



**SANATAN DHARMA**  
**COLLEGE HOSHIARPUR**  
**DEPARTMENT OF COMPUTER APPLICATION**

Contact: 01882-249968  
Website:  
[www.sdcollegehsp.net](http://www.sdcollegehsp.net)  
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**Program Outcomes**  
**&**  
**Subject Outcomes**



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## **Name of Programme: B.Com.**

### **Programme Outcomes**

The students will be able to

PO 1: 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.

PO 2: develop and strengthen theoretical and applied aspects of commerce for preparing the students for higher education and research.

PO 3: equip with professional, inter personal, presentation and entrepreneurial skills to meet the requirements of business sector.

PO 4: enhance the analytical and decision making skills of the students which can help them in solving business problems in a dynamic environment.

PO 5: exercise professional skills, values, team spirit, and leadership to meet the challenges of life and business.

### **Programme Specific Outcomes**

PSO 1: 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

PSO 2: Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

PSO 3: Learners will gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing. PSO 4: Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.



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Class	Subject Code	Subject Name	Objectives
B.Com Sem 1	BCM-101A	Punjabi	
	BCM-101 B	History & Culture of Punjab	To introduce the students to the history of the Punjab region.
	BCM-102 A	English And Business Communication	It shall focus on different aspects of communication in general and business communication in particular, communication within organizations, types of communication, and significance of positive attitude in improving communication.
	BCM-103	Interdisciplinary Psychology for managers	The objective of the paper is to provide broad understanding about basic concepts and techniques of human behaviour to the students
	BCM-104	Business Economics-I	To study the basic concepts of microeconomics relevant for Business decision making and helping the students to understand the application of economic principles in business management
	BCM-105	Principles of Financial Accounting	The objective of this paper is to help students to acquire conceptual knowledge of financial accounting and to impart skills for recording various kinds of business transactions.
	BCM-106	Commercial Law	The main objective of the paper is to acquaint the students with general Commercial Laws.
	BCM-107	Principles and Practices of Management	The objective of the paper is to help the students in understanding the process of business management and its functions.
	BCM-201 A	Punjabi	
	BCM-201 B	History and Culture of Punjab	To introduce the students to the history of Punjab region in modern times.



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B.Com Sem 2	BCM-202	English And Business Communication	Here special emphasis shall be given to teaching the format of e-mails, Fax Messages, Teleconferencing, Audio-Visual Aids and Power-Point Presentations. Apart from this, the students shall also be given basic lessons in Effective Listening, Non-Verbal Communication, How to Prepare for Group Discussion etc.
	BCM-203	Interdisciplinary E-Commerce	The objective of this paper is to provide fundamental knowledge to the students about E-Commerce so that they can better perform in any area of operation and can excel in the field of commerce with IT specialization.
	BCM-204	Business Economics-II	The paper aims at providing the knowledge of basic concepts of the distribution and modern tools of macro-economic analysis.



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	BCM-205	Corporate Accounting	To provide knowledge about basic corporate accounting with the relevant accounting standards.
	BCM-206	Business Law	The main objective of the paper is to acquaint the students about Business Laws.
	BCM-207	Human Resource Management	The objective of the paper is to familiarize the students with the different aspects of managing human resource in the organization.
B.Com Sem 3	BCM-301	Interdisciplinary Issues in Indian Commerce	To enable the students to acquire basic knowledge of different issues faced in progress and prospects of commerce in India
	BCM-302	Cost Accounting	The objective of this paper is to help the students to acquire conceptual knowledge of cost accounting and elements of cost.
	BCM-303	Company Law	The objective of this paper is to help the students understand various provisions of Companies Act 2013.
	BCM-304	Business Mathematics and Statistics	The objective of this paper is to help the students in understanding mathematical and statistical tools in business decisions.
	BCM-305	Banking and Insurance	To acquaint the students with Indian Banking and Insurance industry
	BCM-306	Goods and Services Tax	Understanding of Basics of GST
	B.Com Sem 4	BCM-401	Interdisciplinary Security Analysis and Portfolio Management
BCM-402		Advanced Accounting	To provide knowledge to students about advanced accounting problems with the relevant Indian Accounting Standards
BCM-403		Auditing and Secretarial Practice	The objective of the paper is to help the students in understanding concepts and issues in Auditing and Secretarial Practice.
BCM-404		Cost Management	The objective of the paper is to acquaint the students with the various



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			methods of cost determination and tools and techniques of cost control
	BCM-405	Marketing Management	The paper aims at making students to understand the basic concepts, philosophies, process and techniques of marketing.
	BCM-406	QUANTITATIVE TECHNIQUES AND METHODS**	The objective of the paper is to acquaint the student with the various quantitative techniques and methods used in managerial decisions
B.Com Sem 5	BCM-501	INCOME TAX LAW**	The objective of the course is to impart basic knowledge of the provisions of Income tax laws in India.
	BCM-502	MANAGEMENT ACCOUNTING**	To study the basic concepts of Management Accounting relevant in Business and helping the students to understand the usage of Accounting in Financial Management.
	BCM-503	INDIAN ECONOMY	
	BCM-504	PRODUCTION AND OPERATION MANAGEMENT	The objective of this course is to enable the students to understand the concepts of production and operations management of an industrial undertaking.
	BCM-505	ENTREPRENEURSHIP AND SMALL BUSINESS	The basic objective of this course is to help the learners understand various issues involved in setting up a private enterprise and develop required entrepreneurial skills in economic development. It also aims to motivate students to opt for entrepreneurship and self-employment as alternate career options.
	BCM-506	FINANCIAL MARKETS AND SERVICES	To familiarize the students with the traditional and modern financial and services.
B.Com	BCM-601	DIRECT TAX LAWS*	The objective of the course is to impart basic knowledge of the provisions of Income tax laws in India.
	BCM-602	FINANCIAL MANAGEMENT	The objective of the paper is to familiarize the students with Principles and Practices of Financial Management.



