਫੀ ਕਾਵਿ, ਕਿੱਸਾ ਅਤੇ ਗੁਰਬਾਣੀ ਪ੍ਰਤੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਕੇ ਨੈਤਿਕ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਅਪਣਾਉਂਦੇ ਹਨ।
PC106CO04	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਸੁੱਧ ਗਿਆਨ ਹਾਸਿਲ ਕਰਕੇ ਸੁੱਧ ਪੰਜਾਬੀ ਬੋਲਦੇ ਹਨ।
PC106CO05	ਵਿਦਿਆਰਥੀ ਵਿਆਕਰਨ ਦੇ ਸੰਕਲਪ ਲਿੰਗ, ਵਚਨ ਅਤੇ ਨਾਂਵ ਤੇ ਕਿਰਿਆ ਵਾਕੰਸ਼ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
PC106CO06	ਵਿਦਿਆਰਥੀ ਲੇਖ ਰਚਨਾ ਅਤੇ ਆਧੁਨਿਕ ਸਾਹਿਤ ਦੇ ਰੂਪ ਜੀਵਨੀ, ਨਾਵਲ, ਨਾਟਕ, ਕਵਿਤਾ ਪ੍ਰਤੀ ਸੁਚੇਤ ਹੁੰਦੇ ਹੋਏ ਲਿਖਣ ਦੀ ਪ੍ਰੰਪਰਾ ਤੇ ਜਾਣੂ ਹੋਣਗੇ।

NOTE: PC106CO01 STANDS FOR PUNJABI (COMPULSORY) SIXTH SEMESTER COURSE OUTCOME

Course: Mudli (Basic) Punjabi

COURSE OUTCOME MUDHLI PUNJABI

CODE&NO	COURSE OUTCOME
MP101CO01	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP101CO02	ਵਿਦਿਆਰਥੀ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।
MP101CO03	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੀਆਂ ਰੁੱਤਾਂ, ਦੇਸੀ ਮਹੀਨਿਆਂ, ਸਾਕੇਦਾਰੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
MP101CO04	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।
MP101CO05	ਵਿਦਿਆਰਥੀ ਸ਼ਬਦ ਜੋੜਾਂ, ਪੈਂਤੀ ਅੱਖਰੀ ਅਤੇ ਮੁਹਾਰਨੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
MP101CO06	ਵਿਦਿਆਰਥੀ ਲਗਾਖਰ, ਸਵਰ, ਵਿਅੰਜਨ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਨਗੇ।

NOTE: MP 101CO01 STANDS FOR MUDHLI PUNJABI FIRST SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
MP102CO01	ਵਿਦਿਆਰਥੀ ਸਾਧਾਰਨ, ਸੰਯੁਕਤ ਅਤੇ ਮਿਸ਼ਰਤ ਸ਼ਬਦਾਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP102CO02	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।
MP102CO03	ਵਿਦਿਆਰਥੀ ਧਾਤੂ, ਅਗੇਤਰ, ਮਧੇਤਰ ਅਤੇ ਪਿਛੇਤਰ ਆਦਿ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
MP102CO04	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਵਚਨ, ਲਿੰਗ ਪੁਲਿੰਗ ਆਦਿ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
MP102CO05	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੀਆਂ ਰੁੱਤਾਂ, ਦੇਸੀ ਮਹੀਨਿਆਂ, ਸਾਕੇਦਾਰੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
MP102CO06	ਵਿਦਿਆਰਥੀ ਸਮਾਨਅਰਥਕ, ਬਹੁਅਰਥਕ, ਵਿਰੋਧੀ ਸ਼ਬਦਾਂ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

NOTE: MP102CO01 STANDS FOR MUDHLI PUNJABI SECOND SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
MP103CO01	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP103CO02	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਕਹਾਣੀਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP103CO03	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਵਿਆਕਰਣ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਲਿਖਤ ਪੱਧਰ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।
MP103CO04	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਨਿਬੰਧ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP103CO05	ਵਿਦਿਆਰਥੀ ਪਹਿਰਾ ਰਚਨਾ ਰਾਹੀਂ ਪੰਜਾਬ ਦੀਆਂ ਸਮਾਜਿਕ ਗਤੀਵਿਧੀਆਂ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ
MP103CO06	ਵਿਦਿਆਰਥੀ ਅਨੁਵਾਦ ਪਰੰਪਰਾ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।

NOTE: MP103CO01 STANDS FOR MUDHLI PUNJABI (COMPULSORY) THIRD SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
MP104CO01	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP104CO02	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਕਵੀਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP104CO03	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਵਿਚ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਲਿਖਤ ਪੱਧਰ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।
MP104CO04	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਲੇਖ ਰਚਨਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP104CO05	ਵਿਦਿਆਰਥੀ ਪਹਿਰਾ ਰਚਨਾ ਰਾਹੀਂ ਪੰਜਾਬ ਦੀਆਂ ਸਮਾਜਿਕ ਗਤੀਵਿਧੀਆਂ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ
MP104CO06	ਵਿਦਿਆਰਥੀ ਕਵਿਤਾ ਦੇ ਵਿਸ਼ੇ ਵਸਤੂ ਅਤੇ ਸਾਰ ਪਰੰਪਰਾ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।

