IPS ACADEMY, INDORE	
Course Outcomes (CO)	
MBA (FT) I SEM	
Subject: Accounting for Managers	
CO1	Acquaintance with the basic concept of Financial, Cost, and Management Accounting.
CO2	Preparation of financial statements in accordance with Generally Accepted Accounting
	Principles
CO3	Develop critical thinking skills to analyze financial data as well as the effects of differing
	financial accounting methods on the financial statements
CO4	Demonstrate the ability to communicate accounting data effectively, as well as the ability
	to provide knowledgeable recommendations
Subject: Business Communication	
CO1	Understand the basics of Business communication and corporate communication.
CO2	Develop interpersonal skills that contribute to effective and satisfying personal, social and
	professional relationships.
CO3	Learn skills related with personality development as per the requirement of the corporate
	world.
CO4	Understand and demonstrate the use of basic and advanced proper writing techniques that
	today's technology demands, including anticipating audience reaction
Subject : Business Environment	
CO1	Analyze the environment of a business from the legal & regulatory, macroeconomic,
	cultural, political, technological and natural perspectives.
CO2	Familiarize the students with the business environment prevailing in India and in the world.
CO3	Assess the impact of International Trade on Indian economy.
CO4	Provide the understanding of ethical principles of corporate governance and the nature of
	their enforcement.
Subject: Business Legislation	
CO1	Understanding of the nature and sources of law, and the governing legal and judicial
	system.
CO2	Apply basic legal knowledge to business contracts.
CO3	Awareness of the different latest provisions of the law.
CO4	Application of legal theory to determine the legal issues in assigned cases
Subject: IT and E-Business Fundamentals	
CO1	Basic understanding of Information Technology and E-Business fundamentals
CO2	Knowledge of Computer fundamentals and applications of MS-Office in business
CO3	Awareness of E-business, Cyber security threats & other related issues
CO4	Learning optimum uses of e-resources like websites, search engines, shopping sites, etc
Subject: Management Principles and Practices	
CO1	Understanding of the functions and responsibilities of the manager
CO2	Learn about the tools and techniques for the enhancement of the performance on the
	managerial profile.
CO3	Enable the understanding of the student for organizational environment
CO4	Integrate management principles into management practices.
Subject: Mathematics & Statistics for Managers	
CO1	To prepare students for lifelong learning and successful careers using their mathematical
	and statistical skills
CO2	To develop decision making skills pertinent to the practice of mathematics and statistics,
	including the students' abilities to formulate problems, to think creatively, and to synthesize

	information.
CO3	To train students thoroughly in methods of analysis and algebra, including the
	computational skills appropriate for mathematicians to use when solving problems
CO4	To teach students to use current mathematical and statistical concepts and data analysis
	techniques for problem solving
Subject: Organizational Behavior and Processes	
CO1	Demonstrate an understanding of key terms, theories/ concepts and practices within the
	field of HRM
CO2	Demonstrate competence in development and problem solving in the area of HR
	management.
CO3	Analyze the key issues related to administrating the human elements such as motivation,
	compensation, appraisal, career planning and training.
CO4	Describe the meaning of terminology and tools used in managing employees effectively.
MBA (FT) II SEM	
Subject: Business Research Methodology	
CO1	To provide deeper knowledge and experience in applying commonly used qualitative and
	quantitative research methods to the research process.
CO2	Refine research questions to meet high level research objectives/questions.
CO3	Develop data collection instrument according to the underlying theoretical framework.
CO4	Understand the steps of conducting the business research and writing the research report.
Subject: Entrepreneurship	
CO1	Understanding the basics of Entrepreneurship and real life issues therein.
CO2	Application of Theoretical concepts into practice while facing business problems.
CO3	Contributes in Developing Reasoning and Analytical ability to foster Decision Making.
CO4	Nurturing Entrepreneur Skills and Leadership Abilities.
Subject : Business Ethics & Management by Indian Values	
CO1	Understand the relevance of Indian Ethos for further enrichment of holistic leadership
	principles and practices.
CO2	Application of several important concepts and frameworks for moral reasoning to complex
	business issues.
CO3	Application of ethics to business, management, and decision making.
CO4	Provide insights to participants for developing leadership that is socially, environmentally
	and culturally responsible
Subject: Fundamentals of Financial Management	
CO1	To Understand the Financial Management, sources of finance and describe basic financial
	decisions.
CO2	To analyze the financial statements by using various financial tools and application of FFS
	and CFS
CO3	Describe , Leverage, Budgeting, Cost of capital, Capital structure theories and analysis of
	the same by applying various techniques
CO4	Analyze the investment decisions by using various financial tools and understanding of
	working capital, dividend decision
Subject: Fundamentals of Operations Management	
CO1	To gain an understanding and appreciation of the principles and applications relevant to the
	planning, design, and operations of manufacturing/service firms.
CO2	Understand the interdependence of the operations function with the other key functional
	areas of a firm
CO3	Apply analytical skills and problem-solving tools to the analysis of the operations problems

CO4	Increase the knowledge, and broaden the perspective of the world in which you will
	contribute your talents and leadership in business operations
Subject: Human Resource Management	
CO1	To make the students aware of the various concepts, process and practices of HRD in the
	present Corporate world.
CO2	To enable the students to work as a catalyst who can enhance cordial work relations in an
	organization.
CO3	To understand the concept of work-life balance along with their career advancement.
CO4	To develop a holistic approach towards culturally diverse employees.
Subject: Fundamental of Marketing Management	
CO1	Understand the dynamics of marketing in business
CO2	Relate marketing theories to practical situation
CO3	Develop unique marketing mix
CO4	Construct sales plan and professional interactive presentation
Subject: Operations Research in Decision Making	
CO1	Understand the basic concepts of different advanced models of operations research and
	their applications.
CO2	Apply the models to incorporate rational decision making process in real life situations.
CO3	Formulate organizational problems into OR models for seeking optimal solutions.
CO4	Understand & use analytical and numerical techniques to make predictions and decisions
MBA (FT) III SEM	
Subject: Project Management	
CO1	Understand the Concepts of Project management at the individual, team and
	organizational level and also understand the Team-building skills required to support
	successful performance
CO2	Practical applications of project management to formulate strategies allowing organizations
	to achieve strategic goals. And give a perspective of leadership effectiveness in
	organizations
CO3	Learn to develop a project scope while considering factors such as customer requirements
	and internal/external goals
CO4	Develop Critical-thinking and analytical decision-making capabilities to investigate complex
	business problems to propose project-based solutions
Subject: Strategic Material & Supply Chain Management	
CO1	This course will expose students to the challenges involved in managing supply chains.
CO2	To demonstrate the students the complexity of inter-firm and intra-firm coordination.
CO3	The subject focuses on relatively long term decisions involving the investment in productive
	resources, configuration of processes, product designs, and development of partnerships
	with suppliers and channels of distribution.
CO4	This course will enhanced student's ability to use analytical tools and conceptual
	frameworks to make decisions in supply chain contexts as well as a better understanding
	of the major strategic issues and trade-offs that arise in supply chain management
Subject : Bank and Insurance Management	
CO1	Critically understand the theories, concepts and legal implications related to banking and
	insurance subject areas.
CO2	Understand the risks faced by banks and ways to overcome them.
CO3	Understand the importance of life and non life insurance in risk management and selection

	of right type of policy.
CO4	Analyze financial statements of banking and insurance sector
Subject: Financial System & Services	
CO1	Describe the role and structure of the financial system;
CO2	Explain key concepts such as financial claim, financial intermediation and financial
	market.
CO3	Discuss theories on financial markets and institutions that help explain phenomena such
	as adverse selection and moral hazard.
CO4	Explain the concepts and functions of different types of financial instruments.
Subject: Tax Planning & Managemement	
CO1	To Understand the basic principles & provisions of Direct Tax laws & definitions of Previous
	Year , Assessment Year, Residential Status of Individual with determination.
CO2	To Understand the rules to determine the Income from Five heads covered under Income
	tax act 1961 & Application of such rules.
CO3	To Apply the rules of deduction covered u/s 80 c to 80 U to determine the Total Taxable
	Income
CO4	To Understand the Provisions of Tax Planning for Non Resident Individual.
Subject: Advertising and Brand Management	
CO1	Identify and respond to clients' advertising and marketing communications objectives by
	applying principles of communications.
CO2	Relate theoretical aspects of advertising on practical situation
CO3	Develop unique promotional and branding strategies
CO4	Design advertising campaign and branding plans
Subject: Product Policy Management	
CO1	Understand the dynamics of product management
CO2	Relate virtual product design to practical situation
CO3	Develop unique product strategy
CO4	Construct product design and new product development
Subject: Sales and Distribution Management	
CO1	Identify and respond to clients' selling and distribution needs
CO2	Relate theoretical aspects of sales and distribution theories to practical aspects
CO3	Develop unique sales and distribution strategies
CO4	Design effective distribution channels
Subject: Human Resource Development & Audit	
CO1	Demonstrate an understanding of key terms, theories/ concepts and practices within the field of
	HRM.
CO2	Demonstrate competence in development and problem solving in the area of HR management.
CO3	Analyze the key issues related to administrating the human elements such as motivation,
	compensation, appraisal, career planning and training.
CO4	Describe the meaning of terminology and tools used in managing employees effectively.
Subject: Industrial Relations and Labour Law	
CO1	The students are to be acquainted with industrial relations framework in our country
CO2	The importance of the maintenance of industrial peace and efforts to reduce the incidence of strike
	and lockout
CO3	To critically examine the provisions in the various industrial Disputes Act, for the prevention and
	settlement of industrial disputes
CO4	Learn underlying the disciplinary enquiry for misconduct are to understood in view of acquaint

	misconduct and procedure to be followed before imposing punishment for misconduct alleged and
	established
Subject: Social Psychology	
CO1	Initiates understanding of Human Behavior Concepts at work place.
CO2	Enhance creative application of Social Psyche Fundamentals to analyze work efficiency of
	employees.
CO3	Helps realize significance of Non Verbal Communication in organization.
CO4	Educates and make young minds realize the significance of safety management in organization.
Subject: Product Innovation and Planning	
CO1	This provide students an in-depth understanding of innovation and new product development
	using a management framework
CO2	It focuses on how to create value and growth through innovation in new and existing markets
	Students will explore the concepts, methods and tools on how to organize and manage
CO3	innovation process with the objective to better control cost and risk, examine the process of
	developing new products and many of the new product management issues faced by companies
	Students will learn to understand how firms can improve the way they manage their innovation
CO4	processes to develop new products and services and keep abreast of the most recent
	developments in the innovation field
Subject: Strategic Technology Management	
CO1	Learn Various Strategic management instruments.
CO2	Be able to access and manage business risk strategically
CO3	Learn to Recognize the special opportunities and challenges presented by the global business
	environment.
CO4	Understand economic and behavioral concepts to strategy formulation
MBA (FT) IV SEM	
Subject: Strategic Management	
CO1	Knowledge of various functional areas and other aspects of management.
CO2	Understanding for the concepts and tools that support strategic management in
	organizations is developed
CO3	Ability to apply the concepts to analyze strategic issues in organizations and to develop
	strategies
CO4	Specific knowledge of frameworks and concepts related to strategy formation, strategic
	change, and strategic innovation
Subject: Corporate Governance & Global Business Environment	
CO1	Acquaintance with the global practices of corporate governance. The course enables the
	students to get well versed with the evolution and main drivers of corporate governance.
CO2	Students become apprised with the essentials and practices of corporate governance in
	India and different nations.
CO3	Understanding of varied business global environment and the knowledge of International
	Operations and Finances are developed.
CO4	Ability to comprehend contemporary changes and challenges in the global business
	environment in future is developed
----------Fin----------	
Subject : Financial Engineering & Risk Management	
CO1	Describe the basic characteristics of derivatives market;
CO2	Describe the uses of derivatives by hedgers, speculators and arbitrageurs
CO3	Define and describe the traded and over-the-counter derivative contracts on different

	underlying assets
CO4	Describe and use the different models used for pricing derivatives and used of various
	strategies
Subject: Investment Analysis & Portfolio Management	
CO1	Describe the basic characteristics investment and its types
CO2	Understand the risk and return concept and valuation of securities
CO3	Analyze securities by using various tools and technique
CO4	Apply theories and practices of portfolio management and create optimal portfolios using
	various portfolio optimization techniques
Subject: International Strategic Finance	
CO1	Understand structure of international Foreign Exchange market.
CO2	Describe the various currency arrangements a country may adopt.
CO3	Identify opportunities for arbitrage and discuss methods to exploit these opportunities.
CO4	Evaluate cross-border investment opportunities, and describe a multinational firm's
	decision-making process for long-term capital budgeting, short-term cash-flow
	management, and the management of foreign operations.
----------Mkt----------	
Subject: Consumer Behavior and Rural Marketing	
CO1	Apply basic rural marketing theories and concepts of consumer behavior to understand the
	market
CO2	Understand rural environment and consumer behavior in order to develop appropriate
	objectives and strategies
CO3	Develop unique rural marketing plans
CO4	Design and implement effective rural marketing strategies after understanding consumer
	behavior
Subject: International Marketing	
CO1	Apply basic international marketing theories and concepts to understand the environment
CO2	Understand international environment in order to develop appropriate international
	marketing objectives and strategies
CO3	Develop unique international marketing plans
CO4	Design and implement effective market access strategies
Subject: Service and Retail Marketing	
CO1	Apply basic service and retail marketing theories and concepts to understand the market
CO2	Understand service and retail environment in order to develop appropriate objectives and
	strategies
CO3	Develop unique service and retail marketing plans
CO4	Design and implement effective service and retail marketing strategies
----------HR----------	
Subject: Business Process Transformation	
CO1	Enhance ability of working in team, for achieving organization goals.
CO2	Fosters innovative and creative thinking.
CO3	Creates awareness about importance of Quality Concepts at work place.
CO4	To help them understand the approaches of change and adapt to them accordingly.
Subject: Compensation Management	

CO1	To help them analyze current trends in compensation management
CO2	To acquire an understanding of theoretical concepts and its practical applicability
CO3	To create a successful link between organizational goals, performance and compensation
CO4	To have knowledge about laws related to compensation
Subject: Organizational Development	
CO1	Learn methods and techniques to improve the organizations and individual capacity to handle its
	internal and external functioning and relationship
CO2	To offer insights into organization design, development and delivery of OD programmes for
	improved interpersonal and group processes
CO3	To acquaint the students learning organizational improvement strategy to have more effective
	communication, and enhanced ability to cope with organizational problems of all kinds
CO4	To acquaint the students learning integrated framework capable of solving most of the important
	problems confronting the human side of organizations
----------Operation----------	
Subject: Business Process Reengineering	
CO1	Develop logical thinking abilities
	Learn the concepts associated with the analysis, design, and implementation of Process
CO2	
	Reengineering
CO3	Learn to apply engineering principles in product development using emerging technology
CO4	Understand analytical constructs to business problem solving
Subject: Production Planning and Control	
CO1	Learn the various concepts associated with the analysis, design, and implementation of
	Production Planning and Control
CO2	Learn analytical constructs to business problem solving
CO3	Understand design and plans to meet business goals under limited resource (e.g., money, people,
	and equipment) restrictions.
CO4	Learn to design organizational systems to recognize (external) opportunities, and to create
	opportunities
Subject: Total Quality Management	
CO1	Develop an understanding on quality management philosophies and frameworks know the
	principles of total quality management and peculiarities of their implementation
CO2	Able to use quality management methods analyzing and solving problems of organization
CO3	Know business excellence models and be able assess organization's performance making
	reference to their criteria
CO4	Learn the applications of quality tools and techniques in both manufacturing and service industry
----------IT----------	
Subject: Computer Networks	
CO1	Understand the concepts of Data Communication and Computer Networks and related issues
CO2	To establish the data communication network among multiple computers
CO3	To understand data transmission technology through topologies
CO4	Managing the data securely from one network to another
Subject: UNIX and Linux Operating System	
CO1	Understand the use of UNIX/Linux system to accomplish technical tasks.
CO2	Learn to monitor system performance and network activities.
CO3	Organize directory structures with appropriate security
CO4	Learn to create and manage simple file processing operations