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Sem 6	BCM-603	ISSUES IN FINANCIAL REPORTING	The main objective of this subject is to provide knowledge to the students about developments in financial reporting, and understanding of reporting issues at the national and international level.
	BCM-604	SOCIAL AND BUSINESS ETHICS	The course aims to educate that how the adoption of Business Ethics by organizations not only discourages corporate wrong-doing, but also



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## **Name of Programme :BBA**

### **Programme Outcomes**

Students will be able to

- PO 1 : Gain an understanding of the various management disciplines, including marketing, human resources, production, and finance.
- PO 2: In order to prepare students for research and higher education, develop and strengthen the theoretical and applied parts of management.
- PO 3: equip the students with professional, inter personal, presentation and entrepreneurial skills to administer business successfully.
- PO 4: strengthen students' analytical and decision-making abilities, which will aid them in using management theories and practices to resolve corporate issues in a dynamic setting.
- PO 5: exercise professional skills, values, team spirit, and leadership to meet the challenges of life and business.
- PO 6: To demonstrate knowledge and understanding of the major theories relating to the field of business and developing realistic solutions to business problems by evaluating various policies of the government and laws and legislations relating to same.

### **Programme Specific Outcomes**

- PSO 1: Students are able to illustrate the principles of innovation creation and management, new company development, and organizations with high growth potential.
- PSO 2: Students will get an understanding of the characteristics and functions of businesspeople, managers, and consultants. This understanding will enable students to acquire information and other soft skills and to respond appropriately when faced with important decision-making situations.
- PSO 3: The students will gain knowledge and expertise in the particular areas of international business, banking & insurance, marketing, and industrial relations.
- PSO 4: Learners will gain the abilities necessary for daily business operations, such as decision-making, effective communication, and problem-solving.



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Class	Subject Code	Subject Name	Objectives
BBA sem 1	BBA 101A/ BBA 101B	PUNJABI / HISTORY AND CULTURE OF PUNJAB	To introduce the students to the history of Punjab region.
	BBA 102	ORGANISATION BEHAVIOUR	The objective of the paper is to provide broad understanding of basic concepts and techniques related to the study of human behavior in work-environment and to manage behavioral aspects of organization.
	BBA 103	FUNDAMENTALS OF INFORMATION TECHNOLOGY	One can't imagine any economy without support of IT. There is now hardly any activity which is done without support of IT. The basic objective of this paper is to provide fundamental knowledge about IT so that student can better perform in any area of operation and can even do excel in the field of commerce with IT specialization.
	BBA 104	MANAGEMENT CONCEPTS AND PRACTICES	The objective of the paper is to help the students understand the process of business management.
	BBA 105	FINANCIAL ACCOUNTING	The primary objective of the paper is to familiarize the students with the basic accounting principles and techniques of preparing and presenting the accounts for user of accounting information.
	BBA 106	ESSENTIALS OF BUSINESS ECONOMICS – I	To study the basic concepts of micro and macroeconomics relevant for Business decision making and helping them to understand the application of economic principles in business management.
	BBA 121A/ BBA 121B	PUNJABI / HISTORY AND CULTURE OF PUNJAB	To introduce the students to the history of Punjab region in modern times



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BBA Sem 2	BBA 122	BUSINESS STATISTICS	To impart the students about the basic knowledge of statistics.
	BBA 123	ESSENTIALS OF BUSINESS ECONOMICS – II	The course aims at providing the knowledge of basic concepts of the Macro Economics. Modern tools of Macro Economic analysis are discussed at length.
	BBA 124	LEGAL ASPECTS OF BUSINESS	The objective of the paper is to impart basic knowledge of the important business laws.
	BBA 125	PERSONALITY DEVELOPMENT & PROFESSIONAL SKILLS	Today's business context requires adaptation to change through acquisition of new skills and abilities to seize opportunities and improve productivity. This course deals with personality development, creativity skills, ethics in business and help students to acquire a range of useful strategies and other skills for enhancing their professional effectiveness.
	BBA 126	MANAGERIAL ACCOUNTING	To acquaint students with concepts of cost and management accounting and their application in managerial decision making.
BBA SEM 3	BBA 201	ENGLISH & BUSINESS COMMUNICATION SKILLS	It shall focus on different aspects of communication in general and business communication in particular, communication within organizations, types of communication, obstacles in communication.
	BBA 202	OPERATION RESEARCH	To make the students to understand the concept of operations Research and its applications in managerial decisions.
	BBA 203	MARKETING MANAGEMENT	The paper aims at making students to understand basic concepts, philosophies, process and techniques of marketing.
	BBA 204	ECONOMICS OF MONEY AND BANKING	The paper aims at making students to understand basic concepts of economics of money and banking.
	BBA 205	REGULATORY FRAMEWORK FOR COMPANIES	The objective of the paper is to impart basic knowledge of the provisions of the Companies Act 2013 with relevant case laws.
	BBA 206	DIRECT TAX LAWS*	The objective of the paper is to impart basic knowledge of the provisions of direct tax laws in India.



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	BBA 221	ENGLISH & BUSINESS COMMUNICATION SKILLS	Special emphasis shall be given to teaching the format of e-mails, Fax Messages, Audio-Visual Aids, Power-Point Presentations and Non-Verbal Communication.
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BBA SEM 4 <sup>th</sup>	BBA 222	PROJECT MANAGEMENT	To enable the students to acquire basic knowledge of different facets of Project Management.
	BBA 223	RESEARCH METHODOLOGY	To provide knowledge to the students about fundamentals of business research
	BBA 224	HUMAN RESOURCE MANAGEMENT	The objective of the paper is to familiarize the students with the different aspects of managing human resource in the organization.
	BBA 225	GOODS AND SERVICES TAX (GST)	Understanding of basics of GST
	BBA 226	DATABASE MANAGEMENT SYSTEM	The objective of the paper is to impart basic knowledge of data base management systems.
BBA SEM	BBA 301	INSURANCE AND RISK MANAGEMENT	The objective of this course is to familiarize students with the principles and practices being followed in the insurance sector. The students will also learn risk management process and applications.
	BBA 302	INTERNATIONAL BUSINESS	The objective of this course is to familiarize students with the concepts, importance and dynamics of international business. The course also discusses theoretical foundations of international business to the extent these are relevant to understand the mechanics of global business operations and development.
	BBA 303	BUSINESS ENVIRONMENT	The main objective of the course is to acquaint the students with various environmental factors that create a profound impact on the business organization. It would also make the students capable of analyzing and understanding the implications of different macroeconomic policies implemented by the Government.
	BBA 304	ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT	To familiarize the budding entrepreneurs with the competencies and qualities of successful entrepreneurs and to help learners understand various issues involved in setting up a private enterprise and develop required entrepreneurial skills in economic development