NOTE: MP104CO01 STANDS FOR MUDHLI PUNJABI FOURTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
MP105CO01	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP105CO02	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਲੋਕ ਕਾਵਿ ਸੁਹਾਗ, ਘੋੜੀਆਂ, ਸਿੱਠਣੀਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP105CO03	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਲੋਕ ਨਾਚ ਗਿੱਧਾ, ਭੰਗੜਾ, ਝੂਮਰ ਦੇ ਨਿਯਮਾਂ ਤੋਂ ਜਾਣੂ ਹੋਣਗੇ।
MP105CO04	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਲੋਕ ਖੇਡਾਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP105CO05	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਲੋਕ ਤਮਾਸ਼ਿਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP105CO06	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਲੋਕ ਕਲਾਵਾਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

CODE&NO	COURSE OUTCOME
MP106CO01	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP106CO02	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਮੇਲਿਆਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP106CO03	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਤਿਉਹਾਰ ਅਤੇ ਧਾਰਮਿਕ ਸਥਾਨਾਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP106CO04	ਵਿਦਿਆਰਥੀ ਜਨਮ, ਵਿਆਹ ਅਤੇ ਮੌਤ ਸੰਬੰਧੀ ਰਸਮਾਂ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP106CO05	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀਆਂ ਦੇ ਖਾਣ ਪੀਣ, ਪਹਿਰਾਵੇ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
MP106CO06	ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਲੋਕ ਵਿਸ਼ਵਾਸ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

NOTE: MP106CO01 STANDS FOR MUDHLI PUNJABI SIXTH SEMESTER COURSE OUTCOME

Course : Punjab History and Culture

COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PHC101CO01	Understand the physical features of the Punjab and its impact on the history
PHC101CO02	Know about the sources of ancient history of punjab
PHC101CO03	Understand the Harappan civilization people
PHC101CO04	Evaluate the indo Aryans and their settlement in punjab
PHC101CO05	Analyse the social religious life during Rig vedic age
PHC101CO06	Evaluate the social religious economic life durning later vedic age
PHC101CO07	Understand the teachings and impact of Buddhism and jainism in the punjab

NOTE:PHC101CO01 STANDS FOR (Punjab History & culture) FIRST SEMESTER COURSE OUTCOME

5CODE&NO	COURSE OUTCOME
PHC102CO01	knowledge about the invasion of Alexander in india and its impacts
PHC102CO02	Understand the polity, economy, religion and administration of mauryan empire.
PHC102CO03	Know the kushanas rule in Punjab and their impacts on punjab
PHC102CO04	Explain the Punjab under the Gupta empire
PHC102CO05	Analyse the Punjab under the vardhana emperors and socio-cultural history of Punjab from 7 th to 1000 A.D.
PHC102CO06	Understand the development of language and education with special reference to taxila and also development of Art & Architecture.

NOTE: PHC102CO01 STANDS FOR B.A (Punjab History & culture) SECOND SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PHC103CO01	Understand the society and culture of Punjab during the turko-afghan rule.
PHC103CO02	Discuss Punjab under the Mughal rule.
PHC103CO03	Analyse the bhakti movement and its impact on society of Punjab.
PHC103CO04	Understand Sufism in Punjab with special reference to Baba farid
PHC103CO05	Know about guru nanak's life, teachings and travels.
PHC103CO06	Evaluate the contribution first five sikh gurus and martyadom of guru arjun dev.

NOTE: PHC103CO01 STANDS FOR B.A (Punjab History & Culture) THIRD SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PHC104CO01	Understand the new policy of guru hargobind and politicization of Sikhism.
PHC104CO02	Discuss the martyrdom of Guru Teg Bahadur.
PHC104CO03	Understand the Creation of khalsa and its impact on the punjab
PHC104CO04	Explain the role of Banda Bahadur in history of Punjab and Misil period history.
PHC104CO06	Know the rise of Maharaja Ranjit Singh's power and art and architecture, festivals and folk music during the medieval period in Punjab.

NOTE: PHC104CO01 STANDS FOR B.A (Punjab History & culture) FOURTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PHC105CO01	Evaluate the first anglo-sikh war and annexation of Punjab by the Britishers.
PHC105CO02	Evaluate the british policy towards Agriculture, industry, trade and commerce.
PHC105CO03	Discuss about the spread of the modern education.
PHC105CO04	Understand the social religious reform movements: namdhari, singh sabha and arya samaj
PHC105CO05	Discuss the gurudwara reform movement and contribution to freedom struggle: non-cooperation, HSRA and Quit India Movement.

NOTE: PHC105CO01 STANDS FOR (Punjab History & Culture) FIFTH SEMESTER COURSE OUTCOME

CODE&NO	COURSE OUTCOME
PHC106CO01	Explain the partition of punjab its impact on punjab
PHC106CO02	Understand the suba movement, reorganization act of 1996 and green revolution in Punjab.
PHC106CO03	Understand the development of education in Punjab after independence
PHC106CO04	Learn about development of Punjabi literature and drama.
PHC106CO05	Explain the emerging concerns of drug addiction and female foeticide.