Subject: Visual Basic Programming	
CO1	Understand use of VBP applications in organization
CO2	Learn Visual Basic's Integrated Development Environment (IDE)
CO3	Demonstrate Designing, creating, building, and debugging Visual Basic applications
CO4	Understand concept of crystal report in business solutions
MBA (BE) First SEM	
Subject: Business Statistics and Research Methodology	
CO1	Basic understanding of Statistics and Research methodology
CO2	Knowledge about Basic concepts of statistics required in Research
CO3	Preparing students for Research work with the knowledge of basic statistical tools
CO4	Develop awareness of contextualizing and findings of Research into practice
Subject: Business finance and Accounts	
CO1	Acquaintance with the basic concept of finance, cost accounting & financial management.
CO2	Preparation & financial analysis of financial statement.
CO3	Analyze financial data & develop critical thinking skills to manage the finance of an
	organization.
CO4	Methodology to present accounting data effectively to make information meaningful &
	knowledgeable.
Subject : Micro Economics	
CO1	Demonstrate knowledge of fundamental microeconomic concepts and principles includiing
	analysis of difference and interrelation between micro and macro economics
CO2	Acquaintance with the necessary analytical tools to analyze decision making by individual
	consumers and firms such as demand, supply, pricing and resource allocation
CO3	Understand the economic basis for business characteristics
CO4	Demonstrate detailed understanding of output and price determination in various market
	structures
Subject: Marketing Management	
CO1	Identify core concepts of marketing & role of marketing in business & society
CO2	Understand the market segmentation, target & positioning strategies
CO3	Develop decisions making abilities related to product development and product life cycle
	process
CO4	Develop understanding regarding decision making & marketing processes and its practical
	application in the business world
Subject: Principles and Practices of Management & Organizational behavior	
CO1	Gain an understanding of functions and responsibilities of manager and develop managerial
	skills to analyze and understand the environment of business.
CO2	Integrate management principles into managerial practices to cope up with changing
	business environment.
CO3	Demonstrate an understanding of key terms, theories concepts and practices within the
	field of OB and apply them to solve issues relating to administration of human resource.
CO4	Understanding human behavior to have efficiency and effectiveness with the total
	development of the organization.
Subject: Computer Applications	
CO1	Knowledge of Computer fundamentals, applications in International Business and Network
	(Unit 1)
CO2	Understanding Database and types of Data models used in DBMS (Unit 2)

CO3	Awareness of Query Language and instructions (Unit 3)
CO4	Knowledge of Information Technology, e-commerce and use of modern technology in
	international business (Unit 5)
Subject: Business Communication	
CO1	Understand the basics of business and corporate communication.
CO2	To develop inter-personal skills that may contribute towards satisfying personal, social and
	professional relationships.
CO3	To learn skills related with personality development as per the requirement of the corporate
	world.
CO4	To understand and use the basic and advanced writing techniques as per the need of
	today's world.
MBA (BE) II SEM	
Subject: Management Information System	
CO1	To understand the applications of information tools in Business operations
CO2	To study the development process of Management Information System
CO3	To learn use of information system to achieve business competitive advantages
CO4	To understand the role of Information System in Managerial Decision Making
Subject: Business Law	
CO1	To provide students with an understanding of certain economics and commercial
	legislations which have direct bearing on functioning of business and companies.
CO2	Develop an understanding about protection of Intellectual property electronic commerce
	and payment mechanisms and foreign investment.
CO3	To provide students with specialized knowledge of law and practices related to
	transportation and insurance of goods.
CO4	To provide students with knowledge of practical and procedural aspects of Direct and
	Indirect taxation laws international taxation issues.
Subject : Operation Research	
CO1	Understand the basic concepts of different advanced models of operations research and
	their applications into business. (Unit-1)
CO2	Apply the models to incorporate rational decision making process in real life situations.
	(Units- 2, 3, 4, 5, 6, 7, 8)
CO3	Formulate organizational problems into OR models for seeking optimal solutions. (Units- 2,
	3, 4, 5, 6, 7, 8)
CO4	Understand & use analytical and numerical techniques to make predictions and decisions.
	(Units- 2, 3, 4, 5, 6, 7, 8)
Subject: International Economics	
CO1	To have conceptual understanding of key concepts of international trade & international
	finance.
CO2	To analyze the link between trade, international finance & economic growth of various
	countries.
CO3	To have understanding and determinants of exchange rates & balance of payments.
CO4	To understand the distributional consequence of trade & issues surrounding globalization.
Subject: Macro Economic Analysis & Policy	
CO1	Relate the basic Economic theory and Principles to current Macro Economic issues
CO2	To get an overview of different theories of money and assess the role and efficacy of the
	fiscal and monetary policy in IS-LM.
CO3	Demonstrate an understanding the basic functioning of national and global economy.

CO4	Develop the understanding of the theories that related to existence of money, explaining
	why it is demanded by individuals and used in trading process.
Subject: Financial Markets & Environment	
CO1	Describe the role and structure of the Financial system and financial markets.
CO2	Explain the key concepts such as primary market, secondary market, money market,
	capital market, bond market.
CO3	Describe the regulatory framework of NBFC and services provided by NBFC's.
CO4	Explain the concept of technology and foreign exchange.
Subject: Financial Management and Corporate Finance	
CO1	To understand the financial management, significance of financial management and
	functions of financial manager.
CO2	To analyze the financial statements by using various financial tools and application of fund
	flow statement and cash flow statement.
CO3	Describe cost of capital, capital budgeting and analysis of the same by applying various
	techniques.
CO4	Analyze the investment decisions by using various financial tools and understanding of
	working capital concept and dividend decisions.
Subject: Marketing research	
CO1:	Discuss the scope and managerial importance of market research and its role in the
	development of international marketing strategies
CO2:	Provide a detailed overview of the stages in the international market research process
CO3:	Plan and undertake qualitative or quantitative Market Research and demonstrate the ability to
	appropriately analyze data to resolve marketing issues.
CO4:	Be able to integrate modern concepts of marketing with fundamentals of research to achieve
	higher customer value.
Subject: Service Marketing	
CO1:	Understand the challenges in service marketing and apply the basic concepts to understand the
	service sector.
CO2:	Appreciate the difference between marketing physical products and intangible services, including
	dealing with the extended services marketing mix.
CO3:	Understand how to integrate various SM Mix elements to develop effective service delivery plan in
	order to achieve sustainable customer value.
CO4:	Explain service blueprinting, the integration of new technologies, and Design service quality
	measurements to build customer loyalty.
MBA (BE) III SEM	
Subject: Econometrics	
CO1:	Demonstrate an understanding of various and generalization of the basic regression model.
CO2:	A broad knowledge of regression analysis relevant for analysis economic data
CO3:	To broaden the knowledge and understanding of methods needed for quantitative analysis
	of micro and macro data relevant to development issues
CO4:	Demonstrate an understanding of estimation frameworks in econometric modeling.
Subject: Human Resource Management	
CO1	To make the students about various concepts, process and practices of HRM in the
	present corporate world
CO2	To enable the students to work as a catalyst who can enhance work relations for
	strengthening the organization.

CO3	To understand the need and usage of T &D for individual and organizational development.
CO4	To understand the causes for grievances and resolving them in the best possible manner.
Subject : Strategic Management	
CO1	Knowledge of various functional areas and other aspects of management
CO2	Understanding for the concept and tools that support strategic management in
	organizations
CO3	Ability to apply the concepts to analyze strategic issues in organization and to develop
	strategies for implementation.
CO4	Specific knowledge of frameworks and concepts related to strategy formation, strategic
	change and strategic innovation.
Subject: Business Taxation	
CO1	To acquaint the students with basic principles underlying the provisions of direct and indirect
	tax laws and to develop a broad understanding of the tax laws and accepted tax practices.
CO2	To give an understanding of the relevant provisions relating to Income Tax, CST Act, Service
	Tax and VAT.
CO3	To introduce practical aspects of tax planning as an important managerial decision-making
	process
CO4	Expose the students to the real life situations involving taxation to equip them with
	techniques for taking tax-sensitive decisions
Subject: Financial Products & Services	
CO1	Describe the role and structure of the financial products and services
CO2	Explain key concepts such as financial claim, financial intermediation and financial market
CO3	Explain the concept of securitization, mergers and acquisition
CO4	Explain the concepts and functions of different types of financial services
Subject: Insurance and Bank Management	
CO1	To create awareness about the applicability of the concepts, techniques and processes of
	marketing in rural context
CO2	Explore the various facets of industrial & rural marketing and develop an insight regarding
	different concepts and basic practices in these areas.
CO3	Understand rural marketing environment and the emerging challenges in it.
CO4	To acquaint the students with the appropriate concepts and techniques in the area of rural
	marketing
Subject: Security Analysis & Portfolio Management	
CO1	Describe the basic characteristics of investments & its types.
CO2	Understand the risk and return concept & valuation of securities.
CO3	Analyze securities by using various tools & techniques.
CO4	Apply theories and practices of portfolio management and create optimal portfolios using
	various portfolio optimization techniques.
Subject: : Advertising and Brand Management	
CO1	Identify and respond to clients' advertising and marketing communications objectives by
	applying principles of communications
CO2	Relate theoretical aspects of advertising on practical situation
CO3	Help students understand & develop unique promotional and branding strategies
CO4	Help students understand & design advertising campaign and branding plans
Subject: Industrial & Rural Marketing	
CO1	To create awareness about the applicability of the concepts, techniques and processes of
	marketing in rural context

CO2	Explore the various facets of industrial & rural marketing and develop an insight regarding different
	concepts and basic practices in these areas.
CO3	Understand rural marketing environment and the emerging challenges in it.
CO4	To acquaint the students with the appropriate concepts and techniques in the area of rural
	marketing
Subject: International Marketing	
CO1	Apply knowledge paradigms in international marketing to gain insights into
	similarities/differences across cross-cultural markets and their marketing implications
CO2	Gain an understanding of international marketing effort related to market entry and marketing mix
	strategies
CO3	To gain a solid understanding of the theoretical and conceptual principles of International
	marketing
CO4	Develop International marketing plans
Subject: Sales and Distribution Management	
CO1	Identify and respond to clients' selling and distribution needs
CO2	Relate theoretical aspects of sales and distribution theories to practical aspects
CO3	Develop unique sales and distribution strategies
CO4	Design effective distribution channels
MBA (BE) IV SEM	
Subject: Consumer Behavior	
CO1	Understand the consumer and its behavior in order to frame consumer oriented marketing
	strategies
CO2	Discussing the principal factors that influence consumers as individuals and decision
	makers with an application to the buying decision process.
CO3	Analyze the trends in consumer behavior, and apply them to the marketing of an actual
	product or service.
CO4	Understand consumer behavior concepts to develop better marketing programs and
	strategies to influence those behaviors.
Subject: Business Ethics And Environment	
CO1	Analyze the environment of a business from the legal and regulatory, macro-economic ,
	cultural, political, technological and natural perspectives.
CO2	Conduct an in-depth analysis of a specific component of the business environment and
	relate it to your own organization.
CO3	Critically assess the business environment of an organization using selected strategic
	tools.
CO4	To provide a sensitive understanding of ethical principles of corporate governance and the
	nature of their enforcement.
Subject : Business Forecasting & Planning Techniques	
CO1	Basic understanding of the relationship between the two terms Forecasting & Planning
CO2	Understanding of basic methodologies of business forecasting
CO3	Awareness of basic applications of forecasting in decision making for a business
CO4	Optimum utilization of forecasting for the purpose of planning in an organization
Subject: Commodity, Derivative & Price Risk Management	
CO1	Describe the basic characteristics of derivatives market
CO2	Describe the uses of derivatives by hedgers, speculators and arbitrageurs
CO3	Define and describe the traded and over-the-counter derivative contracts on different

	underlying assets
CO4	Describe and use the different models used for pricing derivatives and used of various
	strategies
Subject: Supply Chain Management & Documentation	
CO1	Effectively use concepts of supply chain management and quantitative and qualitative
	methods to make appropriate decisions in both new and unfamiliar
CO2	Gaining a command of the key factors in new business model based on E-Commerce and
	an insight on how it affects the logistic system.
CO3	The subjects focuses on relatively long term decisions involving the investment in
	productive resources configuration of process, product design and development of
	partnership with supplier and channel of distribution.
CO4	The course will enhance ability to use analytical tools and concepts as well as better
	understanding of the major strategic issues and trade off in supply chain.
MBA (IB) I SEM	
Subject: International Trade Operations and WTO	
CO1	To understand the basics of international trade operation.
CO2	To learn the skills related to international trade operation
CO3	To develop the insight regarding Regional economic Integration.
CO4	To know the working of world trade organization.
Subject: Business Communication	
CO1	Understand the basics of Business communication and corporate communication.
CO2	To develop inter-personal skills that may contribute towards satisfying personal, social and
	professional relationships.
CO3	To learn skills related to personality development as per the requirement of the corporate
	world
CO4	To understand and use the basic and advanced writing techniques as per the need of
	today's world
Subject : Foreign Language – German (Optional)	
CO1	Enable students to understand the culture and history of German.
CO2	Create ability to read and write German language.
CO3	Enhance and enrich students to deal with Verbs, Nouns and Prepositions of German
	language.
CO4	Enrich students to negotiate with a German buyer/ supplier.
Subject: International Economics	
CO1	To have conceptual understanding of key concepts of international trade & international
	finance
CO2	To analyze the link between trade, international finance & economic growth of various
	countries
CO3	To assess the determinants of exchange rates & balance of payments
CO4	To understand the distributional consequence of trade & issues surrounding globalization
Subject: Managerial Economics	
CO1	Analyze and apply basic economic principles, policies, theories, models and analytical
	methods in managerial economics
CO2	Analyze the demand and supply conditions and assess the position of a company
CO3	Design Competitive strategies, including costing, pricing, product differentiation and market
	environment according to the nature of product and structure of the market.