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5 <sup>th</sup>	BBA 305	CONSUMER BEHAVIOR	The course of Consumer Behaviour aims at enabling students to understand the process of consumer behaviour, issues and dimensions, various internal and external factors that influence consumer behaviour and to apply this understanding to the development of marketing strategy
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	BBA 306	SALES AND DISTRIBUTION MANAGEMENT	The purpose of this paper is to acquaint the student with the concepts which are helpful in developing a sound sales and distribution policy and in organizing and managing sales force and marketing channels.
	BBA 307	FINANCIAL MARKETS AND SERVICES	To advance the understanding of fundamental concepts of financial markets, financial instruments in various markets and important financial services.
	BBA 308	INVESTMENT MANAGEMENT	To advance the understanding of fundamental concepts of security analyses, and working knowledge of portfolio management and evaluation
	BBA 309	SOCIAL SECURITY AND LABOUR WELFARE	The objective of this course is to acquaint the students with the two important aspects of Industrial Relations namely Social Security and Labour Welfare.
	BBA 310	INDUSTRIAL RELATIONS AND LABOUR LEGISLATION	The objective of this course is to acquaint the students with the different aspects of Industrial Relations and the relating labour laws
BBA SEM 6 <sup>th</sup>	BBA 321	BUSINESS POLICY AND STRATEGY	The course structure gives an insight into the strategic planning process done by organizations. The student is required to learn basics of that how a strategy is formed and finally implemented by organizations.
	BBA 322	PRODUCTION AND OPERATIONS MANAGEMENT	This course aims to impart knowledge regarding production and operation management tools, techniques and processes and familiarize students how to take managerial decisions with respect to production function.
	BBA 323	SOCIAL AND ETHICAL ISSUES IN BUSINESS	The objective of this paper is to familiarize the students with the importance of ethics in business and understanding of issues related to corporate social responsibility and corporate governance
	BBA 324	PROJECT REPORT & VIVA- VOCE	



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	BBA 325	ADVERTISING AND BRAND MANAGEMENT	The objective of this course is to provide an understanding of the basic principles of advertising management, nature, purpose & complex constructions in the planning and execution of a successful advertising program and to develop an interest of the brand concept and the operational aspects of managing a brand. The course will expose student to issues in
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			brand management, faced by firms operating in competitive markets.
		MARKETING OF SERVICES	This course aims at enabling students to apply marketing concepts and principles to the unique challenges and opportunities of services marketing to create customer value.
BBA 327		COST ANALYSIS AND CONTROL	The objective of this paper is to provide knowledge to the students about the various components of the cost and techniques of cost control.
BBA 328		ACCOUNTING FOR MANAGEMENT	To acquaint students with concepts of cost and management accounting and their application in managerial decision making.
BBA 329		HUMAN RESOURCE PLANNING AND PERFORMANCE MANAGEMENT	The objective of this course is to help the students gain conceptual understanding of Human resource planning and performance management within an organization
BBA 330		COMPENSATION MANAGEMENT	The objective of this course is to help the students understand basics of managing compensation systems of an organization and understand its application.



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## Name of Program: M.Com.

Class	Subject Code	Subject Name	Objectives
M.COM. SEM 1	M.C.101	MANAGERIAL ECONOMICS	The objective of the course is to acquaint students with the concepts of micro-economic theory and their use in business decision making. The effort is to make them capable of using various concepts to deal with business problems in a global economic environment.
	MC. 102	QUANTITATIVE METHODS FOR BUSINESS	The objective of the course is to acquaint students with some of the important statistical techniques for managerial decision making. The emphasis will be on their applications to business and economic situations.
	MC. 103	MODERN ACCOUNTING THEORY & REPORTING PRACTICES	In view of the convergence of the Indian Accounting Standards with the IFRS, it is desirable to equip the students with the required knowledge of International financial reporting standards and practices. The students are expected to achieve a clear conceptual understanding of the IFRS and possess sufficient knowledge expected out of an expert.
	MC. 104	ORGANISATION THEORY AND BEHAVIOUR	The objective of the course is to develop a theoretical understanding among students about the structure and behavior of organization as it develops over time. The course will also make them capable of realizing the competitiveness for firms.



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	MC. 105	MARKETING MANAGEMENT	The objective of the course is to familiarize the students with the basic concepts and principles of marketing and to develop their conceptual and analytical skills to be able to manage marketing operations of a business firm.
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	MC. 106	MANAGEMENT INFORMATION SYSTEM	The objective of the paper is to offer a comprehensive overview of Management information systems (MIS). It will explore technical, strategic and tactical issues related to MIS. Basic concepts in analyzing and designing information systems will be presented.
	MC. 107	WORKSHOP ON IT APPLICATIONS IN COMMERCE	The objective of the course is to expose the students with the use of IT technologies to solve business problems regarding various functional areas of business
M.COM. SEM 2	MC. 201	BUSINESS ENVIRONMENT	The objective of the course is to acquaint students with the concepts of macro – economics and the macro environment in which a business organization operates. The course would also make the student capable of analyzing and understanding the macro economic policies of the government implemented from time to time and assess their impact on business.
	MC. 202	RESEARCH METHODOLOGY IN COMMERCE	The objective of this paper is to impart knowledge about various stages of the research processes and their application in Commerce and Management Education.
	MC. 203	FINANCIAL MANAGEMENT AND POLICY	The objective of the course is to acquaint the students with the basic analytical techniques and methods of financial management of business firms. The course also provides students the exposure to certain sophisticated and analytical techniques that are used for taking financial policy decisions.
	M.C.204	PRODUCTION AND MATERIALS MANAGEMENT	To impart knowledge regarding production and management techniques, process, tools, and acquaint the students with the knowledge of marketing functions, techniques and strategies.