NOTE: PHC106CO01 STANDS FOR (Punjab History & Culture) SIXTH SEMESTER COURSE OUTCOME

PO/CO Mapping for BA

PSOUGBA01	<p>ENC101CO01, 04,06,07,08,09 ENC102CO01, 03,04,06,07,08,09 ENC103CO01, 03,04,05,06 ENC104CO01,03,04,05,06 ENC105CO03,05,06,07 ENC106CO01,03,04</p>
PSOUGBA02	<p>ENC101CO01,04,05,07,08,09,10 ENC102CO01,04,05,07,08,09,10 ENC103CO01,02,04,05 ENC104CO01, 02,04,05 ENC105CO01,03,08 ENC106CO01,03,04,05</p> <p>EE101CO01,02,03,05,07,09,10 EE102CO02,03,04,05,06 EE103CO02,03,04,05,06,07 EE104CO02,03,04,05,06,07 EE105CO01,02,03,04,05,06,07,08,09,10 EE106CO01,02,03,04,05,06,07,08,09</p> <p>PC101CO05, PC102CO05, PC103CO05, PC104CO06, PC105CO05, PC106CO05</p> <p>EPC101CO02, EPC101CO06, EPC104CO02, EPC104CO05</p> <p>EH101CO01,02,03,04,05 EH102CO01,02,03,04,05 EH103CO01,02,03,04,05 EH104CO01,02,03,04,05 EH105CO01,02,03,04,05 EH106CO01,02,03,04,05</p>
PSOUGBA03	<p>EE101CO01,02,03,05,07,09,10 EE102CO02,03,04,05,06 EE103CO02,03,04,05,06,07 EE104CO02,03,04,05,06,07 EE105CO01,02,03,04,05,06,07,08,09,10 EE106CO01,02,03,04,05,06,07,08,09</p> <p>EPC102CO03, EPC102CO06, EPC103CO05, EPC103CO06, EPC104CO06, EPC105CO05, EPC106CO05</p>

PSOUGBA04	TBAPS 01 CO 01,02,03,04,05 TBAPS 02 CO 01,02,03,04,05 TBAPS03 CO 01,02,03,04,05,06,07,08 TBAPS04 CO 01,02,03,04,05,06,07,08 TBAPS06 CO 01,02,03,04,05,06,07,08,09
PSOUGBA05	TBAPHC03 CO01,02,03,04,05,06
PSOUGBA06	PHC101CO01,02,03,04,05,06,07 PHC102CO01,02,03,04,05,06 PHC103CO01,02,03,04,05,06 PHC104CO01,02,03,04,05 PHC105CO01,02,03,04,05 PHC106CO01,02,03,04,05
PSOUGBA07	PEDC101CO01, 03,04,06,07. PEDC102CO01, 03,04,06,07,08,09 PEDC103CO01, 03,04,05,06 PEDC104CO01,03,04,05,06 PEDC105CO03,05,06,07 PEDC106CO01,03,04
PSOUGBA08	TBASO01 CO 01, CO 02, CO 03, CO 04, CO 05 TBASO02 CO 01, CO 02, CO 03, CO 04, CO 05, CO 06 TBASO04 CO 01, CO 02, CO 03, CO 04

Programme
MA POLITICAL SCIENCE

Program Outcome

PSO code	PSO
POPGMA01	Understand various political thinkers of west
POPGMA02	Understand the various international theories, issues and problems
PO PGMA03	Analyze and criticize the Indian political system
POPGMA04	Describe the various principles of Public Administration
PO PGMA05	Understand the various political sociological concepts
POPGMA06	Understand the various political theories and concepts related to political system
POPGMA07	Compare the constitutional system of USA ,UK and France
POPGMA08	Elaborate the politics in Punjab
POPGMA09	Explain the concept of Public Policy
POPGMA10	Describe various International Economic issues and economic organizations
POPGMA11	Identify the problems in implementation of Human Rights
POPGMA12	Describe the role of international organization.
POPGMA13	Describe the concept of International law.
POPGMA14	Understand the problems of South Asia

Course Outcome

Paper I: Western Political Thought-I

CO code	CO
TPGI PICO1	Understand the theory of Justice ,Communism, Education and theory of Philosopher King by Plato& Views of Aristotle on State, Revolution, Slavery and citizenship
TPGI PICO2	Understand Machiavelli:Separation of Ethics from Politics, Statecraft and Hobbes views on human nature and State of Nature
TPGI PICO3	Discuss Locke theory state of nature, Natural Rights possessive individualism and Social Contract theory
TPGI PICO4	Understand Rousseau: human nature and state of nature and social contract theory of General Will

Paper II: International Politics

TPGI PICO1	Explaining scope and subject matter of International Relations as an autonomous academic discipline.
TPGI PICO2	Discuss various theories to International Politics
TPGI PICO3	Explain various methods of power management.
TPGI PICO4	Describe the impact of nuclear weapon on International politics.
TPGI PICO5	Discuss the post -soviet era and concept of Uni polarity.

Paper III: Indian Political System

TPGI PICO1	Outlining the basic values and philosophy of Indian Constitution as expressed in the Preamble.
TPGI PICO2	Studying Fundamental rights, duties and Directive Principles of State Policy
TPGI PICO3	Assessing Judicial Activism in India with particular reference to Supreme Court.
TPGI PICO4	Evaluating the structures of government at the National level.
TPGI PICO5	Evaluating the structures of government at the State level.
TPGI PICO6	Examining Indian federalism through Centre-state relations

Paper IV: Principles of Public Administration

TPGI PICO1	Knowledge about Significance of Public Administration and Ecology of Public Administration, New Public Administration
TPGI PICO2	Understand the theory of Scientific Management (Taylor), Bureaucratic Theory of Organization (Weber), Human, Relations (Elton Mayo). Herbert Simon's Decision-Making Approach
TPGI PICO3	Knowledge about Principles of hierarchy, Unity of Command, Span of Control, Delegation and recruitment
TPGI PICO4	Concept of Budget and Performance Budgeting and functions of Lok Pal and LokAyukta