CO4	To analyze the circular flow and identify the causes of prosperity, growth, economic
	changes over time with mechanics of fiscal and monetary policies.
Subject: Marketing Management	
CO1	Identify core concepts of marketing & role of marketing in business & society
CO2	Understand the market segmentation, target & positioning strategies
CO3	Develop decisions making abilities related to product development and product life cycle
	process
CO4	Develop understanding regarding decision making & marketing processes and its practical
	application in the business world
Subject: Principles and Practices of Management & Organizational behavior	
CO1	Gain an understanding of functions & responsibilities of manager and develop managerial
	skills to analyze & understand the environment of business.
CO2	Integrate management principles into management practices to cope up with changing
	business environment.
CO3	Demonstrate an understanding of key terms, theories concept and practices within the
	field of OB and apply them to solve issues relating to administration of human resource.
CO4	Understanding the human behavior to have efficiency & effectiveness with the total
	development of organization.
Subject: Quantitative Techniques & Statistical Methods	
CO1	Understand the basic concepts of different advanced models of operations research,
	statistics and data analysis. Also understand their applications into international business.
CO2	Apply the models to incorporate rational decision making process in real life situations.
CO3	Formulate organizational problems into OR models for seeking optimal solutions
CO4	Understand & use analytical and numerical techniques to make predictions and
	decisions.
MBA (IB) II SEM	
Subject: Commodity, Derivatives & Price Risk Management	
CO1	Describe the basic characteristics of derivatives market
CO2	Describe the uses of derivatives by hedgers, speculators and arbitrageurs
CO3	Define and describe the traded and over-the-counter derivative contracts on different
	underlying assets
CO4	Describe and use the different models used for pricing derivatives and use of various
	strategies
Subject: Foreign Trade Policy, Procedures and Documentation	
CO1	To know the basics of Export and Import
CO2	To develop the skills which are required to start the export business from India.
CO3	To learn the export documentation formalities in India
CO4	To understand the custom and quality control formalities and schemes in foreign trade
	policy 2015-2020.
Subject : Foreign Language – German (Optional)	
CO1	Student is able to use adjectives as per the requirement of sentence.
CO2	Enable students to read and write in past perfect tense.
CO3	Enrich students with business vocabulary which helps in writing official business letters.
CO4	Enhance the learning and knowledge of analyzing case studies.
Subject: International Marketing	
CO1	Apply knowledge paradigms in international marketing to gain insights into

	similarities/differences across cross-cultural markets and their marketing implications
CO2	Gain an understanding of international marketing effort related to market entry and
	marketing mix strategies
CO3	To gain a solid understanding of the theoretical and conceptual principles of International
	marketing
CO4	Develop International marketing plans
Subject: International Marketing Research and Consumer Behavior	
CO1	Discuss the scope and managerial importance of market research and its role in the
	development of international marketing strategies
CO2	Provide a detailed overview of the stages in the international market research process.
CO3	Discussing the principal factors that influence consumers as individuals and decision
	makers with an application to the buying decision process.
CO4	Understand consumer behavior theories to develop better marketing programs and
	strategies to influence those behaviors.
Subject: Business finance and Accounts	
CO1	Acquaintance with the basic concept of finance, cost accounting & financial management.
CO2	Preparation & financial analysis of financial statement.
CO3	Analyze financial data & develop critical thinking skills to manage the finance of an
	organization.
CO4	Methodology to present accounting data effectively to make information meaningful &
	knowledgeable.
Subject: Human Resource Management	
CO1	To make the students aware of various concepts, process and practices of HRM in the
	present corporate world
CO2	To enable the students to work as a catalyst who can enhance work relations for
	strengthening the organization.
CO3	To understand the need and usage of Training & Development for individual and
	organizational development.
CO4	To understand the causes for grievances and resolving them in the best possible manner.
Subject: Computer Applications	
CO1	Knowledge of Computer fundamentals, applications in International Business and Network
	(unit-1)
CO2	Understanding Database and types of Data models used in DBMS (Unit 2)
CO3	Awareness of Query Language and instructions (Unit 3)
CO4	Knowledge of Information Technology, e-commerce and use of modern technology in
	international business (Unit 5)
MBA (IB) III SEM	
Subject: Import Management	
CO1	Selection of sustainable global import markets involvement of government bodies involved
	and obstacles involved in the import business.
CO2	Develop analytical skills for identifying and selection of import commodity and finalization
	of mode of settlement of payment.
CO3	Develop an understanding towards import procedures and documentation.
CO4	Identify source of information on import restrictions and documentation associate with
	international supplying in order to facilitate import compliance for the importing
	organizations

Subject: International Business Finance	
CO1	Understanding the structure of international financial system.
CO2	To make students aware of the changes in foreign currency exchange market and
	development in international financial system.
CO3	Identify opportunities for arbitrage and discuss methods to exploit these opportunities
CO4	Evaluate cross-border investment opportunities, and describe a multinational firm's
	decision making process for long term capital budgeting, short term cash flow
	management and the management of foreign operations.
Subject : Management Information System	
CO1	To understand the applications of information tools in Business operations
CO2	To study the development process of Management Information System
CO3	To learn use of information system to achieve business competitive advantages
CO4	To understand the role of Information System in Managerial Decision Making
Subject: Service Marketing	
CO1	Understand the challenges in service marketing and apply the basic concepts to
	understand the service sector.
CO2	Appreciate the difference between marketing physical products and intangible services,
	including dealing with the extended services marketing mix.
CO3	Understand how to integrate various SM Mix elements to develop effective service delivery
	plan in order to achieve sustainable customer value.
CO4	Explain service blueprinting, the integration of new technologies, and Design service quality
	measurements to build customer loyalty.
Subject: Strategic Management	
CO1	Knowledge of various functional areas & other aspects of management.
CO2	Understanding of the concepts & tools that support strategic management in organizations
	is developed.
CO3	Ability to apply the concept and analyze strategic issues in organizations and to develop
	strategies for implementation.
CO4	Specific knowledge of frameworks and concepts related to strategy formation, strategic
	change and strategic innovation.
Subject: International Trade Logistics and Supply Chain Management	
CO1	
	The course will expose students to the basic concept of supply chain management and
	the various challenges involved in managing international supply chain.
CO2	Gaining command of the key factors in new business models based on e-commerce and
	an insight on how it affects the logistic system.
CO3	Distinguish the forces shaping international logistics in global market.
CO4	The course will enhance student's ability to use analytical tools & concept as well as
	better understand the major strategic issues and trade off in international business.
Subject: Select Markets & Thrust Products	
CO1	To understand the international Market Potential for various commodities
CO2	To get the knowledge of commodities to be kept at thrust for import and export
CO3	To better understand the thrust product for thrust market
CO4	To identify the key determinants of thrust product as well as thrust market.

MBA (IB) IV SEM	
Subject: Comparative International Management	
CO1	Understand the concept of Comparative Management in economic growth with different
	parameters.
CO2	To gain knowledge regarding banking scenario in managing foreign customers & Foreign
	policies, learning about trade agreements.
CO3	Explore the various Cultural & Environment factors in International Market.
CO4	Understand the role of Corporate Governance in developed & developing countries and
	International Strategic Management.
Subject: International Business Law	
CO1	Develop an understanding of various domestic & international laws together & the impact of
	these laws on international business practices.
CO2	Develop an understanding of contractual laws & relation that applies to international
	transactions.
CO3	Develop an understanding about protection of IP, e-commerce and international payment
	mechanisms, foreign investments & international taxation issues.
CO4	Develops the skill of understanding & applying international treaties & conventions,
	statutes and case material in approaching legal issues relating to international business.
Subject : Business Ethics and Environment	
CO1	Analyze the environment of a business from the legal & regulatory, macroeconomic,
	cultural, political, technological & natural perspectives
CO2	Conduct an In-depth analysis of a specific component of business environment & relate it
	to your own organization.
CO3	Critically assess the business environment of an organization using selected strategic
	tools.
CO4	To provide a sensitive understanding of ethical principles of corporate governance and the
	nature of their enforcement.
Subject: Overseas Project Management	
CO1	Basic understanding of Project Management in relevance to Globalization
CO2	Knowledge about basic working while acquiring overseas projects
CO3	Awareness of Financial working in Global context
CO4	Establishing connect between professionals, organizations and experts worldwide.
MBA (TM) I SEM	
Subject: Accounting for Managers	
CO1	To develop the acquaintance of basic concept of accounting and financial management
	among the students.
CO2	To develop in students decision making skills related to financial position of the company
CO3	To thrive an insight to understanding and analyzing financial statements of the companies.
CO4	To imbibe the knowledge of solving management and cost related problems after taking
	into account of quantitative and qualitative factors.
Subject: Business Communication	
CO1	To provide students with the skills and knowledge of communication in the business
	environment.
CO2	To acquire the basics of interpersonal communication, corporate communication and soft
	skills.
CO3	To enhance the ability to understand others along with the personality development as per

	the corporate world requirement.
CO4	To develop knowledge and skills to communicate professionally on various levels including
	writing; speaking; giving presentations and interpersonal skills.
Subject : Computer Fundamentals	
CO1	Knowledge of Computer fundamentals and its application in hospitality industry
CO2	Understanding Database, Data processing and its advantages
CO3	Knowledge about computer networks and hardware used in computer networks
CO4	Understand the use of internet and applications in hospitality industry
Subject: Marketing for travel & tourism	
CO1	Identify core concepts of marketing & the role of marketing in business & society
CO2	Understand the market segmentation, target & positioning strategies
CO3	Develop decisions making abilities related to tourism marketing and product life cycle
	process
CO4	Develop an understanding regarding decision making & marketing processes and its
	practical application.
Subject: Organizational Behaviour	
CO1	Understand the key concepts of organizational behavior.
CO2	Understand human behaviour in organizations at cross cultural level to improve managerial
	effectiveness.
CO3	Understand group behavior in organizations, including power and politics and conflict.
CO4	Develop a basic understanding of individual behaviour.
Subject: Principles And Practices Of Management	
CO1	To help the students gain understanding of the functions and responsibilities of manager
CO2	Discuss the evolution of management and behavioral science contribution.
CO3	Understand the basic functions of Management – Planning, organizing, directing and
	controlling.
CO4	Understand the complexities associated with management of human resources in the
	organizations and integrate the learning in handling these complexities
Subject: Travel & Tourism Industry	
CO1	To understand the historical development of travel
CO2	To learn the growth and development of modern tourism
CO3	To know the factors affecting the growth of tourism
CO4	To learn the structure and role of different tourism organization
MBA (TM) II SEM	
Subject: Business statistics	
CO1	To enhance the knowledge of statistics in business management
CO2	Identify statistical tools needed to solve various business problems.
CO3	Students will be able to demonstrate understanding of statistical thinking and data
	analysis techniques for decision-making under uncertainty.
CO4	Develop the skill of performing the calculations needed for various methods of analysis.
Subject: Cargo And Airline Management	
CO1	Understand the basic concepts and recent developments cargo management along with
	the documentations requires
CO2	Evaluate the different modes of transportation and preparation of INCO terms along with

	various scheme
CO3	Understand the basic concepts and recent developments airline management and
	regulatory authorities
CO4	Develop skills related to the aircrafts and various abbreviations and terminology of Airline
	management
Subject : Financial Management	
CO1	To Understand & describe the concept of Financial Management, understanding long term
	& short term sources of finance and explaining basic financial decisions & its relationships
	with other disciplines.
CO2	To analyze the requirement of working capital in business by utilizing the concept of
	receivables management, cash management & inventory management
CO3	Describe , Leverage & Capital structure theories and analysis of the same by applying
	various techniques
CO4	Analyze the investment decisions by using various financial tools and understanding of
	Cost of capital & Capital Budgeting
Subject: Travel Agency and Tour Operations Management	
CO1	Understand the significance of travel agency and tour operation business;
CO2	Know the current trends and practices in the tourism and travel trade sector
CO3	Illustrating the Travel accounting procedures towards the tourist agencies and their
	functions for developing managerial skills
CO4	Develop adequate knowledge and skills applicable to travel industry.
Subject: Tourism Product in India	
CO1	To familiarize students about the conceptual understanding of the nature and scope of
	tourism products.
CO2	To create awareness among the student about the various cultural, historical and
	architectural heritage of India which includes an in-depth understanding about the culture,
	traditions, and customs of India.
CO3	To create awareness among the student about the natural heritage of India and various
	wildlife sanctuaries and national parks of India.
CO4	To help students to study vast Tourist resources of India and widen their view towards travel
	and tourism.
	IPS ACADEMY, -INDORE
	Course Outcomes (CO)
MBA (TM) III SEM	
Subject: Consumer Behavior	
CO1	Understand behavioral dynamics of consumers and formulate appropriate strategies to
	ensure highest satisfaction.
CO2	Understand the process of forming positive consumer behavior.
CO3	Learn various consumer behavior models and its applicability in today's business world.
CO4	Understand consumer behavior mechanics of different categories.
Subject: Hotel Operations & Management	
CO1	To understand specific situations and their impact upon hotel operations and hotel sector.
CO2	To evaluate the service encounter and special characteristics of hotel industry.
CO3	To understand the interdependencies and necessary skills for successful hotel operations.
CO4	To understand the different structures within the hotel industry such as organizational
	structures.
Subject : International ticketing	
CO1	To understand the time calculations and the concept of standard and daylight saving time.

CO2	Familiarization with air tariff and currency regulation, general rules.
CO3	Familiarization with passport viva currency, health regulation, different types of credit cards.
CO4	Understanding of fare construction and mileage principles
Subject: Information Technology For Tm	
CO1	Basic understanding of Computer fundamentals
CO2	Knowledge about basic Computer peripherals and hardware systems
CO3	Awareness of computer applications software and use of MS-Office
CO4	Basic concept knowledge of e-commerce, its applications and stock trading in business
Subject: Marketing Strategies	
CO1	To identify and demonstrate the dynamic nature of the environment in which marketing
	decisions are taken and the implications of marketing strategy determination and
	implementation.
CO2	To analyze the relevance of marketing concepts and theories in evaluating the impact of
	environmental changes on marketing planning, strategies and practices.
CO3	To identify the role of advertising, sales promotion, public relations, personal selling, and
	direct marketing in the promotion mix; compare and contrast integrated marketing
	communications with a non-integrated approach to the promotional mix.
CO4	To Illustrate how the international trade system, economic, political-legal, and cultural
	environments in a foreign country affect a company's international marketing decisions.
	IPS ACADEMY, -INDORE
	Course Outcomes (CO)
Subject: Research Methodology	
CO1	Identify, explain, and apply the basic concepts of research, such as variables,
	operationalization, sampling, reliability, and validity.
CO2	Able to Identify and explain the difference between quantitative, qualitative, and mixed
	methods research and what types of research questions can be answered with each
	method
CO3	Students will be able to distinguish a purpose statement, a research question or
	hypothesis and analyze the appropriate method and variables needed for the given research
	problem.
CO4	Can construct a coherent research proposal that includes an abstract, introduction,
	literature review, research questions, ethical considerations, and methodology.
MBA (TM) IV SEM	
Subject: Economics For Tourism	
CO1	To conduct a detailed study on concepts, working, market for and basic problems of
	tourism economy and its hindering role in development in the Indian Economy.
CO2	Demand and supply Analysis in terms of elasticity and marginal utility of tourism with
	reference to determinants of tourism demand and supply. Price determination of different
	market structures.
CO3	Economic contribution and performance of Tourism including the direct and indirect impact
	of different models and multipliers in employment and income. Foreign Direct investment in
	Tourism including linkages and leakages.
CO4	Importance of demand forecasting in tourism along with detailed studies of principle
	sectors of Indian economy with special reference to tourism
Subject: Event Management	
CO1	To enhance event planning skills of students and create awareness related to budget and
	legal issues related to organizing events
CO2	To enable understanding related to nature of business tourism, tourism industry, event

	technology and conferencing.
CO3	To enhance understanding of Event characteristics, limitations and major players in event
	business
CO4	To learn to manage risk and security along with emergency planning, incident reporting and
	procedures involved.
Subject: Entrepreneurship	
CO1	To acquire in-depth knowledge about Entrepreneurship process and it's Development.
CO2	Application of Theoretical concepts into practice while facing business problems.
CO3	Contributes in Developing Reasoning and Analytical ability to foster Decision Making.
CO4	Nurturing Entrepreneurial skills and Leadership Abilities.
Subject: Foreign Exchange Management	
CO1	Knowledge of theories of foreign exchange and international Forex markets, risks and
	reserves.
CO2	Structure, organization and administration of foreign exchange regulatory Bodies.
CO3	Organization of Institutional bodies and sources involved in foreign exchange finance.
CO4	Insights of balance of payment issues, exchange risk management and currency
	convertibility.
Subject: Human Resource Management in Tourism	
CO1	To help students develop an insight regarding various Human Resource Practices &
	concepts in Organizations with special reference to the Tourism Industry.
CO2	To demonstrate the basic understanding of the methods and mechanics of human
	resources utilization in tourism sector
CO3	To help students refine decision making skills so that they can help organizations
	effectively conduct personnel management and employee relations.
CO4	To appreciate the contribution of human resources practices in success tourism business.
Subject: Service Marketing	
CO1	Understand the application of basic service marketing concepts and 7 P's.
CO2	Understand the process involve in marketing of services and develop appropriate objectives
	and strategies.
CO3	Develop the holistic service marketing plans and measure the services quality and
	productivity.
CO4	Able to understand the unique challenges involved in marketing of service and overcome
	from the challenges through creative thinking and evaluation available information.
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	Course Outcomes (CO)
BBA I SEM	
Subject: Basic Accounting	
CO1	**To acquaint student with the basic accounting concepts**
CO2	**To impart effective methodology to record business operation of an entity**
CO3	**Demonstrate critical thinking skill to analyze financial statements of an enterprise**
CO4	**Develop the ability to communicate accounting data effectively**
Subject: Economics I	
CO1	To understand the economic concepts and importance of macro-economic approaches in
	managerial decision making
CO2	Understand theories and principles in macroeconomics including national income,
	accounting, models of output determination, models of aggregate demand and supply, the
	money market, fiscal policy and monetary policy