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	M.C.205	OPERATIONS RESEARCH	To understand the concepts and techniques of Operations Research for business decision making and to acquire required skills to solve various problems in OR.
	M.C.206	BUSINESS POLICY & STRATEGIC MANAGEMENT	The objective of the course is to help the students develop an understanding of the basic inputs in making and implementing corporate strategic decisions and also familiarize them with the issues and practices involved.
	M.C.207	SUMMER TRAINING REPORT AND VIVA VOCE	
M.COM SEM 3	MC. 301	BUSINESS PERFORMANCE MEASUREMENT	The objective of this paper is to make the students familiar with the performance measurement techniques for business.
	MC. 302	TAX PLANNING AND MANAGEMENT	The aim of this course is to familiarize the student with major latest provisions of the Indian tax laws and related judicial pronouncements pertaining to corporate enterprises having implications for various aspects of Corporate planning with a view to derive maximum possible tax benefits admissible under the law.
	MC. 303	INTEGRATED MARKETING COMMUNICATION & BRAND EQUITY	The objective is to introduce the students to the integrated role of promotion techniques with the special emphasis on advertising.
	MC. 304	- MARKETING RESEARCH	The course aims at exposing the students to the concept, tools and techniques of marketing research and developing their skills to be able to apply research techniques to aid marketing decision making



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MC. 305	HUMAN RESOURCE DEVELOPMENT	The objective of the course is to make student aware of the concepts, techniques and practices of human resource development. This course is intended to make students capable of applying the principles and techniques as professionals in organizations they work for.
MC. 306	INDUSTRIAL RELATIONS	The objective of the course is to make student aware of the concept of industrial relations. The course will



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		make them understand the importance of industrial relations for an organization and how these relations provide dynamics to organizations.
MC. 307	INDIA'S FOREIGN TRADE AND INVESTMENT	The objective of this course is to acquaint the students with structure and policy framework of India's foreign trade and investments.
MC. 308	MANAGEMENT OF INTERNATIONAL BUSINESS OPERATIONS	The course intends to acquaint the students with the management of international business operations of a business firm.
MC. 309	STRATEGIC COST MANAGEMENT	This course aims to acquaint the students with concepts and various aspects of cost management from strategic perspective.
MC. 310	INTERNATIONAL ACCOUNTING	The objective of this course is to develop some conceptual knowledge and Understanding of international accounting issues among students. In addition, this course makes students capable of tackling issues in prevailing regulatory environments.
MC. 311	INDUSTRIAL ECONOMICS	The objective of the course is to acquaint students of economic concepts as applied to industrial behaviour. The course makes student capable to analyse and take decisions in respect of a firm's or industry's operations.
MC. 312	APPLIED ECONOMETRICS	The objective of the course is to acquaint students of the methodology of econometrics and make them capable of applying it to business problems. The emphasis will be on application aspects with theoretical understanding
MC. 313	BANK MANAGEMENT	



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MC. 314	INSURANCE MANAGEMENT	This course aims at a familiarizing the participants with the concept of insurance, the risk and its management, various insurance policies and their structure along with the legal dimensions involved. This course also aims at providing the knowledge of Insurance Company's Management.
MC. 315	WORKSHOP ON FINANCIAL MARKETS & INSTRUMENTS	To provide an overview of the financial system in India and functioning of various segments of the financial markets and the financial instruments traded in those markets.
MC. 401	PROJECT PLANNING AND CONTROL	The objective of the course is to provide the student with skills



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M.COM SEM 4 <sup>th</sup>			necessary to create, plan and control a new Enterprise.
	MC. 402	KNOWLEDGE MANAGEMENT	The main aim of the course is to create awareness amongst the students to know the details of Knowledge Management in the changing scenario and its significance in framing the business strategy
	MC. 403	BUSINESS ETHICS AND CORPORATE GOVERNANCE	
	MC. 404	ADVERTISING AND SALES MANAGEMENT	The course aims at enabling the students to develop an in-depth understanding of the modern concepts and latest techniques of advertising and personal selling and sales force Management which constitute a fast - growing area of marketing.
	MC. 405	SERVICES MARKETING	To understand the service product and key elements of services marketing mix. Another objective deals with managing the service delivery process and the implementation of services marketing.
	MC. 406	CONSUMER BEHAVIOUR	Knowledge of consumer behaviour is a prerequisite for developing effective marketing strategy. The purpose of the course is to provide an in-depth understanding of the consumer and industrial buying processes and their determinants as relevant for marketing decision making
	MC. 407	ORGANISATIONAL CHANGE AND DEVELOPMENT	This course is designed to provide I depth understanding of behavioural interventions and enable the students to apply these intervention for building individual, team, system, systems and process related competencies and helping organizational to achieve peak performance and become self sustaining.



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MC. 408	TRAINING AND DEVELOPMENT	The objective of the course is to familiarize the students with basic concepts and principles of Training and Development of Human Resource and train them to understand the learning environment of a firm. The knowledge so obtained will make them capable of providing training to Human Resource of a business firm.
MC. 409	COMPENSATION MANAGEMENT	This course is designed to promote understanding in issues related to compensation in corporate sector and impart skills in designing, analyzing



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			and restructuring compensation management system, policies and strategies.
MC. 413	ADVANCED CORPORATE ACCOUNTING		Corporation is the most important part of the economic development of a company. With pace of development of the emerging scenario, the corporate accounting is also becoming little bit tougher. This paper will enable the students to learn the advanced accounting in the field of corporate world
MC. 414	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT		To enable the students to understand various techniques of analysis used in investment decisions, portfolio analysis and efficient portfolio management.
MC. 415	ADVANCED AUDITING		The basic purpose of this paper is to provide in-depth knowledge of the auditing contemporary issues particularly related to the company audit.
MC. 416	MACRO ECONOMIC ANALYSIS AND POLICY		The Course seeks to provide grounding in basic macroeconomic theory and policy, with a focus on applications, especially in context of developing economies like India.
MC. 417	ECONOMICS OF SERVICES		The objective of this paper is to acquaint the students with the economics of various kinds of services and its related issues.
MC. 419	BANK LEGISLATION		The objective of this course is to apprise the students with the banking law and practice and develop an understanding of various laws affecting banks.
MC.420-	RISK MANAGEMENT		To provide an understanding and an appreciation of the principles and practices of risk management in order to enable production of the optimum strategy for the handling of risk in an organisation.



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MC. 421

ACTUARIAL  
SCIENCES

The purpose of this course is to equip the student with the principles and techniques of actuarial practice. The paper requires at least a prior general knowledge of mathematics and statistics.



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**Name of Programme: BCA**

#### **Programme Outcomes**

PO 1: Students who complete this program will have a foundational grasp of computers and computer programming languages, enabling them to fully comprehend the system and all of its inner workings.