Paper V: Political Sociology

TPGIPVCO1	Examining the meaning, nature and scope of Political Sociology
TPGIPVCO2	Comparative study of Political Science, Sociology and Political Sociology
TPGIPVCO3	Examining social stratification through the index of class, caste and elite.
TPGIPVCO4	Establishing State –society interrelationship.
TPGIPVCO5	Discussing the approaches to the study of Political Culture. Evaluating the different agents of Political Socialization and their interrelationships.
TPGIPVCO6	Evaluating the concept of Political Development and Social Change- Role of Tradition and Modernity.
TPGIPVCO7	Studying the concepts of Power, Authority and Legitimacy in the context of society

Paper VI: Western Political Thought-II

TPGIPVICO1	examine Bentham theory of utilitarianism
TPGIPVICO2	understand John Stuart Mill theory of On Liberty and working system of representative government
TPGIPVICO3	understand Hegel theory of Dialectical and historical materialism
TPGIPVICO4	Knowledge of Marx Dialectical and Historical Materialism, Class Struggle and theory of surplus value

Paper VII: Modern Political Analysis

TPGIPVIICO1	Analyze what is Modern political analysis
TPGIPVIICO2	Analyze the Political Development and Modernization
TPGIPVIICO3	Discuss the behaviouralism and post behaviouralism
TPGIPVIICO3	Explain Dialectical Materialism and Historical Materialism with special reference to relationship between base and superstructure.
TPGIPVIICO4	Assess empirical Modern Political Theory: System's Analysis, Structural Functionalism

Paper VIII: Comparative Political Systems: UK, USA, and France

TPGIPVIIIICO1	Discuss the theory and apply the methodology of comparative analysis within the discipline of political science.
TPGIPVIIIICO2	Analyze the constitutional framework and Government structure in UK,USA and France
TPGIPVIIIICO3	Write an analysis of the emerging trends in politics of UK,USA and France.

Paper IX: Issues and Trends in Indian Politics

TPGIPIXCO1	Explain the crisis of legitimacy .
TPGIPIXCO2	Study the process of interaction between society and politics in contemporary India- Caste, tribe and religion.
TPGIPIXCO3	Explain in detail coalition Politics in India.
TPGIPIXCO4	Analyze Socio-economic system conditioning Indian Democracy

Paper X: Public Policy

TPGIPXCOI	understand the policy analysis and policy making in India different method and techniques to policy analysis
TPGIPXCO2	Explain the of Models of Lindbloom, Herbert Simon and Dror
TPGIPXCO3	understand the role of political parties, pressure groups, mass media and social movements in policy making.
TPGIPXCO4	understand the role of executive, legislature, judiciary in successful implementation of the policy

Paper XI: Politics of International Economic Relations

TPGIPXICO1	understand the role of economic factors in foreign policy making.
TPGIPXICO2	Discuss the working of IMF and World Bank .
TPGIPXICO3	Analyze the role of MNCs and WTO in economic development.
TPGIPXICO4	Analyze the concept of Globalization, Politics of global warming and Politics of Oil and Gas

Paper XII: Foreign Policy of India

TPGIPXIICO1	understand determinants-internal, historical physical setting, economic and ideological and basic principles of Indian foreign policy
TPGIPXIICO2	Understand India and its neighbouring countries Sri Lanka, Bangladesh, Nepal, Pakistan etc.
TPGIPXIICO3	Understand the majors power: US, China
TPGIPXIICO4	Describe India's Approach towards the restructuring of the UN
TPGIPXIICO5	understand India's Nuclear Policy
TPGIPXIICO6	Analyze role of India in BRICS

Paper XIII: International Law

TPGIPXIIICO1	Identifies international law, public law & private international law
TPGIPXIIICO2	Discuss the international law related to State succession and state responsibility.
TPGIPXIIICO3	Describe the international law related to state jurisdiction.
TPGIPXIIICO4	Analyze the law of treaties in international relations.
TPGIPXIIICO5	Understanding International law relating to war and peace.

Paper XIV: International Organization

TPGIPXIVCO1	Understand the core literature on international organizations
TPGIPXIVCO2	Describe the aims and principles of United Nations
TPGIPXIVCO3	Discuss the need of revision in UN charter.
TPGIPXIVCO4	Analyze the working of major organs and agencies of UN.

Paper XV: Human Rights

TPGIPXVCO1	Discuss the meaning ,nature and theories of Human Rights
TPGIPXVCO2	Analyze Different conventions and declaration regarding various rights under UN.
TPGIPXVCO3	Understand the theory and practices about Fundamental rights & Human rights in Indian Political system.

Semester-IV

Paper XVI: Recent Political Theory

TPGIPXVICO1	Understanding Gramsci and Max Webber view point of state, civil society and hegemony
TPGIPXVICO2	Analyze the theories of state and its legitimation
TPGIPXVICO3	Explain the different theories of democracy
TPGIPXVICO4	Discuss the theory of positivism, neo-positivism, communitarianism post-modernism, libertarianism& Feminism

Paper XVII: Indian Political Thought

TPGIPXVIIICO1	Understand the ideas and views of Ancient Indian thinkers.
TPGIPXVIIICO2	Analyze the relevance of the ideas of Guru Nanak and Guru Gobind Singh.
TPGIPXVIIICO3	Discuss the contribution of Mahatma Gandhi and B. R. Ambedkar to Indian Polity.
TPGIPXVIIICO4	Discuss the ideological contribution of M.N. Roy and Jawaharlal Nehru .