CO3	To utilize a simple contemporary economic model such as the aggregate
	supply/aggregate demand model and describe the interrelationships among prices, income
	and interest rates as they affect consumption, saving and investment.
CO4	Students will be able to describe the contemporary banking and monetary system, and
	analyze the role of money, credit
Subject : Fundamentals of Management	
CO1	Understanding of the basic concepts of management and functions and responsibilities of
	the manager
CO2	Learn about the tools and techniques of planning and organizational theories.
CO3	Understanding of traits, dimensions, and styles of effective leaders and importance of
	employee motivation in an organization
CO4	Learn about different types of control means in a business setting and why it is needed
Subject: Information Technology	
CO1	Understanding the basic concept and features of computer system, development of
	Information Technologies in Business Organizations
CO2	To gain knowledge about various software tools and their applications
CO3	Understand the role of computer levels languages, operating system
CO4	Understand to deal with peripheral devices between Hardware and Software, also to gain
	knowledge about data base management system in organized manner.
Subject: Managerial Skills	
CO1	**Understanding of basic managerial and personal skills and their implementation**
CO2	Understanding of how to apply emotional intelligence techniques to self-development.
CO3	**Attainment of organizational outcomes through effective goal setting,**
	delegation, creative problem solving and decision making
CO4	Empowerment and delegation through winning presentations and conducting meetings.
BBA II SEM	
Subject: English	
CO1	To understand the use of English language
CO2	To learn the basic grammar and enhance writing skills
CO3	Awareness of English grammar for the communication purpose in a business environment
CO4	Helps in managerial decision making, and understanding of global business environment.
Subject: Economics II	
CO1	Demonstrate knowledge of basic economic concepts and principles
CO2	Acquaintance with the necessary analytical tools to analyzesdecision makingby individual
	firms such as demand , supply , pricing and resource allocation
CO3	To learn how cost and revenue curves are analysed and how they vary inshort and long run.
CO4	Demonstrate pure understanding of output price determination in various market structures
	and also to outline the role of comparative advantage in exchange. Describe the role of
	international trade and finance in domestic economic activity
Subject : Human Resource Management	
CO1	To make students aware of the various concepts, process and practices of HRM in the
	present business
CO2	To enable the students to work as a catalyst who can enhance cordial work relations in an
	organization.
CO3	To understand the concept of work-life balance along with their career advancement.
CO4	To develop a holistic approach towards culturally diverse employees
Subject: Business Communication	
CO1	To generate the understanding of the basics of Business communication

CO2	Develop communication skills and improve listening skill , observational skills, and
	problem solving capabilities.
CO3	Gain insight into your own interpersonal communication and relationships
CO4	Understand and demonstrate the use of basic and advanced proper writing techniques
Subject: Financial Management	
CO1	To understand the concepts & functions of Financial Management and getting acquainted
	with various financial decisions.
CO2	To develop understanding of various financial parameters through analyzing financial
	statements. To develop know how of the preparation of Cash flow statement
CO3	Developing the conceptual understanding of leverages & their computation.
CO4	Evaluating various investment proposals for decision making and describe the concepts
	& methods of Working Capital management
Subject: Management Information System	
CO1	To understand the applications of information tools in Business operations
CO2	To study the development process of Management Information System
CO3	To learn use of information system to achieve business competitive advantages and data
	processing
CO4	To understand system design and the role of Information System in Managerial Decision
	Making
BBA III SEM	
Subject: Business Costing	
CO1	Acquire the concepts & functions of Cost Accounting and to have an overview of cost
	accounting standards.
CO2	Students will get acquainted with the various elements of cost including Material cost,
	Labor Costs, direct expenses and overheads.
CO3	To develop the skills to learn the concepts of various costing methods in business costing.
CO4	To describe various cost accounting systems
Subject: Business Environment	
CO1	Analyze the environment of a business from the legal & regulatory, macroeconomic,
	cultural, political, technological and natural perspectives.
CO2	Familiarize the students with the business environment prevailing in India and in the world.
CO3	Assess the impact of socio cultural environment on Business.
CO4	Provide the understanding of Public sector enterprises in India
Subject : Business Statistics	
CO1	To prepare students for lifelong learning and successful careers using their statistical skills
	and application in business problems
CO2	To develop decision making skills pertinent to the practice of statistics, including the
	students' abilities to formulate problems, to think creatively, and to synthesize information
CO3	To train students thoroughly in methods of analysis and computation, including the
	computational skills appropriate for statistical tool based data analysis
CO4	To teach students different forms of data and also help them in evaluating different concepts
	of probability and applying them
Subject: Marketing Management	
CO1	Understand the role and functions of marketing within a range of organizations
CO2	Capture market insights from the environment
CO3	Understand distribution networks and implementation of marketing strategies accordingly.
CO4	Apply sustainable marketing practices into business

Subject: Operations Management	
CO1	To understand the core features of operations and production management functions at the
	strategic and operational level both to improve the working of organization.
CO2	To understand and describe the boundaries of operation management and recognize its
	interface with other functional area within the organization.
CO3	To understand analysis of operational situations on the basis of qualitative and quantitative
	both level. And also able to evaluate production management strategies critically for the
	application of analytical models, frameworks, tools and techniques relevant to production
CO4	To understand the quality management and development of skills needed for the effective
	operations management
Subject: Organization Behavior	
CO1	Recognize, explain, predict and manage individual behaviour in organizations
CO2	Employ theories and skills of coordinating and motivating teammates to achieve the best
	results.
CO3	Identify and develop employees' leadership potential to its fullest.
CO4	Apply inter-personal communication skills to diagnose and analyse organizational and
	behavioural problems and recommend appropriate courses of action
BBA IV SEM	
	Course Outcomes (CO)
Subject: Entrepreneurship	
CO1	Understanding the basics of Entrepreneurship and real life issues therein.
CO2	Application of Theoretical concepts into practice while facing business problems
CO3	Contributes in Developing Reasoning and Analytical ability to foster Decision Making.
CO4	Nurturing Entrepreneur Skills and Leadership Abilities.
Subject: Indian Legal System for Business	
CO1	Understanding the nature and sources of law, and the governing legal and judicial system.
CO2	Apply basic legal knowledge to business contracts.
CO3	Awareness of different latest provisions of law.
CO4	Application of legal theory to determine the legal issues in assigned cases.
Subject : International Business	
CO1	Analyze the scenario of international business and India's position in international business
	in global market.
CO2	Familiarize the students with methods of entry into international market.
CO3	Assess the role of International Institutions in International Business.
CO4	Provide the understanding of Export and Import Policy and Export documentation in India
Subject: Management accounting	
CO1	To acquaint student with the basic Management accounting concepts, tools and
	techniques for decision making.
CO2	Develop critical thinking skills to analyze planning and budgetary control methods
CO3	Demonstrate critical thinking skill to analyze various financial variances.
CO4	Develop the ability to use marginal costing for decision making
Subject: Operation Research	
CO1	To Understand the concepts and importance of Operations Research
CO2	To analyze real life system with limited constraints and depict it in a model form.
CO3	To develop the skills of formulating mathematical models in day to day business operations
CO4	To develop skills in decision making by applying Operations Research theories in real life
Subject: Supply Chain Management	
CO1	Understand the structure of supply chains and the different ways through which supply

	chains can become competitive in the market
CO2	Learn the methods used by organizations to procure the property, facilities, equipment,
	materials and services required to operate.
CO3	Design a procurement system that effectively employs demand forecasting, demand
	management and inventory management techniques.
CO4	To provide an insight into the role of Internet Technologies in supply chain operations Utilize
	and select appropriate web-based technology
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	IPS ACADEMY, -INDORE
	Course Outcomes (CO)
BBA V SEM	
Subject: Customer Relationship Management	
CO1	Analyze relationship economics from the point of view of the customer and the
	organization
CO2	Provide students with the knowledge of the fundamental aspects of developing and
	managing customer relationships..
CO3	Introduce students to the tools commonly used for developing and implementing CRM
	programs..
CO4	Understand different CRM strategy in current business environment
Subject: Indian Financial Systems	
CO1	Explain the Basic function of Financial system and describe the basic of financial
	Institutional & Market are working for development of Indian Economy.
CO2	Explain the understanding of operation of Financial Market as well as Financial Institutions
	and apply the function of SEBI in Indian Capital Market.
CO3	Analyze the use of Leasing & Hire Purchase and Forfeiting in Corporate Financing.
CO4	Explain the uses of Credit Rating by Investors for Investment in Indian Financial Market
Subject : Project Management	
CO1	Learn and become familiar with advanced terminology, concepts, and insights of project
	and develop the mindset, key skills and processes for project management.
CO2	To apply key project management system techniques and formulate feasibility analysis,
	identify and solve problems when considering project alternatives and making the correct
	choice
CO3	Apply techniques to accurately define project scope, develop plans and control measures
	to manage projects effectively
CO4	Integrate the Project Management functions to assist in delivering successful projects
Subject: Research Methodology	
CO1	Understand some basic concepts of research and its methodologies
CO2	**Organize and conduct research (advanced project) in a more appropriate manner**
CO3	Develop understanding of quantitative research and qualitative research statistical tools .
CO4	Understand the steps of conducting the business research and writing the research report
Subject: Banking and Insurance	
CO1	Critically understand the concept, principals of risk and risk management tools such as life
	and general insurance
CO2	Understand the various products of life as well as general insurance and its implication
CO3	Understand the banking industry in India and its importance towards the sustainable
	economic development and recent developments in banking industry
CO4	Analyze the various types of risk faced by banks and implication of Basel framework to

	manage the same
Subject: Working Capital Management	
CO1	Describe & understand the concepts, needs, determinants & estimation of Working capital
	and of working capital.
CO2	Evaluate a company's management of accounts receivable & get acquainted with factoring
	process.
CO3	Describe the concept of Inventory, need to hold inventories and analysis of inventory
	management techniques.
CO4	To understand the concept of cash management & working capital finance
Subject: Human Resource Development	
CO1	Demonstrate an understanding of key terms and concepts of HRD
CO2	Demonstrate Roles and Competencies of HRD professionals for employee development
	and problem solving in the areas of HRD.
CO3	Analyse the key issues related to the development of human resource such as mentoring,
	counselling, work life balance, career planning and training.
CO4	Describe the meaning of terminology and tools used in HRD Audit and it's use in business
	improvement
Subject: Industrial Relation	
CO1	The students are to be acquainted with industrial relations framework in our country
CO2	The importance of the maintenance of industrial peace and efforts to reduce the incidence
	of strike and lockout.
CO3	To critically examine the provisions in the various industrial Disputes Act, for the prevention
	and settlement of industrial disputes.
CO4	Learn the underlying disciplinary enquiry for misconduct to understand in view of acquaints
	misconduct and procedure to be followed before imposing punishment for misconduct
	alleged and established.
Subject: Advertising and Brand Management	
CO1	Understand various concepts of advertising and promotion to increase business
	opportunities
CO2	Understand consumer behavior to design advertising, product and overall business
	strategies.
CO3	Apply knowledge of business management studies for brand building in order to gain
	market acceptance and competitiveness.
CO4	Understand business strategies related to IT, Advertising, Decision Making for efficiently
	positioning the brand.
Subject: Sales and Distribution Management	
CO1	Identify and respond to Personal selling and Environment
CO2	Relate theoretical aspects of sales and distribution theories to Dynamic Sales
	management .
CO3	Develop unique sales Promotion Strategies.
CO4	Design effective distribution channels and usage of IT.
BBA VI SEM	
Subject: Indian Ethos in Management	
CO1	To acquaint the students with the concept of Business ethics and Corporate Governance
	along with its relevance to managerial decision making.
CO2	Application of several important concepts and frameworks for moral reasoning to complex
	ethical issues in different business areas.

CO3	To develop an understanding of Indian Ethos and it's universal applicability in human
	behaviour and management practices or further enrichment of holistic leadership
	principles and practices.
CO4	Provide insights to participants for developing leadership that is socially, environmentally
	and culturally responsible
Subject: Retail Management	
CO1	Understand the basic concepts of retail management and examine latest trends in retailing.
CO2	Evaluate the retail environment in order to develop appropriate objectives and strategies.
CO3	Understand retail customer for executing successful marketing mix strategies .
CO4	Evaluate the impact of rules and regulations and ethics in retail management
Subject : Strategic Management	
CO1	Develop an insight and understanding of basic concepts and terminology used in Strategic
	Planning and Strategic Management Process.
CO2	Gain knowledge about the tools and techniques used for strategic analysis and understand
	various types of business strategies.
CO3	Understand the concept and process of Environment Analysis and Appraisal and apprehend
	the strategies Adopted by organizations in response to environmental change.
CO4	Gain knowledge about the process of Strategy formulation, implementation, evaluation and
	control
Subject: Total Quality Management	
CO1	Develop an understanding on quality management philosophies and frameworks
CO2	Develop in-depth knowledge on various tools and techniques of quality management
CO3	Learn the applications of quality tools and techniques in both manufacturing and service
	industry
CO4	Develop analytical skills for investigating and analyzing quality management issues in the
	industry and suggest implement able solutions to those
Subject: International Finance	
CO1	Explain the organisation and institutional details of foreign exchange and international
	money markets. And to describe and apply orthodox theories of exchange and international
	trade.
CO2	Explain and apply insights of balance of payment issues and how it is crucial in deciding
	the foreign currency exchange rates.
CO3	Analyse the use of ADRs, GDRs, issue of International Commercial papers and operations
	of euro currencies.
CO4	Explain the functions of international monetary fund and its exchange rate policy
	implementations
Subject: Merchant Banking and Financial Services	
CO1	Critically analyze and understand the Role of Merchant Banker in financial sector.
CO2	Explain and apply insights of SEBI regulations for Depository operations, Securitizations
	and Brokerage services.
CO3	Understand the various financial and legal aspects of factoring, leasing, bill discounting,
	forfeiting and hire purchase services offered by financial service providers.
CO4	Develop an insight and understanding of merchant banking and financial services in India
Subject: Leadership skills and change Management	
CO1	To develop an understanding of the concept, nature, importance and characteristics of
	leadership.
CO2	Apply effective leadership styles, behaviour and attitudes to improve performance, growth,

	and job satisfaction and organization goals.
CO3	To develop an understanding of team management, team work and collaboration,
	development through self-awareness & self-discipline and various leadership development
	programmes.
CO4	To develop a critical appreciation of theories and practices in the management of change
	and apply this understanding to their professional roles as change agents and planning
	organizational change
Subject: Performance Management	
CO1	To acquaint the students learning with the basic knowledge of objectives and importance of
	performance appraisal, Learn methods and techniques to appraise performance to maintain and
	develop the employee effectiveness.
CO2	To offer insights for performance management system, how a performance management system is
	designed in an organization for improved performance standards, systems and processes.
CO3	To acquaint the students with the concept of HRD - mechanism and to create effective workforce
	with enhanced abilities. To learn the various tools for identifying and mapping employee
	competencies.
CO4	To learn the behavioral performance management and OB modifications for developing the
	integrated framework of performance counseling capable of solving most of the problems
	confronting the human side of organizations
Subject: Consumer Behavior	
CO1	Apply basic concepts of consumer behavior to understand the market to create sales.
CO2	Understand consumer behavior in order to develop strategies to increase market share.
CO3	Understand Perception of Consumer Behavior to develop sales.
CO4	Understand Consumer Attitude about overall products sales
Subject: Marketing of Services	
CO1	Understand in detail the basic concepts of service sector and develop insight in marketing of
	services.
CO2	Appreciate the difference between marketing physical products and intangible services,
	including dealing with the extended services marketing mix.
CO3	Understand service consumer behavior in order to achieve sustainable customer value.
CO4	Understand importance of customer relationship in service delivery
BBA (FT) I SEM	
Subject: English	
CO1	To develop the English proficiency among the students.
CO2	To develop communication and inter personal skills of students.
CO3	To thrive an insight to English literature.
CO4	To imbibe the understanding of English Grammar and usage of English in day to day lives.
Subject: Global Business Communication and Public Relation	
CO1	To gain an understanding with the terms used in export and import business.
CO2	To develop competence and expertise in writing global business letters.
CO3	To understand the various aspects of foreign trade while writing effectively.
CO4	To enhance inter-personal skills for building strong trade relations
Subject : Introduction to Computers	
CO1	Basic understanding of Computer fundamentals
CO2	Knowledge about basic Computer peripherals and hardware systems
CO3	Awareness of Computer Number system and other applications of MS-Office in business

CO4	Basic Computer knowledge for working in a Business environment
Subject: Basic Mathematics and Statistics	
CO1	To provide students with knowledge and capability in formulation and analysis of
	mathematical models of real life applications.
CO2	To Choose appropriate mathematics and statistical methods and apply them in various
	data analysis problems
CO3	To develop analytical techniques to solve problems.
CO4	To develop computational skills appropriate for mathematician to use when solving problem
Subject: Business Law	
CO1	**Awareness of important business and economic laws and their impact on business**
	in India.
CO2	**Identify the fundamental legal principles behind contractual agreements.**
CO3	**Identify and discuss the legal implications of business decisions.**
CO4	**Application of legal theory to determine the legal issues in assigned cases.**
Subject: Principles of Business Administration	
CO1	Understanding of the basic concepts of management and functions and responsibilities of
	the manager in the export-import business.
CO2	Learn about the tools and techniques of planning and organizational structure.
CO3	Understanding of traits, dimensions, and styles of effective leaders and importance of
	employee motivation and staffing in an organization.
CO4	Learn about different types of control means in a business setting and why it is needed.
BBA (FT) II SEM	
Subject: International Trade Theory	
CO1	Acquaintance with the basic concepts and terminologies of foreign trade
CO2	Develop the economic perspective with foreign trade knowledge.
CO3	Understanding the role and functions of foreign exchange and its related Institutions.
CO4	Assisting in learning the various effects of exchange fluctuations and control
Subject: Principle of Marketing	
CO1	To gain an understanding with the terms used in export and import business.
CO2	To develop competence and expertise in writing global business letters.
CO3	To understand the various aspects of foreign trade while writing effectively.
CO4	To enhance inter-personal skills for building strong trade relations
Subject : Financial Accounting	
CO1	To acquaint student with the basic accounting concepts
CO2	To impart effective methodology to record business operation of an entity
CO3	Demonstrate critical thinking skill to analyze financial statements of an enterprise.
CO4	Develop the ability to communicate accounting data of corporate sector effectively
Subject: Global business Environment	
CO1	To show how international business is affected by the different types of environments (i.e.
	economic, political, social, cultural, financial, technological) in which it operates on micro
	and macro level.
CO2	To analyze trends and changes in the current global business environment and debate the
	impact of globalization on businesses particularly on business planning and marketing
	strategies.