PO 2: This program informs students on the growing number of jobs in the computer industry as well as the widespread usage of computers in a variety of sectors.

PO 3: The curriculum prepares students for the computing world and the range of ideas, issues, and topics that are associated with this area of study.

PO 4: This program gives students a thorough understanding of a variety of computer and technology-related topics, including data structures, operating systems, and computer graphics.

#### **Programme Specific Outcomes**

PSO 1: This Programme specifically provides better job opportunities to the students and professional knowledge in the field of Programming Languages like C, C++ and Java etc.

PSO 2: This programme provides complete insight details of the technical subjects of this field like Computer Architecture, Computational Problem Solving using Python, Digital Electronics and Discrete Mathematics. All these technical subjects will help them to grab a Job Opportunity and work in an efficient way in their respective fields.

PSO 3: The present era of technology is highly demanding the employees with thorough practical training in their required practical approach. This Programme enables the students to solve the real world problems practically and enrich their skills in research and jobs.

PSO 4: The programme specifically provides in depth knowledge of computer to students so that they can build their carrier in this field and take subsequent advantages from the programme course work.



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BCA Sem 1	BCA-16-101	English (Compulsory)	
	BCA-16-102	Fundamentals of Mathematical Statistics	To teach the students the basic techniques of Statistical Methods. After completing this course students will be able to solve various Financial, Scientific and Engineering fields' problems.
	BCA-16-103	Computer Fundamentals and Computing Software	The objective of this course is to familiarize students with complete Fundamentals and the packages commonly used in computing software
	BCA-16-104	Problem Solving Through C	The objective of this course is to make the student understand programming language concepts, mainly control structures, reading a set of data, stepwise refinement, function and arrays. After completion of this course, the student is expected to analyze the real life problem and write programs in 'C' language to solve problems. The main emphasis of the course is on problem solving aspect.
BCA Sem 2	BCA-16-201	English (Compulsory) – B	
	BCA-16-202	Computer Organization	This course will enable the student to understand the basic organization of computer system and system maintenance.
	BCA-16-203	Fundamentals of Web Programming	This course will enable the student to build and publish web sites using HTML, DHTML, CSS, JavaScript and Dreamweaver
	BCA-16-204	Object Oriented Programming using C++	By the end of the course, students will be able to write C++ programs using the more esoteric language features, utilize Object Oriented techniques to design C++ programs, use the standard C++ library, and explore advanced C++ techniques
BCA Sem 3	BCA-16-301	Punjabi – A	
	BCA-16-302	HISTORY AND CULTURE OF PUNJAB – A	To introduce the students to the history of the Punjab region.
	BCA-16-303	Information System and Design Implementation	To teach the students about the various aspects of Information Systems to be developed their analysis and design. The motive is to aware the learners about prerequisite of software development and associated paradigms. After completing this course students will be able to be analyse and design information systems
	BCA-16-	Computer	To teach the students the essential techniques of



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	304	Oriented Numerical Methods	Numerical Methods. After completing this course students will be able to solve various Scientific and Engineering fields' problems.
	BCA-16-305	Data Structures	To teach the students various data structures and the basic operations performed using them. At the end of course the student will have complete knowledge of data structures, thus will be able to use them for solving real world problems.
BCA SEM 4 <sup>th</sup>	BCA-16-401	Punjabi (Compulsory) – B	
	BCA-16-402	History and Culture of Punjab – B	To introduce the students to the history of Punjab region in the Modern times
	BCA-16-403	Software Project Management	To teach the students important concepts, terms related to various phases during the development of a software project. At the end of the course the student will be able to apply software project management techniques to manage a software project
	BCA-16-404	Operating System Concepts and Linux	The objective of the module is to create skills of students in operating systems concepts and Linux commands.
	BCA-16-405	Database Management System	This course aims at giving the students the insight of the underlying concepts of database management system and implement them using Database software.
BCA SEM 5 <sup>th</sup>	BCA-16-501	Computer Networks	The objective of the course is to: <ul style="list-style-type: none"> <li>• Offer knowledge about computer network related hardware and software using a layered architecture.</li> <li>• Provide good understanding of the concepts of network security, wireless and various emerging network technologies.</li> </ul>
	BCA-16-502	Discrete Mathematical Structure	In this paper, Students will learn and be able to acquire the knowledge of Logic, Relations and Functions. Algebraic Functions and Graph Theory will also be discussed in this paper.
	BCA-16-503	Java Programming	This course aims at giving student knowledge about all the programming concepts of JAVA programming language.
	BCA-16-504	Web Application Development using PHP	This course enables students to do web programming using PHP and MySQL. It would enable them to develop websites and other web based applications.



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BCA Sem 6 <sup>th</sup>	BCA-16-601	E-Commerce	The objective of this course is to understand the process of electroniccommerce and familiarizes students with the technology involved in it.
	BCA-16-602	Application Development using VB.Net	The course is designed to enable the students to develop applications usingevent driven programming with VB.net (as front end) and accessingdatabase at back end.
	BCA-16-603	Computer Graphics and Multimedia Applications	The objective of the course is to introduce basic computer graphics concepts and algorithms. The student will also learn about essential conceptsused in developing multimedia applications.



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#### **Name of Programme:PGDCA**

#### **Programme Outcomes**

PO 1: This one year programme formulates the development of computing and practical skills in the students to enhance their introductory knowledge of using the systems efficiently.

PO 2: The students from various degree programme of other fields can construct thorough advantages from this programme and use their computer practical knowledge along with their degree course.

PO 3: The main objective of this programme is to demonstrate students with basic knowledge of Computer, PC Computing, Data Base Management System and Internet.

PO 4: This programme will enable the students to work in environment where systems are being highly used and they can use their skills to ensure the better productivity.

#### **Programme Specific Outcomes**

PSO 1: This programme specifically prepares the students for this competitive world where computers are playing a vital role and it is necessary for all the employees to have thorough knowledge of computers.

PSO 2: Along with the basic concepts of Computer, this programme provides students with the practical knowledge of MS- Office, PC Computing, Oracle and HTML also.

PSO 3: This programme will specifically help the students to grab jobs in IT Sector and make themselves ICT enabled to work in various Organizations, Companies, Banks and MNCs.