Paper-XVIII Government and Politics in Punjab

TPGIPXVIIICO1	Analyze various movements in Punjab like the Singh Sabha Arya Samaj, , Ghadhar Movement and Praja- Mandal Movement.
TPGIPXVIIICO2	Discuss the contribution of Akali Morcha in Re-organization of Punjab.
TPGIPXVIIICO3	Examine the suggestions of Sarkaria Commission in center- state relations
	Discuss the causes and consequences of Militancy in Punjab.
TPGIPXVIIICO4	Impact of Green Revolution in Punjab socio politics system
TPGIPXVIIICO5	Understand the dynamics of party system in Punjab: Akali Dal, Congress-I, BJP and its emerging trends in Punjab Politics

Paper XIX: Research Methods in Social Science

TPGIPXIXCO1	Understand the role of scientific methods in research in social sciences
TPGIPXIXCO2	understand the concepts of hypothesis
TPGIPXIXCO3	understand selection and formulation of the research problem, research design and sampling and sampling techniques, survey, questionnaire, interview etc.
TPGIPXIXCO4	understand the various dimensions of research: data analysis, data interpretation and report writing

Paper XX: Politics in South Asia

TPGIPXXCO1	Analyze the nature of Post -colonial states in South Asia
TPGIPXXCO2	Discuss the various issues like Nation building, Ethnicity and role of political Elite in South Asia.
TPGIPXXCO3	Critically discuss the impact of Globalisation.
TPGIPXXCO4	Identify the problems in Governance in South Asia.
TPGIPXXCO5	Discuss the various problems in South Asia like Terrorism, Human rights violation etc.

Mapping of PSO

PSOPG10 1	TPGIP(I) co 1,2,3,4 TPGIP6(XI) CO 1,2,3,4
PSOPG102	TPGIP(II)CO1,2,3,4,5
PSO PG103	TPGIP(III) CO1,2,3,4,5,6,
PSOPG104	TPGIP(IV)CO1,2,3,4
PSO PG105	TPGIP(V)CO1,2,3,4,5,6,7
PSOPG1 06	TPGIP(IX)CO1,2,3,4
PSOPG1 07	TPGIP(VIII)CO1,2,3,
PSOPG108	TPGIP(XVIII) CO1,2,3,4,5
PSOPG109	TPGIP(X)CO 1,2,3,4
PSOPG110	TPGIP(XI) CO 1,2,3,4
PSOPG111	TPGIP(XV)CO1,2,3
PSOPG112	TPGIP(XV)CO 1,2,3,
PSOPG113	TPGIP(XIII)CO1,2,3,4,5
PSOPG114	TPGIP(XX)CO1,2,3,4,5

Programme and Course Outcomes
Department of Cosmetology

Programme Offered

ONE YEAR DIPLOMA IN COSMETOLOGY

Programme Specific Outcomes(PSOs)

PSO CODE NO.	Program Specific Outcomes
PSOUGDPC01	Expertise in makeup, skin care and beauty products. Provide beauty services that include cosmetic care for hair skin and body.
PSOUGDPC02	Develop interest to become a licensed cosmetologist.
PSOUGDPC03	Calculate the range from the regular hair- cut, hair wash, perming, styling, colouring and hair extensions to make manicure, pedicure and facial.
PSOUGDPC04	Enhance the knowledge to become a Beauty Therapist give treatment for the face, hair, skin and body.
PSOUGDPC05	Apply concepts and knowledge of the general terminology, self- structure and function histology, gross anatomy related to the integumentary skeleton and nerve system.
PSOUGDPC06	Specialize in doing make-up for marriages, T.V, film Performances and special occasion.
PSOUGDPC07	Develop market advisors, cosmetics, help customers to identify the skin / hair type and give advice on general health/ fitness and how to treat minor ailments.

Course Outcomes

FUNDAMENTAL KNOWLEDGE OF SKIN

Code & No	Course Learning Outcomes
DPCFKC101CO01	Explore history of cosmetology and career opportunity.
DPCFKC101CCO02	Understand the aims and objectives of cosmetology
DPCFKC101CO03	Describe self care, personality development and manners and develop a professional image.
DPCFKC101CO04	Specialize in Anatomy and explain details of skin
DPCFKC101CO05	Demonstrate proper application of micro and laser treatment.
DPCFKC101CO06	Describe make-up in all its details.
DPCFKC101CO07	Develop knowledge about hair removing method

SKIN CARE AND TREATMENT

Code & No	Course Learning Outcomes
DPCSCT102CO01	Elaborate the anatomy of nails
DPCSCT102CCO02	Know personal grooming with special treatment of eyes and eyebrows
DPCSCT102CO03	Define and perform the care of feet and hand- pedicure and manicure
DPCSCT102CO04	Knowledge of maquillage and application of the same

YOGA AND HAIR

Code & No	Course Learning Outcomes
DPCYH101CO01	Explore the knowledge of yoga and aerobic
DPCYH101CCO02	Understand various yoga asanas deeply and learn to practice them
DPCYH101CO03	Describe the anatomy and disorder of hair and give treatment accordingly
DPCYH101CO04	Know and specialize in various hair cuts

HAIR HEALTH AND CARE

Code & No	Course Learning Outcomes
DPCHHC102CO01	Describe role of nutrition and basic five food groups
DPCHHC102CO02	Understand various hair tinting and application techniques
DPCHHC102CO03	Describe techniques scalp manipulation with natural treatments
DPCHHC102CO04	Know and specialize in hair repair treatments
DPCHHC102CO05	Explore chemical treatment of hair
DPCHHC102CO06	Know deeply about salon management

HAIR BEAUTY TREATMENT

Code & No	Course Learning Outcomes
DPCHBT101CO01	Explore knowledge of scalp manipulation
DPCHBT101CO02	Know how to apply specialized Facial treatment
DPCHBT101CO03	Practice Hair Removing methods
DPCHBT101CO04	Explore advanced techniques of Maquillage
DPCHBT101CO05	Perform Advanced mehendi designs