CO3	To introduce students to the concept of euro currency, Balance of Payments and Transfer
	of Technology.
CO4	To discuss the relevance of international institutions, governments and nongovernmental
	organizations to international business; and to analyze multinational firms" responses to
	threats and opportunities in the global business environment
Subject: Foreign Language – German	
CO1	Enable student to understand the Culture, History Uses of foreign Language
CO2	Create ability in student to convert the English communication into Foreign Language
CO3	Enhance & Enrich students to apply their knowledge in writing reading and communicate
	verbally in Foreign Language
CO4	Enable student to negotiate with a foreign Exporter & Importer
Subject: Economic & Commercial Geography	
CO1	Students will able to know about major International Trade Routes.
CO2	Students will able to understand the geographic advantages of countries in international
	trade.
CO3	Students will be able to understand the economy of different countries
CO4	Students will be able to know about trade relations between countries
	IPS ACADEMY, -INDORE
BBA (FT) III SEM	
	Course Outcomes (CO)
Subject: Export Import Policies and Authorities	
CO1	Acquaintance with the basic concepts and terminologies of foreign trade
CO2	Develop the economic perspective with foreign trade knowledge.
CO3	Understanding the role and functions of foreign exchange and its related Institutions.
CO4	Assisting in learning the various effects of exchange fluctuations and control
Subject:	**Export Procedure and Documentation**
CO1	To study the export procedure and formalities in India.
CO2	To understand the foreign trade policy of India.
CO3	To study the need and significance of export documentation in India.
CO4	To examine the various export related documents required at the time of export
Subject : Foreign Trade Information System	
CO1	To understand the applications of management information system in Business operations
CO2	To understand the applications of MIS in import-export Business
CO3	To study the planning, designing and implementation process of Management Information
	System
CO4	To understand the role of Decision Support System in Managerial Decision Making
Subject: Import Finance	
CO1	To Comply with Trade and Exchange regulations relating to Imports.
CO2	To Know the procedure for getting LOC (letter of credit) open for imports
CO3	Knowledge of short and medium term finance and finance by government agencies
CO4	To recognize the sources of financing imports
Subject: Import Management	
CO1	Thorough understanding of intricacies of import procedural formalities of documentary
	requirements for conducting import trade.
CO2	Gain knowledge about cost incurred in importing and its fullest exploitation to gain
	maximum profit.
CO3	Enable participants to develop knowledge and skills needed in choice of transport and

	marine insurance
CO4	Identification and development of alternative procurement channels to make import
	procuring an easy and profitable process
Subject: Export Finance	
CO1	Define key terminology related to export finance
CO2	Illustrate the applicability of financing for specific business or transactions.
CO3	Identify and understand all the key elements of a pre-shipment and post-shipment
	finance.
CO4	Identify the problems related to export finance
BBA (FT) IV SEM	
Subject: Global Business Laws & Taxation	
CO1	To demonstrate an understanding of the Legal Environment in which the export and import
	business function
CO2	To identify laws, conditions and regulations that impact business in national and
	international work environments.
CO3	To understand various modes of dispute resolution in business transactions.
CO4	Identify and discuss the legal implications of business decisions and application of basic
	legal knowledge to business transactions.
Subject: Quality Control, TQM, AND ISO-9000	
CO1	Students will be able to implement the basic principles of TQM in manufacturing and
	service based organization with context of Export and Import.
CO2	Identify the key aspects of the quality of export goods with appropriate tools and
	techniques for controlling, improving and measuring quality.
CO3	Understand Legal provisions of Quality Control and Inspection Act, 1963.
CO4	Will be able to evaluate the need of quality in terms of ISO 9000
Subject : Computer Application to Foreign Trade I	
CO1	Understand the concept of Computer Application functioning of an export house .
CO2	Understand the role of IT & functioning of Office Automation Equipments.
CO3	To gain knowledge about Application software which is used in Export-Import Softwares.
CO4	Get the knowledge about Multimedia Application and Electronic transfer system and also
	understand
Subject: Management of Risks & Settlement of Claims in Foreign Trade	
CO1	Enable student to understand the Global Business risk involved in Global Economy and
	apply the management ability to manage those risks.
CO2	Understand the role of Insurance and Insurance Agencies Scheme to handle the risks in
	Global Business.
CO3	Enhance the student with various types of risks that can be controlled & diversified along
	with the risks which are non diversifiable
CO4	Enrich the Students to deal with the Claim settlement procedure & Methods of losses
	occurred due to risks
Subject: Packaging and Distribution Channels	
CO1	Develop an understanding of the techniques of export packaging.
CO2	Understand the selection method of marking and labeling.
CO3	Develop unique export distribution channels.
CO4	Understand the dynamics of marketing in national and international business

Subject: Transportation And Material handling in Foreign Trade	
CO1	Understand the basic concept of transportation and the recent developments
CO2	Evaluate the different modes of transportation and preparation of documentation.
CO3	Understand and evaluate the different types of warehouse facilities and cost of
	warehousing.
CO4	Understand the concept of material handling and cargo handling in foreign trade
BBA (FT) V SEM	
Subject: World Trade Organization	
CO1	Basic understanding of WTO.
CO2	Knowledge about basic concepts of WTO norms, structure and treatments.
CO3	Preparing students to understand general WTO Principles for better trade with all nations
	like TRIPS, TRIMS.
CO4	Developing concept on effect of WTO on specific sectors trade and also on India
Subject: Global Market Research And Demand Forecasting	
CO1	Plan and undertake qualitative or quantitative Market Research and demonstrate the ability
	to appropriately analyze data to resolve marketing issues and be able to assess market
	research for quality and relevance
CO2	Critically analyze market research methods and understand their strengths and
	weaknesses. Demonstrate an understanding the framework that market research needs to
	operate within.
CO3	Develop skills related to the analysis of international marketing data, in particular the use of
	secondary data in assessing the international marketing opportunities
CO4	Provide an understanding about statistical methods of demand analysis and forecasting
	and increase knowledge and skills to help in developing international market entry
	strategies.
Subject : Thrust Product & Thrust Market	
CO1	Understand the business potential of thrust product from export, economic growth and
	foreign revenue generation point of view.
CO2	Able to apply knowledge for market selection, strategy development and effective business
	presentation.
CO3	Develop technical and non-technical ability for effective decision making, data analysis and
	promotion of thrust products in international market.
CO4	Analyze the basic requirements for enhancing export of thrust products across the globe
Subject: Advertising and Sales Promotion in Foreign Trade	
CO1	Analyze the expanding global environment of media and communication techniques.
CO2	Examine the importance of global market segmentation, position and action objectives to
	the development of an advertising and promotion program.
CO3	Understand the Development of creative strategies for global advertising, Plan media
	strategy, scheduling, and vehicle selection.
CO4	Assess strategic uses of sales promotions with respect to global environment
Subject: Computer Application to Foreign Trade II	
CO1	Understanding use of e-commerce in import export
CO2	Understand the use of information systems in foreign trade
CO3	To understand different types of computers
CO4	To understand the import export supply chain management
Subject: State Trading in India	
CO1	Critically understand the concept of state trading and its benefits, functions and roles

CO2	Understand the role of state trading in import and export in Indian economy
CO3	Understand the various types of state trading organization and their contribution in import
	and export in Indian economy
CO4	Analyze the various problems and future challenges as well as opportunities associated
	with state trading in India
BBA (FT) VI SEM	
Subject: Export Incentives and Institutional Support	
CO1	Students will able to know about various export incentives
CO2	Students will get knowledge about export houses and their working
CO3	Students will get acquainted with Free Trade Zones and Export Processing Units
CO4	Students will understand the working and support provided by different Export Promotion
	Institutions
Subject: Export Pricing & Product Planning	
CO1	To understand the factors of pricing decisions & methods of pricing.
CO2	To develop the conceptual clarity about pricing of exports through different pricing
	strategies.
CO3	Developing the conceptual understanding of product planning.
CO4	To develop the skills to learn the concepts of marketing & packaging in business
Subject : Foreign Collaboration and Multinationals	
CO1	To study about the role of foreign collaborators like Multinationals in India
CO2	To understand about the contribution of foreign collaborators like Multinationals in India.
CO3	To examine and study about the joint ventures and foreign investors in India's foreign trade
	during recent years.
CO4	To study about India's foreign trade overall in terms of exports and imports
Subject: Foreign Exchange & Exchange Control	
CO1	To explain the role of foreign exchange in setting international transactions.
CO2	To make students aware of the changes in exchange rate and regulation of risks involved.
CO3	Develop an understanding of exchange control system in management of foreign
	operations.
CO4	Evaluate cross-border investment opportunities in terms of devaluation of rupee
Subject: New Techniques in Multinational Marketing	
CO1	To provide detailed information about the development of new techniques of foreign trade in
	the light of ongoing changes in the world economy.
CO2	To provide understanding of theories and conceptual frameworks that explain why and how
	firms internationalize.
CO3	To Apply the conceptual frameworks learned in this course in a real-life experiential learning
	project that comprises an analyses of international economic, institutional and market
	environments
CO4	To familiar with the nature and practices of international marketing and its dynamism from
	the domestic marketing models and approaches
BCA I SEM	
Subject: Mathematics-I	
CO1	Communicate mathematics both orally and in well written sentences and should be able to
	explain solutions to problems.

CO2	Work with functions represented in a variety of ways: graphical, numerical, analytical, or
	verbal. They should understand the connections among these representations.
CO3	Meaning of the derivative in terms of a rate of change and local linear approximation and
	should be able to use derivatives to solve a variety of problems
CO4	To identify areas in mathematics and other fields where Calculus is useful.
Subject: Statistics-I	
CO1	How to calculate and apply measures of location and measures of dispersion grouped
	and ungrouped data cases
CO2	How to apply discrete and continuous probability distributions to various business
	problems.
CO3	Offers a broad coverage of standards and established methods through leading edge
	techniques.
CO4	The course is designed to acquaint students with the basic principles of applying
	statistical methods to management and their utilization in technological processes
subject : Programming and problem solving through C-I	
CO1	To understand the programming concept and its basic constructs.
CO2	To enhance creativity of mind analytically, logically, mathematically.
CO3	To analyze the real life problem and solve it by writing programs.
CO4	To develop a foundation for other programming language.
Subject: PC Software	
CO1	This course introduces the concepts of computer fundamental & their applications for the
	efficient use of office technology.
CO2	Demonstrate the basic technicalities of creating Word documents.
CO3	Create and design a spreadsheet for general office.
CO4	Demonstrate the basic technicalities of creating a PowerPoint presentation.
Subject: Digital computer Electronics	
CO1	To acquire the basic knowledge of digital logic levels and application of knowledge to
	understand digital computer organization.
CO2	It introduces the fundamentals of digital arithmetic and programmable logic.
CO3	To prepare students to perform the analysis and design of various digital electronics.
CO4	The ability to understand, analyze and design various combinational and sequential
	circuits.
BCA II SEM	
Subject: Mathematics-II	
CO1	The objective of this class is to be able to write rigorous mathematical proofs for basic
	theorems in multi-variable calculus involving the fundamental tools such as continuity and
	differentiability.
CO2	model spatial problems with vectors, lines, planes, curves and surfaces in three-
	dimensional space a,b,c.
CO3	Mathematics majors will learn and retain basic knowledge in the core branches of
CO4	Mathematics majors will be able to learn and explain mathematics on their own.
Subject: statistical methods part II:	
CO1	Perform Test of Hypothesis as well as calculate confidence interval for a population
	parameter for single sample and two sample cases.
CO2	Understand the concept of p-values.
CO3	Learn non-parametric test such as the Chi-Square test for Independence as well as
	Goodness of Fit

CO4	calculate confidence interval for a population parameter for single sample and two.
Subject : Problem solving and programming through c –II	
CO1	Understand modular programming.
CO2	Access values by address and dynamic memory allocation.
CO3	Understand about data storing in files.
CO4	Understand GUI programming.
Subject: Introduction to Information System	
CO1	This course provides brief understanding to the students and develops their skills for
	running effective business in any organization.
CO2	It aims to develop broad understanding and use of hardware and software for enhancing
	business.
CO3	It aims to provide different database management techniques, applications. In engineering
	and management context.
CO4	It provides use of E-commerce, their types, legal issues and cyber crime related to E-
	business
Subject: Hindi	
CO1	Hkkjrh; fparu ijaijk vkSj Hkko&laink ls lk{kkRdkj ds vfrfjDr Hkk"kk dh egRrk vkSj mlds fofo/k
	#i fgUnh dh “kCn laink] okD;&lajpuk] i=&ys[ku ,oa Hkko& iYyou dk fodkl gksxkA
CO2	Hkkjrh; laLd`frd vkSj fparu ijaijk ls ifjp; izklr dj visf{kr Kku dks fodflr djsaxsaA
CO3	Tkhou&ewY;] lekt&O;oLFkk] jk"Vªh; miyfC/k;ksa vkSj fodkl dh fn”kkvksa ls ifjfpr gksxsA
CO4	laizs"k.k dkS”ky dh fodkl ds lkFk&lkFk fofHkUu fo"k;ksa dh vk/kkjHkwr vo/kkj.kkvksa dks
	n`< djsxsa rFkk mUgksaus Hkk"kkxr v/;;u dh vksj mUeq[k gksxsaA
BCA III SEM	
Subject: Mathematics-III	
CO1	Solve the problems choosing the most suitable method.
CO2	Apply the fundamental concepts of Ordinary Differential Equations and Partial Differential
	Equations and the basic numerical methods for their resolution
CO3	Understand the difficulty of solving problems analytically and the need to use numerical
	approximations for their resolution
CO4	Apply series solutions to ordinary differential equations
Subject: OBJECT ORIENTED PROGRAMMING THROUGH C++	
CO1	This course describes the procedural and object oriented paradigm with concepts of
	streams, classes, functions, data and objects.
CO2	It aims students to be familiar with using C++ functions and the concepts related to good
	modular design.
CO3	It aims students to be able to build C++ classes using appropriate encapsulation and
	design principles.
CO4	The ultimate goal is to make students a good programmer.
Subject : Digital Computer Electronics	
CO1	To acquire the basic knowledge of digital logic levels and application of knowledge to
	understand digital electronics circuits.
CO2	It introduces the fundamentals of digital arithmetic and programmable logic.
CO3	To prepare students to perform the analysis and design of various digital electronic.
CO4	The ability to understand, analyze and design various combinational and sequential
	circuits.