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### PGDCA

Class	Subject Code	Subject Name	Objectives
PGDCA Sem 1	PGD-1101	Computer Fundamentals	The objective of the course is to familiarize students with basic concepts related to Computers, DOS, Windows, Linux and application software's like Word-processing, Spreadsheet Software and Presentation Software.
	PGD-1102	Computer Programming Using C	The objective of the course is to familiarize students with programming concepts of 'C' including functions, Arrays, strings etc
	PGD-1103	Data Base Management System	The objective of the course is to make the students understand Database concepts and SQL.
	PGD-1104	Data Communications and Networks	The objective of the course is to make the students understand Layered structure of Networks and working of different Layered.
PGDCA sem 2	PGD - 2101	Object Oriented Concepts Using JAVA	The objective of the course is to familiarize students with Object Oriented concepts including inheritance, visibility control etc. using JAVA programming language.
	PGD - 2102	Web Technologies	This course familiarizes students with concepts of HTML, CSS, JAVA Scripts and PHP.
	PGD -2103	Software Engineering	This course make students understand concepts related to Software Engineering including process model, project management, design and testing.
	PGD - 2104	Computer Based Accounting	This course make students understand accounting principle and computerized accounting.



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	PGD-2107	Project Work	Major Project on any database application using any database development tool is to be developed/ Development of a Web Site using Database connectivity
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**Name of Programme: B.Sc(Bio Technology)**

#### Programme Specific Outcomes

PSO 1: Students gain English articulation skills through in-person interviews and group discussions.

PSO 2: Technical knowledge can only be expressed by appropriate word choice, and students can learn how to properly organize their thoughts into a written structure.

PSO 3: Students' self-assurance levels rise

PSO 4: This Program Aids Them in Further Education

#### B.Sc (Bio-Tech)

B.Sc(Bio Tech) Sem 1	BIOT-101-T	English	
	BIOT-102A/ 102A-T	Punjabi /HISTORY AND CULTURE OF PUNJAB FROM THE EARLIEST TIMES TO 1849	To introduce the students to the history of Punjab region.
	BIOT-103A	Mathematics	To study the different concepts of limits, differentiation, integration and calculus so as to apply these concepts in biotechnology. • To learn solutions to quadratic, cubic equations, differential equation, linear equation and thus study the applications in biotechnology.
	BIOT-103B- T	Life Sciences	To increase scientific vocabulary and understanding of a variety of life science concepts. • To learn about the anatomy and physiology of animals and animal systems. • To study ecology and ecosystems.
	BIOT-104-T	Chemistry	Without chemical reactions, biological systems cannot work. So understanding the concepts of basic chemistry inorganic, organic and various laws and their applications in Biotechnology is important.
	BIOT-105-T	Physics	Physics is one of the important basic sciences and Biotechnology is based upon these. Introduction to basic course of Physics will enhance the grasping



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			of subject.
	BIOT-106-T	Introduction to Biotechnology	This course will introduce the basic concepts of biotechnology to the students. They will learn about the history of biotechnology; the



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			foundations of modern biotechnology; the role of biotechnology in fermentation industry, environment and modern medicine and the ethical implications of biotechnology.
B.Sc. Sem 2	BIOT-201-T	English	
	BIOT-202B/ 202B-T	Punjabi/HCP	To introduce the students to the history of Punjab region in modern times

### BSc (Non –Medical)

	BIOT-203-T	Statistics & Computer Fundamentals	To learn applications of statistics in the field of biology. <ul style="list-style-type: none"> <li>• To study concepts of probability, averages, distributions, tests of deviations, correlation and linear regression.</li> <li>• To learn to design experiments and analysis of results by tests of significance or analysis of variance.</li> </ul>
	BIOT-204-T	Basic Biochemistry	To make student conversant with the biochemical aspect of cell, chemical structure & function of various biomolecules.
	BIOT-205-T	Cell Biology	To understand the detailed overview of eukaryotic cell and its inner components • To understand the processes of cell transport and cell locomotion • Introduction to stem cells and their applications
	BIOT-206-T	General Microbiology	Microbes play significant role in understanding medical science and industries so study of microbes from basic to advance level, with understanding of biochemistry, cell structure and application makes this paper significant.
SEM 3 <sup>rd</sup>	BIOT-Sem-III-I-T	Biochemistry	To familiarize the students with the biochemical activities taking place at cellular level, highlighting the enzymatic reactions, metabolic pathways and biochemical aspect.
	BIOT-Sem-III-II-T	Genetics	The focus of this course is on the science of heredity with emphasis on the basics of Mendelian and molecular genetics. It will familiarize students with chromosome organization, linkage, chromosome mapping, chromosome aberrations, mutations and microbial genetics.



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	BIOT-Sem-III-III-T	Immunology-I	To understand general aspects of immune system like different components of the immune system, Generation and functions of these components, Knowledge of basic immunological techniques.
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	BIOT-Sem-III-IV-T	Plant Tissue Culture	To introduce the students with fundamentals and applications of plant tissue culture. This course will expose students to the methods of culturing, maintaining and regenerating plants species.
	BIOT-Sem-III-V-T	Animal Cell Culture	The major emphasis of this course is to introduce the students to the field of Animal cell-culturing and its importance to mankind. The students will also learn the techniques involved in animal cell culture
Sem 4 <sup>th</sup>	BIOT-Sem-IV-I-T	Immunology-II	: This course will introduce students to the principles of advanced Immunology, both at the molecular and cellular levels.
	BIOT-Sem-IV-II-T	Biophysical and Biochemical Techniques	To enable the students learn important tools and techniques based on biophysical and biochemical principles so that they can understand application of these techniques in biotechnology
	BIOT-Sem-IV-III-T	Plant Biotechnology	The objective of this course is to familiarize the students with different aspects of plant molecular biotechnology and techniques for plant genetic manipulations.
	BIOT-Sem-IV-IV-T	Animal Biotechnology	The major emphasis of this course is to introduce the students to the advances in the field of Animal and their importance to mankind.
	BIOT-Sem-IV-V-T	Agro & Industrial Biotechnology	This course will introduce students to the concepts of agriculture as industry. This course will help students to understand the application of fundamental concepts like transgenic approaches to improve crop plants, microbial culture maintenance, and metabolite purification at industrial level.
	BIOT-Sem-V-I-T	Molecular Biology	To make the students understand the fundamental concepts which includes DNA structure, replication, transcription, translation, mutation, gene regulation
	BIOT-Sem-V-II-T	Bioanalytical tools	