MAKE-UP

Code & No	Course Learning Outcomes
DPCMU102CO01	Describe about structure, disorder and types of Nail
DPCMU102CO02	Elaborate on Eye make-up, eyebrow shaping and make-up
DPCMU102CO03	Know and practice High Frequency treatment
DPCMU102CO04	Explore Professional Make-up
DPCMU102CO05	Describe Correct Make-up

HAIR STYLING AND SHAPING

Code & No	Course Learning Outcomes
DPCSTS101CO01	Describe and perform various Yoga Asanas
DPCSTS101CO02	Know about Hair Care
DPCSTS101CO03	Explore Scientific Scalp treatments
DPCSTS101CO04	Describe and show Hair Shaping and styles
DPCSTS101CO05	Explain use of spray, gel and mousse
DPCSTS101CO06	Develop the ability to know about advance hair cuts

CHEMICAL AND PHYSICAL HAIR WORK

Code & No	Course Learning Outcomes
DPCCPH102CO01	Describe hair coloring
DPCCPH102CO02	Explore hair Designing
DPCCPH102CO03	Know about scalp manipulation
DPCCPH102CO04	Explain Hair polishing
DPCCPH102CO05	Know about Rebonding
DPCCPH102CO06	Understand advance techniques of Perming
DPCCPH102CO07	Describe latest techniques of hair cuts

PO/CO Mapping

Sr. No.	PSO No.	Content	CO No
1.	PSOUGDPC01	Expertise in makeup skin care and beauty products. Provide beauty services that include cosmetic care for hair skin and body.	DPCFKC101CO04, DPCFKC101CO05, DPCGKC101CO06, DPCFKC101CO07, DPCSCT102CO03, DPCSCT102CO04, DPCMU102CO02, DPCMU102CO03, DPCMU103CO04, DPCMU102CO05, DPCHBT101CO02, DPCHBT101CO05.
2.	PSOUGDPC02	Develop interest to become a licenced cosmetologist.	DPCFKC101CO01, DPCFKC101CO02, DPCFKC101CO03, DPCHHC102CO06
3.	PSOUGDPC03	Calculate the range from the regular hair cut, hair wash, perming, styling, curling and hair extension to make manicure pedicure and facial.	DPCCH102CO01, DPCCH102CO02, DPCCH102CO03, DPCCH102CO04, DPCCH102CO05, DPCCH102CO06, DPCCH102CO07, DPCSTS 101CO01, DPCSTS 101CO02, DPCSTS 101CO03, DPCSTS 101CO04, DPCSTS 101CO05, DPCSTS

			101CO06,DPCHBT101CO01,DPCHBT101CO03, DPCYH101CO04,DPCHHC102CO03, DPCHHC102CO04,DPCHHC102CO05, DPCFK101CO05,DPCFK101CO07.
4.	PSOUGDPC04	Inhence the knowledge to became a beauty therapist give treatment for the face , skin , hair and body .	DPCYH 101CO01,DPCYH101CO02, DPCHHC102CO01,DPCHHC102CO06,DPCFK101CO02,DPCFK101CO05, DPCSCT102CO01, DPCSCT102CO02, DPCSCT102CO04,DPCSTS101CO01, DPCSTS101CO02, DPCSTS101CO03 DPCSTS101CO04, DPCSTS101CO05 DPCSTS101CO06
5.	PSUGDPC05	Apply concept of general terminology self structure and function histology gross Anatomy related to the integumentary Skeleton and nerve system .	DPCSTS101CO01, DPCSTS101CO03, DPCHBT101CO02,DPCMU102CO01 DPCFKC101CO04,DPCST102CO04,
6.	PSOUGDPC06	Specialize in doing makeup for marriages , T V, Film performance and special occasions.	DPCMU102CO02,DPCMU102CO03, DPCMU102CO04,DPCMU102CO05, DPCHBT101CO05,DPCFKC101CO06,DPCSC T102CO02,
7.	PSOUGDPC07	Develop market advisor, Cosmetics ,help customers to identify the skin , hair type and give advice on general health/ fitness and how to treat minor ailments.	DPC4H101CO03,DPCHHC102CO03, DPCHHC102CO04,DPCHHC102CO05, DPCHHC102CO06,DPCFKC101CO01, ,DPCFKC101CO02,DPCFKC101CO03 ,DPCFKC101CO05,DPCST102CO01 ,DPCST102CO02 ,DPCST102CO03 ,DPCST102CO04,

Programme and Course Outcomes
Department of Library Sciences

Bachelor of Library & Information Science

Programme Outcomes (POs)

PSO No.	Programme Outcomes
PO UG TBLIB 1	Demonstrate a Comprehensive Understanding and Application of Library Principles
PO UG TBLIB 2	Analyze and Articulate the Transformative Role of Libraries
PO UG TBLIB 3	Evaluate and Differentiate Various Types of Libraries
PO UG TBLIB 4	Describe the role of various Library Associations.
PO UG TBLIB 5	Assess and Uphold the professional ethics of librarianship.
PO UG TBLIB 6	Describe the importance of various classification schemes.
PO UG TBLIB 7	Analyze and Compare Models of Library Classification
PO UG TBLIB 8	Explore Trends in Classification
PO UG TBLIB 9	Classify Library Resources using Dewey Decimal Classification (DDC) & Colon Classification (CC).
PO UG TBLIB 10	Acquire Basic Knowledge of Information Communication Technology
PO UG TBLIB 11	Formulate search queries using advanced search strategies.
PO UG TBLIB 12	Explore Internet Basics and Library Automation.
PO UG TBLIB 13	Retrieve bibliographic information from Web OPAC.
PO UG TBLIB 14	Utilize electronic databases.
PO UG TBLIB 15	Effectively Communicate and Demonstrate In-Depth Knowledge of Latest Trends in LIS
PO UG TBLIB 16	Apply Management Principles to Libraries and Information Centres
PO UG TBLIB 17	Organize the resources of the library.
PO UG TBLIB 18	Apply Library Cataloguing Principles and Theories
PO UG TBLIB 19	Employ metadata and indexing principles for efficient organization.
PO UG TBLIB 20	Apply Cataloguing Practices According to AACR-II and CCC
PO UG TBLIB 21	Analyze and Evaluate Information Sources
PO UG TBLIB 22	Understand User Information Needs
PO UG TBLIB 23	Evaluate and select appropriate information sources.
PO UG TBLIB 24	Compile bibliographies, current awareness lists, and newspaper clippings files.