Subject: Accounting and Financial management	
CO1	Acquaintance with the basic concept of Financial Accounting , Financial Management and
	Cost Accounting..
CO2	Preparation of financial statements in accordance with Generally Accepted Accounting
	Principles
CO3	Develop critical thinking skills to analyze financial data as well as the effects of differing
	financial accounting methods on the financial statements
CO4	Demonstrate the ability to communicate accounting data effectively, as well as the ability
	to provide knowledgeable recommendations.
Subject: Data Structure using C++	
CO1	Understand data arrangement and program run time.
CO2	Understand problems and implement solutions stepwise
CO3	Understand which data structure is used according to the requirements
CO4	Implements better approach to solve a problem
Subject: communication skills	
CO1	Recognized different styles of communication and how to improve understanding and build
	rapport with other.
CO2	Appreciated the role of body language and voice tone in effective communication.
CO3	Gaining active listening and responding skills.
CO4	Communicated their message in an effective and engaging way for the recipient.
	IPS ACADEMY, DEPARTMENT OF COMPUTER, INDORE
	Course Outcomes (CO)
BCA IV SEM	
Subject: coordinate geometry of Three dimensional:	
CO1	To familiarize the students with concept and applications Coordinate Geometry of Three
	Dimensions
CO2	To give the knowledge of geometry and its applications in the real world..
CO3	To make them aware that how they can communicate geometric ideas in the language of
	the mathematician
CO4	To familiarize the students with the fundamental theorems of Euclidean geometry
Subject: Database Management System	
CO1	Define the terminology, features, classifications, and characteristics embodied in database
	systems. Differentiate database systems from file system . Demonstrate an understanding
	of the data model.
CO2	Analyze an information storage problem and derive an information model expressed in the
	form of an entity relation diagram and other optional analysis forms, Demonstrate an
	understanding of the relational data model.
CO3	Transform an information model into a relational database schema and to use a data
	definition language and/or utilities to implement the schema using a DBMS. Formulate,
	using SQL, solutions to a broad range of query and data update problems.
CO4	Demonstrate an understanding of normalization theory and apply such knowledge to the
	normalization of a database .Oracle tools ,security, Codd's Rules
Subject : Data &Network Communication	
CO1	This course is to provide students with an overview of the concepts and fundamentals of
	data communication and computer networks.
CO2	Familiarize the student with the basic taxonomy and terminology of the computer
	Networking area, Various types of networks (LAN, MAN, WAN and Wireless networks) and

	their protocols.
CO3	How computer network hardware and software operate.
CO4	Investigate the fundamental issues driving network design. Learn about dominant network
	technologies.
Subject: Digital Computer Organization	
CO1	This course provides the brief introduction of Computer Organization that helps students to
	learn the processing of the system
CO2	It aims to provide the usage of different input and output devices
CO3	it aims to provide how memory will be efficiently utilized and what are the different types of
	memory required at the time of processing
CO4	it aims to provide different ways of processing the data.
Subject: UNIX Operating System	
CO1	
CO2	
CO3	
CO4	
Subject: Environmental Awareness	
CO1	Awareness To help the social groups and individuals to acquire knowledge of pollution and
	environmental degradation.
CO2	To provide every person with opportunities to acquire the knowledge, values, attitudes,
	commitment, and skills needed to protect and improve the environment.
CO3	To provide social groups and individuals with an opportunity to be actively involved at all
	levels in environmental decision making.
CO4	To provide social groups and individuals with an opportunity to be actively involved at all
	levels in working toward resolution of environmental problems.
BCA V SEM	
Subject: Introduction to basics of JAVA	
CO1	Gain knowledge about basic Java language syntax and semantics to write Java programs
	and use concepts such as variables, conditional and iterative execution methods etc
CO2	Understand the fundamentals of object-oriented programming in Java, including defining
	classes, objects, invoking methods etc and exception handling mechanisms.
CO3	Understand the principles of inheritance, packages and interfaces
CO4	Have the ability to write a computer program to solve specified problems in Java SDK
	environment to debug and run.
Subject: Computer Organization and Architecture	
CO1	To understand the structure, function and characteristics of computer systems. To
	understand the design of the various functional units and components of computers.
	Understand the architecture and functionality of central processing unit.
CO2	Classify and illustrate the internal and external components of a computer
	structure and its functionality which include CPU, buses, memory and I/O
	interfaces.
CO3	To explain the functionality of different type of internal and external memory
CO4	**To understand how instructions are run in between the CPU and memory.Each**
	micro program is the sequence of microinstructions. And these microinstructions
	are executed in sequence. The execution sequence is maintained by micro
	program Counter.

Subject : Software Engineering	
CO1	This course introduces the concepts and methods required for the construction of large
	software intensive systems.
CO2	It aims to develop a broad understanding of the discipline of software engineering
CO3	It aims to set these techniques in an appropriate engineering and management context.
CO4	It provides a brief account of associated professional and legal issues.
Subject: Discrete Mathematics	
CO1	Present the relationships between abstract algebraic structures with familiar numbers
	systems such as the integers and real numbers.
CO2	Present concepts and properties of various algebraic structures.
CO3	Present the operation of matrix in solving linear equation and in algebraic structure..
CO4	Present the drawing circuit diagram using Boolean expression and simplifying, Boolean
	expressions
Subject: WEB DESIGING AND WEB TECHNOLOGY	
CO1	Apply a structured approach to identifying needs, interests, and functionality of a website
	and design dynamic websites that meet specified needs and interests by writing well-
	structured, easily maintained, standards-compliant, accessible HTML code.
CO2	Use JavaScript to add dynamic content to pages by writing well-structured, easily
	maintained JavaScript code
CO3	Understand basic fundamental of JavaScript that works to validate on client site.
CO4	Develop a data driven web application.
Subject: Entrepreneurship	
CO1	Understand the entrepreneurial decision making process –from business model design to
	the launch of the new venture.
CO2	Develop a wide range of strategic, financial and human resource planning skills necessary
	to the new venture planning process.
CO3	Provide an atmosphere in which course participants can apply entrepreneurial and
	teamwork skills in finding, evaluating and beginning the process of implementing new
	venture concepts
CO4	Sharpen the presentation skills necessary to effectively communicate new venture ideas to
	potential investors.
BCA VI SEM	
Subject: Computer Graphics & Multimedia	
CO1	To provide comprehensive introduction about computer graphics system, design algorithms
	and two dimensional transformations
CO2	Familiarize the student with techniques of clipping, three dimensional graphics and three
	dimensional transformations
CO3	The computer graphics course prepares students for activities involving in design,
	development and testing of modeling,.
CO4	Learn about rendering, shading and animation.
Subject: Computer Oriented numerical methods Session	
CO1	The objective of this course is to provide conceptual understanding of various numerical
	methods, in particular, with reference to numerical solution of non linear equations and
	system of linear equations, interpolation, numerical differentiation and integration and
	numerical solution of ordinary differential equations. Important theorems and different

	formulae for various numerical methods to be covered with an aim of helping the students
	to understand the fundamentals, concepts and practical use of these methods in the field
	of computer sciences and applications.
CO2	Ability to solve the equation by Newton Raphson Method.
CO3	A study of several standard numerical algorithms.
CO4	Building models based on data, be it through interpolation, Least Square, or other
	methods.
Subject : MICROPROCESSOR & ASSEMBLY LANGUAGE PROGRAMMING	
CO1	To introduce 8085 architecture and programming in assembly language.To become
	familiar with the architecture and Instruction set of Intel 8085 microprocessor.
CO2	To familiar the students with interfacing of various peripheral devices with 8085
	microprocessor.
CO3	The student will be able to describe some of the characteristics of RISC and CISC
	architectures.
CO4	To understand interfacing of 16 bit microprocessor with memory and peripheral chips
	involving system design.
Subject: Principles & Practices of Management	
CO1	Cover the basic concepts of management.
CO2	Discuss and communicate the management evolution and how it will affect future
	managers
CO3	Practice the process of management's four functions: planning, organizing, leading, and
	controlling.
CO4	Develop the students' ability to work in teams.
	IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE
B.Sc. LIFE SCIENCE I YEAR	
	Course Outcomes (CO)
Subject: Biotechnology-I (Cell Structure & Biology)	
CO I1	To provide basic knowledge on cell – its theory & types.
CO2	To understand the composition and structure of cell in details.
CO3	To understand the various function of cell as well as cell division.
CO4	To provide basic knowledge on certain pathophysiogical conditions of cell.
Subject: Biotechnology-II (Microbiology)	
CO1	Gain basic knowledge about microbiology starting from history and classification of
	microorganisms
CO2	Appreciate the biological diversity of microbial forms, and appreciate that this diversity
	results from evolutionary processes
CO3	Learn and understand the concept of sterilization in microbiological techniques
CO4	Apply appropriate microbiology laboratory techniques, methodologies, instruments and
	equipment in accordance with current laboratory safety protocol
Subject : Chemistry-I (Physical Chemistry)	
CO1	Understanding basic concepts of Physical Chemistry
CO2	**Able to make mathematical calculations for derivations, theorems, and chemical**
	reactions and nuclear reactions.
CO3	Understands the basics of different physical states viz. solid, liquid and gaseous
CO4	**Understands different physical changes occur due to chemical reaction.**
Subject: Chemistry- II (Inorganic Chemistry)	
CO1	**Understanding basic concepts of Inorganic Chemistry**
CO2	**Understanding of properties and nature of elements**

CO3	**Able to understand the behavior of elements**
CO4	**Understanding the reactivity and bonding in inorganic compounds.**
Subject:	**Chemistry-III (Organic Chemistry)**
CO1	**Understanding basic concepts of Organic Chemistry**
CO2	Able to assign IUPAC nomenclature to the organic compounds
CO3	Understanding of preparation and properties of different chemical compounds.
CO4	Understanding of arrangement of groups in Organic compounds and their orientations.
Subject: Life Science-I (Introduction to Biochemistry, Cell Biology, Plant & Animal Diversity)	
CO1	To acquaint students on biochemistry of complex molecules like carbohydrates, lipids,
	amino acids, vitamins, enzymes and nucleic acid.
CO2	To impart knowledge and complete understanding on cell and its functions.
CO3	To impart knowledge on plant kingdom & its diversity.
CO4	To impact knowledge on animal kingdom for a more wider knowledge on life science.
Subject: Life Science-II (Environmental biology, genetics and evolution)	
CO1	Understand how interactions between organisms and their environments drive the
	dynamics of individuals, populations, communities, and ecosystems
CO2	Have an understanding of the critical issues facing the environment at global scales.
CO3	Describe the fundamental molecular principles of genetics
CO4	Understand the processes and patterns of evolution, and the role of evolution as the
	central unifying concept in environmental science
Subject: Foundation-I (fgUnh Hkk"kk vkSj uSfrd ewY;)	
CO1	vkt ds ;qx esa ,d Lukrd ds le{k laizs"k.k dkS'ky ,oa pqacdh; O;fDrRo ds lkFk n{k ukxfjd
	gksus rFkk vk/kqfud le; dh dlkSVh ij [kjk mrjus dh pqukSrh A
CO2	fgUnh Hkk"kk o uSfrd ewY; esa Hkk"kk,Wa O;kdj.k ds lkFk uSfrd f'k{kk ls cPpksa dks
	ifjfpr djkds muesa xq.k fodflr gksxkA
CO3	jk"V^{a}h; ,drk] v[kaMrk vkSj gekjh fojklr ls vius vkus okys Hkfo"; dks lkdkj djus esa izsj.kk
	L=ksr dk dk;Z djsxkA
CO4	vkn'kZ ukxfjd o l{ke ekuo gksxkA
Subject : Foundation-II (English)	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it's an eye opening for students and
	society.
CO2	Vocabulary building is the foundation of language, collection of words makes right impact
	on spoken and written language. Vocabulary is a key for successful communication.
CO3	This will help students to understand the rules of English language. Grammar lays the
	basics and correctness of English language.
CO4	This course enhances the writing skills and develops students to comprehend their
	writing and reading skills.
Subject: Foundation-III (Entrepreneurship Development)	
CO1	The students will be able to understand the concept of entrepreneurship and develop an
	entrepreneurial way of thinking that will help them in identifying and creating business
	opportunities that could be commercialized.
CO2	The students will learn about writing a Project Proposal and they will be able to write a
	detailed Project Report.
CO3	The students will gain an understanding of the roles played by various regulatory

	institutions and how to avail the benefit of various self-employment oriented schemes.
CO4	The students will be able to recognize the various problems faced by entrepreneurs and
	they will be able to identify the personal and professional management skills that enable an
	entrepreneur to face challenges and overcome them.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE	
Course Outcomes (CO)	
Subject: Biotechnology-I (Biophysics and Biochemistry)	
CO1	Student must have the clear concept of relationship among all forms of energy.
CO2	Student must know the importance of biochemistry including role of water, acids, bases
	and buffers in life.
CO3	Students knows varieties of biocatalysts.
CO4	Student acquires skills of drawing logical conclusions from observations taken with the help
	of scientific instruments.
Subject: Biotechnology-II (Bioinstrumentation, Biostatistics, and Bioinformatics)	
CO1	Student knows different techniques to measure macromolecules.
CO2	Student knows basics of statistics and computers along with biological databases.
CO3	Develop the skills to present ideas effectively and efficiently.
CO4	Student learns to perform and analyze laboratory experiments.
Subject : Chemistry-I (Physical Chemistry)	
CO1	Understand and applying fundamental concept of Thermodynamics , Surface &
	Electrochemistry to atoms and molecules
CO2	**Enlighting the utility of adsorption , catalysis, EMF, Carnot engine, electrolysis in**
	Lab experiments.
CO3	Analysis and interrelation of thermodynamic and electrochemical forms of energy
CO4	**Study potentiometric cell and able to calculate EMF of the cell.**
Subject: Chemistry- II (Inorganic Chemistry)	
CO1	Understanding of nature of different bonds and molecular orbital theory.
CO2	Explanation of periodic table and periodic properties of atoms.
CO3	Explanation of coordination compounds, naming them and isomerism
CO4	Course deals with theory of the determination of the electronic structure of d- metal
	complexes and their properties.
Subject:Chemistry-III (Organic Chemistry)	
CO1	Learns the fundamental of reaction mechanisms
CO2	Gains the potential about different spectroscopic techniques.
CO3	Study of the composition, structure, properties and reaction of various organic compound.
CO4	Predict the most common reaction mechanism in organic reactions.
Subject: Life Science-I (Morphology, Developmental Biology and Physiology of Angiosperms)	
CO1	To impact knowledge on morphology, physiology and developmental biology of plants.
CO2	To equip students on metabolism of carbohydrates, nitrogen & ATP synthesis.
CO3	Student must know in details the growth and development in plants.
CO4	To Impart knowledge on plant physiology and its mechanism.
Subject: Life Science-II (Morphology, physiology & Developmental Biology of Mammals)	
CO1	To provide knowledge on various organ systems of mammalian body.
CO2	To provide understanding on patho physiological conditions related to the various
	systems.