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Sem 5 <sup>th</sup>	BIOT-Sem-V-III-T	Environmental Biotechnology	The course focuses on an introduction to environment, major threats to environment by various polluting agents and the remedies for the same, incorporating design and monitoring of waste treatment processes. As well as learning environmental technology fundamentals, with special focus on biological treatment processes, environmental management. The course is use of biotechnology to design cleaner manufacturing processes and to solve pollution problems. It is ideal for under graduates just embarking on their
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			career, or scientists and engineers who have been working for a few years and wish to develop their career in this direction.
	BIOT-Sem-V-IV-T	Bioinformatics	
	BIOT-Sem-V-V-T	Enzymology	
Sem 6 <sup>th</sup>	BIOT-Sem-VI-I-T	GENETIC ENGINEERING	Genetic engineering refers to the process of manipulating the characteristics and functions of the original genes of an organism. The objective of this process is to introduce new physiological and physical features or characteristics. The students will learn how the genes can be cut and paste from one organism to another and what are its implications.
	BIOT-Sem-VI-II-T	BIOPROCESS ENGINEERING AND TECHNOLOGY	
	BIOT-Sem-VI-III-T	FOOD BIOTECHNOLOGY	
	BIOT-Sem-VI-IV-T	GENOMICS AND PROTEOMICS	
	BIOT-Sem-VI-V-T	INTELLECTUAL PROPERTY RIGHTS AND ETHICAL ISSUES IN BIOTECHNOLOGY AND ENTREPRENEURSHIP	To introduce the students to intellectual rights and how to use the current intellectual property system to protect and commercialize their biotechnological invention. This course also covers the ethical issues, controversies and social-ethical impact of biotechnology on society.



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## **Bachelor in Arts (B.A.)**

### **Program Outcomes**

PO 1: Effective Communication: The program familiarizes students with the subtleties and applications of language in both formal and informal contexts.

PO 2: Effective Citizenship: The students learn about literature, the visual arts, performing arts, and social sciences and develop into responsible members of the community.

PO 3: Social Interaction: The students are familiar with the historical, political, economic, and psychological fronts of various circumstances.

PO 4: Self-directed Learning: Students are allowed to select their own areas of interest within the program.

### **Programme Specific Outcomes**

PSO 1: To inculcate a proficiency in English Language

PSO 2: To understand the nuances and techniques of usage of English language in formal and informal expression in our life.

PSO 3: To have a critical understanding of the society from the literature- diachronically and synchronically, in the light of various world theories of sociology, psychology, economy.

PSO 4: To develop a critical perception of the world thoughts and theories through literature

PSO 5: To apprise students of a class ridden society we are a part of, build values for global peace, and create a bend towards an equalitarian society or gender neutralization.

<b>Computer Application</b>	<b>Paper Code</b>	<b>Paper Name</b>	<b>Objectives</b>
Sem 1	Paper –CA01	Fundamentals of IT	This course will enable students to get familiar with computer fundamentals and programming fundamentals.
	Paper –CA02	Application Software	This course will enable students to get familiar with Application Software for Word processing, Spreadsheet, Presentation and Data Base Management.



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Sem 2	Paper CA03	C Programming Language	The course will enable students to understand the basics of C programming language
	Paper-CA04:	Operating System Concepts	The course will enable the students to get familiar with concepts of operating system in general.



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Sem 3 <sup>rd</sup>	Paper CA05:	Programming in C++	The course enables the students to get familiar with the features of Object Oriented programming language using C++.
	Paper-CA06	Web Designing	This course enables students to create web pages using HTML, CSS, Java script and dream weaver.
Sem 4 <sup>th</sup>	Paper CA07	Data structures	The course enables the students to get familiar with the basic concepts of data structures and develop programs using different concepts
	Paper CA08	Java Programming	The course enables students to understand the basics of DBMS.
Sem 5 <sup>th</sup>	Paper-CA09:	Programming with VB.NET	The course is designed to enable the students to develop applications using event driven programming with VB.net.
	Paper CA10	Database Management using Oracle	The course is designed to enable the students to understand basic database concepts and managing database using SQL queries
Sem 6 <sup>th</sup>	Paper CA11	Computer Networks	The course enables students to understand the basics of Computer networking
	Paper CA12:	Working with Linux	The course enables the students to get familiar with LINUX Operating system.
<b>SUBJECT</b>	<b>SEMESTER</b>	<b>PAPER TITLE</b>	<b>OBJECTIVE</b>
History	Sem 1	HISTORY AND CULTURE OF PUNJAB FROM THE EARLIEST TIMES TO PREMAURYA N PERIOD	To introduce the students to the history of the early history of the region
	Sem 2	HISTORY AND CULTURE OF PUNJAB FROM MAURYAN TIMES TO 1200 A.D.	To introduce the students to the history of the early history of the region
	Sem3	SOCIAL AND CULTURAL TRENDS IN ANCIENT INDIA	To introduce the students to the history of the ancient period in Indian history.
	Sem 4	Paper II: SOCIAL AND CULTURAL TRENDS IN MEDIEVAL INDIA	To introduce the students to the history of the ancient period in Indian history.



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Sem 5	(i) History of China OR (ii) History of Russia	
Sem 6 <sup>th</sup>	(III) Social Origins of Right And Left Wing Dictatorship Of Modern Times	



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		OR (iv) USA and the World c.1800-1960's	
Pol Sc.	Sem 1	POLITICAL THEORY-I	The objective of this paper is to introduce first year undergraduate students to some of the basic aspects, concepts and themes in the discipline of Political Science.
	Sem 2	POLITICAL THEORY-II	The aim of this paper is to deepen and expand the knowledge of the student in Political Science. It introduces higher level concepts and themes in political theory. It will provide students with the tools to engage with some key political issues of our times.
	Sem3	International Relations 1917-1945	The essential concern of the course is with the period between the Bolshevik Revolution and the end of the Second World War. However, to facilitate better understanding of the developments during this period, it is very essential that the teacher familiarizes the students with the major currents of international politics immediately preceding the First World War as well as during the course of that war. Needless to say, no question will be asked on the period up to the Bolshevik Revolution.
		Option (ii) : Colonialism and Nationalism in Modern India	The paper aims at enabling the students about the nature and evolution of the Indian National Movement and constitutional development in colonial India.
	Sem 4	OPTION (i) WESTERN POLITICAL THOUGHT  OPTION (ii) C O M P A R A T I V E POLITICS	This paper aims to introduce to the students the major themes of western political thought. This will be done by undertaking an indepth study of the key thinkers of this tradition  The objective of the course is to familiarize students with recent debates and theories concerning advanced industrial as well as developing societies and this will be undertaken in a comparative framework.
Sem 5 <sup>th</sup>	Option (i) International Relations since 1945. OR Option (ii) Modern Indian Political Thought. OR Option (iii) Women and Political Process.		