Course Outcomes (COs)

TBLIB 101: Foundations of Library & Information Science

CODE & No.	Course Outcomes
TBLIB 101 CO 1	Define and apply the fundamental principles of library science in various library settings.
TBLIB 101 CO 2	Evaluate the relevance of the Five Laws of Library Science in contemporary library practices.
TBLIB 101 CO 3	Explore the Role of the Library in the Dissemination of Information.
TBLIB 101 CO 4	Evaluate the Role of Libraries in Social Development
TBLIB 101 CO 5	Analyze the changing dimensions in the electronic era
TBLIB 101 CO 6	Evaluate the purpose and functions of different types of libraries
TBLIB 101 CO 7	Evaluate the Evolution of Public Libraries in India
TBLIB 101 CO 8	Evaluate the present position of library legislation in India and its impact on maintaining professional standards.
TBLIB 101 CO 9	Assess the Impact of Library Associations
TBLIB 101 CO 10	Explore the influence of Library Associations on professional development and collaboration within the library community.
TBLIB 101 CO 11	Understand the professional ethics of librarianship.
TBLIB 101 CO 12	Formulate Public Relations Strategies in the Library
TBLIB 101 CO 13	Design Extension Services and Publicity Initiatives

TBLIB 102: KNOWLEDGE ORGANISATION: CLASSIFICATION (THEORY)

CODE & No.	Course Outcomes
TBLIB 102 CO 1	Define the importance of classification schemes in organizing knowledge and information.
TBLIB 102 CO 2	Identify and categorize the strengths and weaknesses of different classification schemes.
TBLIB 102 CO 3	Describe the significance of classification in facilitating efficient access to information resources.
TBLIB 102 CO 4	Analyze enumerative and faceted models of library classification schemes.
TBLIB 102 CO 5	Compare major classification schemes (UDC, DDC, CC)
TBLIB 102 CO 6	Explore current trends in classification, including Folksonomy, Tagging, and Social Bookmarking.
TBLIB 102 CO 7	Examine the concept and advantages of the Semantic Web in the context of classification.
TBLIB 102 CO 8	Evaluate the activities of DRTC and ISKO in shaping and advancing the field of classification.
TBLIB 102 CO 9	Apply notation systems to organize and represent subjects.
TBLIB 102 CO 10	Apply classification theory principles

TBLIB 103: KNOWLEDGE ORGANISATION: CLASSIFICATION (PRACTICE)

CODE & No.	Course Outcomes
TBLIB 103 CO 1	Apply Dewey Decimal Classification (DDC) to systematically classify diverse library resources based on their subjects.
TBLIB 103 CO 2	Implement Colon Classification (CC) techniques to organize and categorize titles of documents in a library setting.
TBLIB 103 CO 3	Apply Creative Problem-Solving to Address Challenges in Document Classification Using DDC and Colon Classification.

TBLIB 104: INFORMATION COMMUNICATION TECHNOLOGY: BASICS (THEORY)

CODE & No.	Course Outcomes
TBLIB 104 CO 1	Define the generations of computers and analyze the architecture.
TBLIB 104 CO 2	Categorize types of computers
TBLIB 104 CO 3	Identify and evaluate computer hardware components
TBLIB 104 CO 4	Utilize word processing software and spreadsheet.
TBLIB 104 CO 5	Assess Fundamentals of Telecommunication Technology: Transmission Channels, Media, and Wireless Communication.
TBLIB 104 CO 6	Differentiate Computer Network Types and Analyze Network Topologies
TBLIB 104 CO 7	Formulate advanced search queries using Boolean operators and other search strategies
TBLIB 104 CO 8	Analyze and implement advanced search techniques in electronic databases
TBLIB 104 CO 9	Utilize electronic databases for information retrieval
TBLIB 104 CO 10	Explore Basics of Internet: Examine History, Tools, and Functions, Applying Fundamental Understanding
TBLIB 104 CO 11	Assess the need for automation in libraries.

TBLIB 105: INFORMATION COMMUNICATION TECHNOLOGY: BASICS (PRACTICE)

CODE & No.	Course Outcomes
TBLIB 105 CO 1	Navigate and Operate the Latest Version of Window
TBLIB 105 CO 2	Develop Presentations Using MS Power Point
TBLIB 105 CO 3	Utilize MS-Excel for Data Entry and Basic Spreadsheet Functions.
TBLIB 105 CO 4	Employ Search Engines to Retrieve Information
TBLIB 105 CO 5	Utilize Web OPAC, IndCat, and WorldCat for Information Searching.
TBLIB 105 CO 6	Apply Information Communication Technology Basics in Real-world Scenarios.