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	Sem 6	Option (i) Research Methods in (Political Science) Social Sciences. OR Option (ii) Modern Political	
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		Ideologies OR Option (iii) Western Political Thought.	
Economics	Sem 1	MICRO ECONOMICS	Microeconomics is concerned with the analysis of economic phenomena from the perspective of the individual. The course covers the basic concepts and tools needed to undertake the analysis of such problems that arise due to the law of scarcity. The course also aims at introduction of the functioning of competitive and noncompetitive product markets and performance of the markets for resources. The students are expected to develop rudimentary understanding of how and why consumers, firms, and markets in the economy function the way they do.
	Sem 2	MACRO ECONOMICS	This paper aims to familiarize the student with the generally accepted principles of macroeconomics. It deals with aggregates i.e. consumers as a whole, producers as a whole, exporters and importers as a whole, the effects of government spending and taxation, and the monetary policy of the central bank. The course includes the basic theories of determination of income, consumption, investment, employment, money and interest, inflation, Monetary and Fiscal policies, and business cycles.
	Sem 3	Paper-I : ECONOMICS OF AGRICULTURE Paper -II : HISTORY OF ECONOMIC THOUGHT  Paper-III: Economics of Population	



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	Sem 4	The candidates are required to study one paper out of the following three papers : I Industrial Economics. II Economics of Public Enterprises. III Theory of Statistics.	
	Sem 5	Paper-I : MONEY AND BANKING	Money and Banking constitute important components towards understanding of economics. A clear understanding of the



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			operations of money and banking and their interaction with the rest of the economy is essential to realize how monetary forces operate through a multitude channels- market, non market, institutes and among others, the state. The operation of financial markets and their regulations are to be studied to appreciate their key-role in an economy, especially after the far reaching banking and financial sector reforms in India and elsewhere. The present course is designed to acquaint the students fully with the changing role of financial institutes in the process of growth and development. Accordingly, the paper on 'Economics of Money and banking' is an optimal interaction of monetary theory, banking and non- banking financial institutes, which combines with itself a systematic discussion of the theory, institutions and policy with special reference to India
	Sem 6 <sup>th</sup>	Environmental Economics	This paper aims to make aware students about the importance of environment in economics and vice-versa. It helps them to know the ways of sustaining our resources by optimally allocating them for future use
Public Admin	Sem 1	ADMINISTRATIVE THEORY	The objective of this paper is to acquaint the student with the basic concepts and principles of public administration. In addition, the paper would trace the evolution of public administration and its relationship with other social sciences.
	Sem 2	INDIAN ADMINISTRATION	The objective of this paper is to give the student an in-depth understanding of various aspects of Indian administration particularly the functioning of executive, legislature and judiciary at the union and state levels. It would also make them aware of the bureaucratic set up at these levels.
	Sem3	PAPER- I: ADMINISTRATIVE THOUGHT	The objective of the paper is to give the student an understanding of select ancient, classical, neo-classical and modern administrative thinkers and their contribution to administration.



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Sem 4	Option (i) : Agricultural Administration in India Option (ii) : Industrial Administration in India Option (iii) : Police Administration Option (iv) : Public Policy and Analysis	The objective of the paper is to give the student an in-depth knowledge about the role of agriculture in the economic development of the country, role of technology in agricultural development, marketing of agricultural produce. It would also give understanding about the agricultural policies of the government and introduce the student to certain related issues like agricultural finance, agricultural education, research, and extension.
Sem 5	Paper- III : RESEARCH	The objective of the paper is to give the student an in-depth understanding about the nature and



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		METHODS AND STATISTICS	scope of Social Research, Methods of Social Research, data collection and data processing. It would also acquaint the students with basics of sampling and statistical methods including measures of central tendency, dispersion, correlation and Chi-Squares Test.
	Sem 6 <sup>th</sup>	Option (i) : Organisation Behaviour Option (ii) : Cooperative Administration in India Option (iii) : Public Enterprise Management (with special reference to India) Option (iv) : Environment Administration in India Option (v) : Emerging Issues in Public Administration	The objective of the paper is to give the student an in-depth insight into the various aspects and factors affecting individual, interpersonal and group behaviors in organisations. The key areas include study of human behavior and concepts like Attitudes, Morale, Leadership, Motivation and Organizational Change.
Psychology	Sem 1	GENERAL PSYCHOLOGY-I	The course introduces to the students the general concepts and historical viewpoints in general psychology. The students would also get an understanding of the principles and theories in different areas like personality, motivation, intelligence, etc. The course also apprises them of the concept of growth and development and also introduces them to the elementary statistics.
	Sem 2	GENERAL PSYCHOLOGY-II	The course introduces to the students the general concepts and historical viewpoints in general psychology. The students would also get an understanding of the principles and theories in different areas like personality, motivation, intelligence, etc. The course also apprises them of the concept of growth and development and also introduces them to the elementary statistics.
	Sem3	SOCIAL PSYCHOLOGY	Social Psychology course emphasizes the relationship between society and individuals. It also enables the students in understanding group dynamics, role of attitudes and leadership behaviour in the society
	Sem 4	RECENT PERSPECTIVES OF PSYCHOLOGY	This course aims at helping the students to appreciate the basic assumptions, principles and historical roots of modern scientific psychology. It will also help them to understand main theoretical perspective in psychology.



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	Sem 5	PSYCHOLOGICAL TESTING	Its aim is to introduce the students history, importance and classification of psychological testing and provide them with knowledge and procedure of test construction and standardization.
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	Sem 6 <sup>th</sup>	Counselling and Organizational Psychology	Its aim is to introduce the students history, importance and classification of psychological testing and provide them with knowledge and procedure of test construction and standardization.
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