TBLIB 201: MANAGEMENT OF LIBRARIES AND INFORMATION CENTRES

CODE & No.	Course Outcomes
TBLIB 201 CO 1	Apply Principles of Scientific Management to Libraries and Information Centres.
TBLIB 201 CO 2	Formulate Human Resource Management Policies, Including Recruitment, Job Description, and Job Training.
TBLIB 201 CO 3	Execute Technical Processing of Documents
TBLIB 201 CO 4	Operate Sections of the library

TBLIB 202: LIBRARY CATALOGUING (THEORY)

CODE & No.	Course Outcomes
TBLIB 202 CO 1	Define and apply the principles of library cataloguing.
TBLIB 202 CO 2	Evaluate the need and purpose of library cataloguing.
TBLIB 202 CO 3	Analyze and compare physical forms of catalogues.
TBLIB 202 CO 4	Implement cataloguing entries, including main entry and added entries, according to AACR-II and CCC.
TBLIB 202 CO 5	Assess the development of AACR and CCC.

TBLIB 203: LIBRARY CATALOGUING (PRACTICE)

CODE & No.	Course Outcomes
TBLIB 203 CO 1	Implement AACR-II guidelines for cataloging documents
TBLIB 203 CO 2	Implement CCC principles for cataloging documents
TBLIB 203 CO 3	Assess and differentiate cataloging practices for various document types based on AACR-II and CCC guidelines.
TBLIB 203 CO 4	Apply metadata principles to ensure efficient organization of library materials
TBLIB 203 CO 5	Utilize indexing principles to enhance discoverability
TBLIB 203 CO 6	Evaluate the efficiency of different indexing methods

TBLIB 204: INFORMATION SOURCES AND SERVICES (THEORY)

CODE & No.	Course Outcomes
TBLIB 204 CO 1	Analyze documentary and non-documentary sources of information
TBLIB 204 CO 2	Evaluate categories of information sources
TBLIB 204 CO 3	Assess the value and utility of different reference and information sources
TBLIB 204 CO 4	Analyze and categorize information users
TBLIB 204 CO 5	Apply user education concepts, goals, and methods to enhance information literacy

TBLIB 205: INFORMATION SOURCES AND SERVICES (PRACTICE)

CODE & No.	Course Outcomes
TBLIB 205 CO 1	Evaluate and critically analyze various information sources
TBLIB 205 CO 2	Select and justify the use of bibliographical sources, union catalogues, and indexing and abstracting services
TBLIB 205 CO 3	Demonstrate the ability to differentiate between various types of information sources
TBLIB 205 CO 4	Identify and utilize appropriate reference sources to compile a reference list
TBLIB 205 CO 5	Develop current awareness lists and create newspaper clipping files

PO/ CO MAPPING

PO No.	CO Code
PO UG TBLIB 1	TBLIB 101 CO 1, TBLIB 101 CO 2
PO UG TBLIB 2	TBLIB 101 CO 3, TBLIB 101 CO 4, TBLIB 101 CO 5
PO UG TBLIB 3	TBLIB 101 CO 6, TBLIB 101 CO 7, TBLIB 101 CO 8
PO UG TBLIB 4	TBLIB 101 CO 9, TBLIB 101 CO 10
PO UG TBLIB 5	TBLIB 101 CO 11, TBLIB 101 CO 12, TBLIB 101 CO 13
PO UG TBLIB 6	TBLIB 102 CO 1, TBLIB 102 CO 2, TBLIB 102 CO 3
PO UG TBLIB 7	TBLIB 102 CO 4, TBLIB 102 CO 5, TBLIB 102 CO 6
PO UG TBLIB 8	TBLIB 102 CO 7, TBLIB 102 CO 8, TBLIB 102 CO 9, TBLIB 102 CO 10
PO UG TBLIB 9	TBLIB 103 CO 1, TBLIB 103 CO 2, TBLIB 103 CO 3
PO UG TBLIB 10	TBLIB 104 CO 1, TBLIB 104 CO 2, TBLIB 104 CO 3, TBLIB 104 CO 4, TBLIB 104 CO 5, TBLIB 104 CO 6
PO UG TBLIB 11	TBLIB 104 CO 7, TBLIB 104 CO 8, TBLIB 104 CO 9
PO UG TBLIB 12	TBLIB 104 CO 10, TBLIB 104 CO 11
PO UG TBLIB 13	TBLIB 105 CO 1, TBLIB 105 CO 2, TBLIB 105 CO 3, TBLIB 105 CO 4
PO UG TBLIB 14	TBLIB 105 CO 5, TBLIB 105 CO 6
PO UG TBLIB 16	TBLIB 201 CO 1, TBLIB 201 CO 2
PO UG TBLIB 17	TBLIB 201 CO 3, TBLIB 201 CO 4
PO UG TBLIB 18	TBLIB 202 CO 1, TBLIB 202 CO 2, TBLIB 202 CO 3, TBLIB 202 CO 4, TBLIB 202 CO 5
PO UG TBLIB 19	TBLIB 203 CO 1, TBLIB 203 CO 2, TBLIB 203 CO 3
PO UG TBLIB 20	TBLIB 203 CO 4, TBLIB 203 CO 5, TBLIB 203 CO 6
PO UG TBLIB 21	TBLIB 204 CO 1, TBLIB 204 CO 2, TBLIB 204 CO 3
PO UG TBLIB 22	TBLIB 204 CO 4, TBLIB 204 CO 5
PO UG TBLIB 23	TBLIB 205 CO 1, TBLIB 205 CO 2, TBLIB 205 CO 3
PO UG TBLIB 24	TBLIB 205 CO 4, TBLIB 205 CO 5

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