CO3	To provide detailed knowledge on developmental biology of mammals.
CO4	To impart skills on performing experiment in hematology and developmental biology.
Subject: Foundation-I (fgUnh Hkk"kk vkSj uSfrd ewY;)	
CO1	;qok 'kfDr dks oSf'od ekudksa dh dlkSVh ij [kjk dapu ln`'k cukuk gksA Kku gh og lk/ku gS]
	tks ekuo lalk/kuksa dks mnkUu ewY;] izHkko'kkyh O;fDrRo vkSj lkFkZd vfLrRo iznku djus
	esa l{ke gS A
CO2	vkt dh izfrLi/kkZRed thou 'kSyh esa ,d Nk= dks i;kZIr vkRefo'okl o laizs"k.kh;rk dks 'kfDr
	iznku djus esa vk/kkj ikB~;dze dh lajpuk vR;ar vk/kkj Hkwr ladYiuk dh Hkwfedk vnk
	djssxhA
CO3	lkFkZd l{ke tkx:d ukxfjd cudj jk"Vª fuekZ.k dh vn~Hkqr vfuok;Z dM+h cusxsaA
CO4	laizs"k.kh;rk ds iz{ksikL= dk lVhd iz;ksx djds og thou ds gj {ks= esa oakfNr izHkko ,oa
	lQyrk izkIr djsxsaA
Subject : Foundation-II (English)	
CO1	Students will be able to understand the thoughts and messages contained in the poems
	'Tree' and 'Night of the Scorpion". The stories and God Sees the Truth, But Wait
	and sentence formation pertaining to all walks of life .
CO2	Students will be able to form the sentence grammatically correct by following the rules and
	concepts of grammar pertaining to tenses, articles, nouns, pronoun, determiners and verbs.
CO3	Students will be able to comprehend and write an essay in a proper structure –Introduction,
	main body and the conclusion. They will be able to compose different types of formal and
	informal letters. While writing letter students adopt different strategies so that the letter
	serves the intended purpose and is not misunderstood.
CO4	Students will be able to achieve the goal of perfect translation by getting proficiency at both
	the source language and the target language. They differentiate between sense translation
	and literal translation.
Subject: Foundation-III (Environmental Sciences)	
CO1	Understand the natural environment as a system and how human enterprise affects that
	system.
CO2	An environmental studies course advances a student's knowledge in a variety of current
	issues such as energy, pollution and environmental awareness.
CO3	Course cover how to evaluate and address environmental problems and environmental
	studies Include forest ecology, energy efficiency in buildings. Sustainable practices,
	harnessing eco- friendly power sources and political ecology.
CO4	Object of course is to address the role of regulation on environment, how social &
	economic conditions affect ecological issues & major environmental challenges.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE	
Course Outcomes (CO)	
B.Sc. LIFE SCIENCE V SEM	
Subject: Biotechnology (Immunology and Animal Biotechnology)	
CO1	To develop understanding about normal micro flora of human body and disease causing
	micro organisms.
CO2	To develop knowledge related to pathogenesis by pathogens and immune response of
	body to overcome them.
CO3	To understand animal cell culture technique with regard to its requirements, applications
	and advantages.
CO4	To make students aware about transgenic biology
Subject : Chemistry	
CO1	Understand preparation and properties of different types of organic compounds

CO2	**Understand effect of interaction of radiations in reaction and components.**
CO3	Understand effect concepts of Bioinorganic chemistry& Analytical Chemistry
CO4	Understand effect concept of Acid-Base and Inorganic Chemistry
Subject: Life Science (Microbiology, Immunology and Animal Cell culture)	
CO1	To develop understanding about structure, classification, staining techniques and various
	mods of reproduction.
CO2	To develop knowledge about fermentation technology and various processes related to it.
CO3	To impart knowledge related to immune response of body against different types of
	antigens.
CO4	To understand animal cell culture technique with regard to its requirements, applications
	and advantages.
Subject: Foundation-I (fgUnh Hkk"kk vkSj uSfrd ewY;/Moral Value and Language)	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
CO4	The students will earn competency in LSRW skills; that help them to improve
	communication in both the languages. This will prepare them to participate in competitive
	examination.
Subject: Foundation-II (Basic of Computer & Information Technology)	
CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware components that make up a computer's hardware
	and the role of each of these components
CO3	Information technology (IT) is the use of computers to store, retrieve, transmit, and
	manipulate data or information, often in the context of a business or other enterprise.
CO4	Differentiate among various operating systems.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE	
Course Outcomes (CO)	
B.Sc. LIFE SCIENCE VI SEM	
Subject: Biotechnology (Plant and Environmental Biotechnology)	
CO1	To develop fundamental knowledge in plant biotechnology and its practical application in
	laboratory and agricultural field.
CO2	To develop skills on genetic manipulation in plant.
CO3	To develop knowledge and skills on various aspects of environmental biotechnology and
	its applications to protect environment.
CO4	To expose students on potential careers in various field of biotechnology
Subject : Chemistry	
CO1	Understanding of structure, properties and importance of Biomolecules
CO2	Able to elucidate structure of a compound using spectroscopic data
CO3	Understanding of different properties of transition metal complxes
CO4	Able to understand concept of organometallic compounds.
Subject: Computer Science (Molecular biology, genetic engineering and plant tissue culture)	
CO1	Be able to describe fundamental principles of molecular biology e.g. central dogma
CO2	Be able to explain the fundamental structure, properties and processes in which nucleic
	acids play a part.

CO3	Be able to understand the principles of cloning and genetic manipulation and their
	application in various fields of biotechnology.
CO4	Develop fundamental knowledge in plant biotechnology and its application in laboratory and
	industry settings.
Subject: Foundation-I (fgUnh Hkk"kk vkSj uSfrd ewY; /Moral Value and Language)	
CO1	vk/kkj ikB~;dze ls nksuksa ds vfuok;Z O;kdj.k lkekU; rFkk ikajifjd lkfgR;] yksd dyk,Wa
	LFkkiR; ,oa ys[ku ijaijk dk cks/k gks tk;sxkA
CO2	Kku ds rst ds lkFk&lkFk uSfrdrk dk cy fodflr gksxkA
CO3	**The student will learn about the different thoughts expressed in the text .They will**
	also learn about the various literary devices used in the text.
CO4	**The students will enrich vocabulary; they will learn one word substitutions,**
	homonyms, homophones, homographs, idioms, phrases punctuation. They will be
	able to write persuasive resume
Subject: Foundation-II (Basic of Computer & Information Technology)	
CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware components that make up a computer's hardware
	and the role of each of these components
CO3	Information technology (IT) is the use of computers to store, retrieve, transmit, and
	manipulate data or information, often in the context of a business or other enterprise.
CO4	Differentiate among various operating systems.
B.Sc. Biotechnology I YEAR	
Subject: Biotechnology-I (Cell Structure & Biology)	
CO1	To provide basic knowledge on cell – its theory & types.
CO2	To understand the composition and structure of cell in details.
CO3	To understand the various function of cell as well as cell division.
CO4	To provide basic knowledge on certain pathophysiogical conditions of cell.
Subject: Biotechnology-II (Microbiology)	
CO1	Gain basic knowledge about microbiology starting from history and classification of
	microorganisms
CO2	Appreciate the biological diversity of microbial forms, and appreciate that this diversity
	results from evolutionary processes
CO3	Learn and understand the concept of sterilization in microbiological techniques
CO4	Apply appropriate microbiology laboratory techniques, methodologies, instruments and
	equipment in accordance with current laboratory safety protocol
Subject : Chemistry-I (Physical Chemistry)	
CO1	Understanding basic concepts of Physical Chemistry
CO2	Able to make mathematical calculations for derivations, theorems, and chemical
	reactions and nuclear reactions.
CO3	Understands the basics of different physical states viz. solid, liquid and gaseous
CO4	Understands different physical changes occur due to chemical reaction.
Subject: Chemistry- II (Inorganic Chemistry)	
CO1	Understanding basic concepts of Inorganic Chemistry
CO2	Understanding of properties and nature of elements
CO3	Able to understand the behavior of elements
CO4	Understanding the reactivity and bonding in inorganic compounds.
Subject: Chemistry-III (Organic Chemistry)	

CO1	**Understanding basic concepts of Organic Chemistry**
CO2	Able to assign IUPAC nomenclature to the organic compounds
CO3	Understanding of preparation and properties of different chemical compounds.
CO4	Understanding of arrangement of groups in Organic compounds and their orientations.
Subject: Computer Science-I (Fundamentals of Computers)	
CO1	This course is to provide students with an overview of the fundamentals of
	computer. Familiarize the student with the basic taxonomy and terminology of the
	computer software and hardware.
CO2	To explain the Operating system (MS Windows) of computer. This course introduces the
	concepts of computer applications for the efficient use of office technology (MS Word &
	MS Excel)
CO3	Classify and illustrate the internal and external components of a computer
	structure and its functionality which include CPU, buses, memory and Input and
	Output interfaces
CO4	To give the overview of how to work the number system and Boolean Algebra. To
	understand the architecture and functionality of central processing unit
Subject: Computer Science-II (C Language)	
CO1	To advance structured and procedural programming understating and to improve C
	programming Skills.
CO2	To provide students with understanding of code organization and functional hierarchical
	Decomposition with using complex data types.
CO3	**Use of control statement using in computer application.**
CO4	**To understand about data type in programming language.**
Subject: Foundation-I (fgUnh Hkk"kk vkSj uSfrd ewY;)	
CO1	vkt ds ;qx esa ,d Lukrd ds le{k laizs"k.k dkS'ky ,oa pqacdh; O;fDrRo ds lkFk n{k ukxfjd
	gksus rFkk vk/kqfud le; dh dlkSVh ij [kjk mrjus dh pqukSrh A
CO2	fgUnh Hkk"kk o uSfrd ewY; esa Hkk"kk,Wa O;kdj.k ds lkFk uSfrd f'k{kk ls cPpksa dks
	ifjfpr djkds muesa xq.k fodflr gksxkA
CO3	jk"Vªh; ,drk] v[kaMrk vkSj gekjh fojklr ls vius vkus okys Hkfo"; dks lkdkj djus esa izsj.kk
	L=ksr dk dk;Z djsxkA
CO4	vkn'kZ ukxfjd o l{ke ekuo gksxkA
Subject : Foundation-II (English)	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it's an eye opening for students and
	society.
CO2	Vocabulary building is the foundation of language, collection of words makes right impact
	on spoken and written language. Vocabulary is a key for successful communication.
CO3	This will help students to understand the rules of English language. Grammar lays the
	basics and correctness of English language.
CO4	This course enhances the writing skills and develops students to comprehend their
	writing and reading skills.
Subject: Foundation-III (Entrepreneurship Development)	
CO1	The students will be able to understand the concept of entrepreneurship and develop an
	entrepreneurial way of thinking that will help them in identifying and creating business
	opportunities that could be commercialized.
CO2	The students will learn about writing a Project Proposal and they will be able to
	write a detailed Project Report.

CO3	The students will gain an understanding of the roles played by various regulatory
	institutions and how to avail the benefit of various self-employment oriented
	schemes.
CO4	The students will be able to recognize the various problems faced by
	entrepreneurs and they will be able to identify the personal and professional
	management skills that enable an entrepreneur to face challenges and overcome
	them.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE	
B.Sc. Biotechnology II YEAR	
Course Outcomes (CO)	
Subject: Biotechnology-I (Biophysics and Biochemistry)	
CO1	Student must have the clear concept of relationship among all forms of energy.
CO2	Student must know the importance of biochemistry including role of water, acids, bases
	and buffers in life.
CO3	Students knows varieties of biocatalysts.
CO4	Student acquires skills of drawing logical conclusions from observations taken with the help
	of scientific instruments.
Subject: Biotechnology-II (Bioinstrumentation, Biostatistics, and Bioinformatics)	
CO1	Student knows different techniques to measure macromolecules.
CO2	Student knows basics of statistics and computers along with biological databases.
CO3	Develop the skills to present ideas effectively and efficiently.
CO4	Student learns to perform and analyze laboratory experiments.
Subject : Chemistry-I (Physical Chemistry)	
CO1	Understand and applying fundamental concept of Thermodynamics , Surface &
	Electrochemistry to atoms and molecules
CO2	Enlighting the utility of adsorption , catalysis, EMF, Carnot engine, electrolysis in
	Lab experiments.
CO3	Analysis and interrelation of thermodynamic and electrochemical forms of energy
CO4	Study potentiometric cell and able to calculate EMF of the cell.
Subject: Chemistry- II (Inorganic Chemistry)	
CO1	Understanding of nature of different bonds and molecular orbital theory.
CO2	Explanation of periodic table and periodic properties of atoms.
CO3	Explanation of coordination compounds, naming them and isomerism
CO4	Course deals with theory of the determination of the electronic structure of d-
	metal complexes and their properties.
Subject: Chemistry-III (Organic Chemistry)	
CO1	**Learns the fundamental of reaction mechanisms**
CO2	**Gains the potential about different spectroscopic techniques.**
CO3	**Study of the composition, structure, properties and reaction of various organic**
	compounds.
CO4	Predict the most common reaction mechanism in organic reactions.
Subject: Computer Science-I (Object oriented Programming Concept using C++)	
CO1	Analyze and model requirements and constraints for the purpose of designing and
	implementing software artifacts and IT system.
CO2	Evaluate and compare designs of software products and IT systems on the basis of
	organizational and user requirements.
CO3	It implement an achievable practical application and analyze issues related to object-
	oriented techniques in the C++ programming language.

CO4	It use common software patterns in object-oriented design and recognize their applicability
	to other software development contexts.
Subject: Computer Science-II (Data Structure)	
CO1	To develop knowledge of basic data structures for storage and retrieval of ordered or
	unordered data. Data structures include: arrays, linked lists, binary trees, heaps, and hash
	tables.
CO2	To develop knowledge of applications of data structures including the ability to implement
	algorithms for the creation, insertion, deletion, searching, and sorting of each data
	structure.
CO3	To be able to choose appropriate data structure as applied to specified problem definition.
CO4	To know the appropriate use of a particular data structure and algorithm to solve a problem
	i.e. select basic data structures and algorithms for autonomous realization of simple
	programs or program parts
Subject: Foundation-I (fgUnh Hkk"kk vkSj uSfrd ewY;)	
CO1	;qok 'kfDr dks oSf'od ekudksa dh dlkSVh ij [kjk dapu ln`'k cukuk gksA Kku gh og lk/ku gS]
	tks ekuo lalk/kuksa dks mnkUu ewY;] izHkko'kkyh O;fDrRo vkSj lkFkZd vfLrRo iznku djus
	esa l{ke gS A
CO2	vkt dh izfrLi/kkZRed thou 'kSyh esa ,d Nk= dks i;kZIr vkRefo'okl o laizs"k.kh;rk dks 'kfDr
	iznku djus esa vk/kkj ikB~;dze dh lajpuk vR;ar vk/kkj Hkwr ladYiuk dh Hkwfedk vnk
	djssxhA
CO3	lkFkZd l{ke tkx:d ukxfjd cudj jk"Vª fuekZ.k dh vn~Hkqr vfuok;Z dM+h cusxsaA
CO4	laizs"k.kh;rk ds iz{ksikL= dk lVhd iz;ksx djds og thou ds gj {ks= esa oakfNr izHkko ,oa
	lQyrk izkIr djsxsaA
Subject : Foundation-II (English)	
CO1	Students will be able to understand the thoughts and messages contained in the poems
	‘Tree' and ‘Night of the Scorpion”. The stories and God Sees the Truth, But Wait
	and sentence formation pertaining to all walks of life .
CO2	Students will be able to form the sentence grammatically correct by following the rules and
	concepts of grammar pertaining to tenses, articles, nouns, pronoun, determiners and verbs.
CO3	Students will be able to comprehend and write an essay in a proper structure –Introduction,
	main body and the conclusion. They will be able to compose different types of formal and
	informal letters. While writing letter students adopt different strategies so that the letter
	serves the intended purpose and is not misunderstood.
CO4	Students will be able to achieve the goal of perfect translation by getting proficiency at both
	the source language and the target language. They differentiate between sense translation
	and literal translation.
Subject: Foundation-III (Environmental Sciences)	
CO1	Understand the natural environment as a system and how human enterprise affects that
	system.
CO2	An environmental studies course advances a student's knowledge in a variety of current
	issues such as energy, pollution and environmental awareness.
CO3	Course cover how to evaluate and address environmental problems and environmental
	studies Include forest ecology, energy efficiency in buildings.suistainable practices,
	harnessing eco- friendly power sources and political ecology.
CO4	Object of course is to address the role of regulation on environment, how social &economic
	conditions affect ecological issues & major environmental challenges.

IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE	
B.Sc. Biotechnology V SEM	
Course Outcomes (CO)	
Subject: Biotechnology (Immunology and Animal Biotechnology)	
CO1	To develop understanding about normal micro flora of human body and disease causing
	micro organisms.
CO2	To develop knowledge related to pathogenesis by pathogens and immune response of
	body to overcome them.
CO3	To understand animal cell culture technique with regard to its requirements, applications
	and advantages.
CO4	To make students aware about transgenic biology
Subject : Chemistry	
CO1	Understand preparation and properties of different types of organic compounds
CO2	**Understand effect of interaction of radiations in reaction and components.**
CO3	Understand effect concepts of Bioinorganic chemistry& Analytical Chemistry
CO4	Understand effect concept of Acid-Base and Inorganic Chemistry
Subject: Computer Science (Database Management system)	
CO1	To understand the different issues involved in the design and implementation of a Database
	Management System.
CO2	To study the physical and logical database designs, database modeling.
CO3	To understand SQL queries such as DDL, DML & DCL statement
CO4	To develop an understanding of essential DBMS concepts such as: database security,
	integrity, and concurrency
Subject: Foundation-I (fgUnh Hkk"kk vkSj uSfrd ewY;/Moral Value and Language)	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
CO4	The students will earn competency in LSRW skills; that help them to improve
	communication in both the languages. This will prepare them to participate in competitive
	examination.
Subject: Foundation-II (Basic of Computer & Information Technology)	
CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware components that make up a computer's hardware
	and the role of each of these components
CO3	Information technology (IT) is the use of computers to store, retrieve, transmit, and
	manipulate data or information, often in the context of a business or other enterprise.
CO4	Differentiate among various operating systems.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE	
B.Sc. Biotechnology VI SEM	
Course Outcomes (CO)	
Subject: Biotechnology (Plant and Environmental Biotechnology)	
CO1	To develop fundamental knowledge in plant biotechnology and its practical application in
	laboratory and agricultural field.
CO2	To develop skills on genetic manipulation in plant.
CO3	To develop knowledge and skills on various aspects of environmental biotechnology and

	its applications to protect environment.
CO4	To expose students on potential careers in various field of biotechnology
Subject : Chemistry	
CO1	Understanding of structure, properties and importance of Biomolecules
CO2	Able to elucidate structure of a compound using spectroscopic data
CO3	Understanding of different properties of transition metal complxes
CO4	Able to understand concept of organometallic compounds.
Subject: Computer Science (Operating System Concept)	
CO1	Master functions, structures and history of operating system.
CO2	Master various process management concepts including scheduling, synchronization,
	deadlocks.
CO3	Master concepts of memory management including virtual memory.
CO4	Be familiar with various types of operating systems including Linux.
Subject: Foundation-I (fgUnh Hkk"kk vkSj uSfrd ewY; /Moral Value and Language)	
CO1	vk/kkj ikB~;dze ls nksuksa ds vfuok;Z O;kdj.k lkekU; rFkk ikajifjd lkfgR;] yksd dyk,Wa
	LFkkiR; ,oa ys[ku ijaijk dk cks/k gks tk;sxkA
CO2	Kku ds rst ds lkFk&lkFk uSfrdrk dk cy fodflr gksxkA
CO3	The student will learn about the different thoughts expressed in the text .They will
	also learn about the various literary devices used in the text.
CO4	The students will enrich vocabulary; they will learn one word substitutions,
	homonyms, homophones, homographs, idioms, phrases punctuation. They will be
	able to write persuasive resume
Subject: Foundation-II (Basic of Computer & Information Technology)	
CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware components that make up a computer's hardware
	and the role of each of these components
CO3	Information technology (IT) is the use of computers to store, retrieve, transmit, and
	manipulate data or information, often in the context of a business or other enterprise.
CO4	Differentiate among various operating systems.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE	
M.Sc. Biotechnology I SEM	
Course Outcomes (CO)	
Paper I (Biochemistry)	
CO1	The student must understand the role of Biomolecules in living beings.
CO2	The student must be able to understand structure and organization of biomolecules in
	living cells.
CO3	The student must know the role of macromolecules in metabolism.
CO4	Student can design useful experiments, handles various tools and instruments and
	should be able to interpret data.
Paper II (Cell and Developmental Biology)	
CO1	To impart knowledge and handling on microscope and cell for their use in research
	activities.
CO2	Elaborate understanding on cell- its composition, structure, function & gene level inter
	actions.
CO3	To impart knowledge on medical cytophysiology for recent advances in basic understanding

	of certain diseases.
CO4	Role of genes during cell development in plant & animals.
Paper III(Microbiology)	
CO1	Have knowledge of Concept of classification of and ultra structure of Prokaryotic
	and Eukaryotic microorganism for their identification.
CO2	Understand the mechanism pathogenesis of microorganism and their impact on different
	host including humans
CO3	Have knowledge of techniques for Isolation, preservation and sterilization of
	microorganism and growth pattern and condition of microorganism from
	academic and industrial perspective.
CO4	Be able to Employ different microbiological techniques at laboratory level and be able to
	assess and troubleshoot the result
Paper IV (Biostatistics and Bioinformatics)	
CO1	Student knows the use of statistics in data handling.
CO2	Student must be able to retrieve relevant information from biological databases.
CO3	Student knows file formats, phylogenetics, microarray experiment and methods to
	determine macromolecular structures.
CO4	Student knows determination of secondary and tertiary structures of macromolecules.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE	
M.Sc. Biotechnology II SEM	
Course Outcomes (CO)	
Paper I (Molecular Biology	
CO1	Complete understanding on genome organization and various concepts on genetics in
	prokaryotes and eukaryotes.
CO2	To impart knowledge on replication, transcription, translation and post transcriptional and
	translational modifications.
CO3	To impart knowledge and skills on mutation and practical knowledge on genomics.
CO4	To develop concept in students on appropriate tools and techniques in biotechnological
	experiments and analyzing/interpretation of data.
Paper II (Bacterial genetics and genetic engineering)	
CO1	Have knowledge of biology of bacterial and phage genetics and processes involved in
	bacterial gene transfer
CO2	Have knowledge of tools and techniques for manipulation and analysis of genomic
	sequences.
CO3	Understand the applications of recombinant DNA technology and genetic engineering from
	academic and industrial perspective.
CO4	Be able to employ different techniques at laboratory level and be able to assess and
	troubleshoot the result
Paper III (Immunology)	
CO1	Have knowledge of Concept of immunity, and organization of immune system
CO2	Have knowledge of mechanism and component involve in antigen antibody reactions.
CO3	Understand the applications immune assay and concept of vaccination, hypersensitivity
	and tumour immunology from academic and industrial perspective.
CO4	Be able to employ different techniques at laboratory level and be able to assess and
	troubleshoot the result
Paper IV (Analytical Techniques)	
CO1	Students know to use basic properties of macromolecules in their detection &
	measurements.

CO2	Student knows chromatographic, electrophoretic techniques and centrifugation.
CO3	Student knows radioactivity and its use in biology.
CO4	Student knows to use bimolecular for industrial applications.
M.Sc. Biotechnology III SEM	
Course Outcomes (CO)	
Paper I (Enzyme Technology)	
CO1	Student must understand biological significance of biocatalyst.
CO2	Student must be able to isolate and purify enzymes.
CO3	Student must be able utilize enzymes for commercial purposes.
CO4	Student plans, performs and analyzes data related to biocatalyst.
Paper II (Food Science and Technology)	
CO1	Have knowledge of relation of biotechnology and food industry and microorganism
	associated with food.
CO2	Have knowledge of spoilage and food borne microbial disease and different food
	preservation technology, microbes based food product.
CO3	Understand the applications microbial involvement in food,Quality control and safety
	regulation of food standard from academic and industrial perspective.
CO4	Be able to employ different techniques at laboratory level and be able to assess and
	troubleshoot the result
Paper III (Environmental biotechnology)	
CO1	Know about the various regional and global concerns regarding the environment
CO2	Understand the recent developments in both the understanding of environmental processes
	and the technological advances in measurement techniques, remediation processes and
	pollution control
CO3	Have knowledge of specific examples and explain how chemical, biological and molecular
	sciences can be applied to identify and address issues of environmental concerns.
CO4	Be familiar with the utilization of microbial processes in waste and water treatment, and
	bioremediation
Paper IV (Plant Biotechnology)	
CO1	To develop knowledge in plant tissue culture (PTC) and its application for entrepreneurial
	skills.
CO2	To impart skills on various techniques in genetic engineering and PTC techniques.
CO3	To acquaint students on techniques to increase productivity & performance of plants/
	crops.
CO4	Basic understanding on techniques on r DNA used in PTC.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LABORATORY EDUCATION (ISLE), INDORE	
M.Sc. Biotechnology IV SEM	
Course Outcomes (CO)	
Paper I (Bioprocess Technology)	
CO1	Have knowledge of industrially important microorganism and their improvement
	technology.
CO2	Have knowledge of technology and requirementmicrobial production of different
	substances.
CO3	Understand the applications of microbial fermentation,and different microbial production
	and recovery processes from academic and industrial perspective.
CO4	Be able to employ different techniques at laboratory level and be able to assess and
	troubleshoot the result

Paper II (Genomics, proteomics, IPR and biosafety)	
CO1	Understand the basic concepts of emerging fields of genomics and proteomics.
CO2	Have knowledge of key technologies of genomics and proteomics and their applications in
	the study of human and model organism genomes.
CO3	Be familiar with the concept of intellectual property rights and their application in the
	scientific community
CO4	Be able to assess the best practices, know about biological containment and be prepared
	to safely conduct research
Paper III (Animal biotechnology)	
CO1	Student must be able to understand the methods of maintenance and use of animal cells
	in-vitro.
CO2	Student knows to scaling up of animal cell culture.
CO3	Student knows to culture tissue and organ.
CO4	Student knows to manipulate cells for medicinal applications.
M.Sc. Mathematics I SEM	
Course Outcomes (CO)	
Paper I: Advanced Abstract Algebra	
CO 1	Make the students learn about Eisenstein's irreducibility criterion which is quite helpful in
	the study of solvability of a polynomial.
CO2	Explain and discuss Extension fields and Roots of polynomials.
CO3	Students will justify statements with rigorous mathematical arguments through abstract
	algebra.
CO4	Introduce the students to advanced ideas such as Polynomial rings, Field theory, Algebraic
	closures, splitting fields and Galois theory.
Paper II: Real Analysis Paper II	
CO 1	Learn to prove various theorems about Riemann sums and Riemann integrals and
	emphasize the proofs' development. Analyze and evaluate Riemann-Stieltjes Integral and Its
	Properties, Sequences and Series of Functions.
CO2	Apply and verify Uniform convergence and its Continuity, Integration, differentiation.
CO3	Investigate and relate Some Special Functions like Power series, The Exponential and
	Logarithmic Functions, The Trigonometric Functions.
CO4	Skills to calculate the results of Functions of several variables. Can construct rigorous
	mathematical proofs of The Inverse function theorem, The Implicit function theorem
	Derivatives of higher order.
Paper III: Topology-I	
CO 1	Recognize sets and properties of sets , different sets and operations on sets , finite and
	Infinite sets, countable and uncountable sets. Understand well ordered sets and contour's
	Theorem.
CO2	Understand about topological spaces, Bases, order topology, product topology.
CO3	Students will understand closed sets, interior, exterior and neighborhood of a set.
	Connected spaces and path connectedness.
CO4	Recognize first and second countable spaces , separable spaces and Housdroff space.
Paper VI: Complex Analysis-I, Paper IV	
CO 1	Introduction to the holomorphic functions and their most important basic properties. The

	concepts of Complex numbers, functions, limits and differentiability, Cauchy-Riemann
	relations introduced to learn.
	learn about the applications of Complex integration and Integration is along paths in
CO2	Able to
	the complex plane. The central result of this spectacularly beautiful part of mathematics is
	Cauchy's Theorem guaranteeing that certain integrals along closed paths are zero.
CO3	Interpret and solve a variety of power series like Taylor and Laurent with complex functions
	are presented. Understand application of Rouch's Theorem and Schwarz' Lemma.
CO4	Describe bilinear transformation and conformal mappings between various plane regions.
Paper V: Programming in C-I	
CO 1	The course is designed to provide complete knowledge of C language. Students will be able
	to develop logics which will help them to create programs, applications in C
CO2	Develops the use of the C programming language to implement various algorithms, and
	develops the basic concepts and terminology of programming in general.
CO3	Understand basic Structure of the C-PROGRAMMING, declaration and usage of variables
	Exercise conditional and iterative statements to Write C program by using operators.
CO4	Understanding a defensive programming concept. Ability to handle possible errors during
	program execution
M.Sc. Mathematics II SEM	
Course Outcomes (CO)	
Paper I: Advanced Abstract Algebra-II	
CO 1	Students will see and understand the connection and transition between previously studied
	mathematics and more advanced mathematics. The students will actively participate in the
	transition of important concepts in advanced abstract mathematics.
CO2	Demonstrate capacity for mathematical reasoning through analyzing, Proving and
	explaining concepts from advanced algebra.
CO3	Understand the concepts of Modules, Noetherian Artinian modules , Nilpotent
	Transformations and the Algebra of Linear Transformation etc.
CO4	Generalized Jordan form Understand the concepts of Decomposition theorem, Uniqueness
	of the decomposition over any field and Rational canonical form etc.
Paper II: Lebesgue Measure & Integration	
CO 1	Application of measure theory is a part of the basic curriculum; develop Revision of basic
	tools, including in particular the concept of countable/uncountable sets.
CO2	Learn to apply and verify Abstract measure theory - σ-algebras, measurable sets, Lebesgue
	measure and its properties.
CO3	Able to learn about the applications of
	The Lp-spaces, The Holder and Minkowski Inequalities.
CO4	Analyze and evaluate Convergence and Completeness and learn to treat various theorems
	like Riesz-Fischer, Riesz Representation.
Paper III: Topology-II	
CO 1	Recognize continuous functions , compact sets. Understand the compactness of a set ,
	Sequential compact and countable compactness.
CO2	Understand separation axiom. Understand between regular and normal spaces. Importance

	of Urysohn's lemma and Tietze's extension theorem, product topology and embedding.
CO3	Understand difference between Nets and filters and convertion of one into other.
CO4	Student will understand fundamental group, homotopy of a path and fundamental Theorem of
	algebra.
Paper VI: Complex Analysis-II	
CO 1	contour integral or an integral over the real line.
CO2	Useful techniques for evaluating real integrals based on the 'calculus of residues'.
CO3	The skills of observation and drawing logical reasoning from the theorems to interpret and
	solve a variety of integral.
CO4	learn about the applications of Gamma function, Infinite product, Analytic
	Continuation, Schwartz reflection principle, etc.
Paper V: Programming in C-II	
CO 1	The course is designed in advanced part to provide complete knowledge of C language.
	Students will be able to develop logics which will help them to create programs,
	applications in C.
CO2	Develops the use of the C programming language to implement various algorithms and use
	of array in different areas with single and multidimensional.
CO3	Understand basic Structure of the C-PROGRAMMING, declaration and usage of use of
	structure and functions, Array of structure, pointer and structure, Unions.
CO4	Understanding a defensive programming concept. Ability to handle possible errors during
	program execution.
M.Sc. Mathematics III sem	
Course Outcomes (CO)	
Paper I: Functional Analysis -I	
CO 1	Basic idea of a normed linear spaces and operators on normed linear space, Hahn-Banach
	Theorem and their applications etc.
CO2	Explain the fundamental concepts of functional analysis and their role in modern
	Mathematics and applied contexts
CO3	Students are able to use Bounded and Continuous Linear Operators
CO4	This abstract course imparts an in-depth analysis of Dual space, Zorns Lemma , Finite
	Dimensional Spaces etc.
Paper II: Advanced Numerical Analysis -I	
CO 1	To understand the basic problem of Interpolation with different types and its effect on any
	numerical computations and also analysis the efficiency of any numerical algorithms and
	explains different types of errors which gets involved and propagates during numerical
	computations
CO2	To understand about Approximation , Orthogonalization process and their solution with
	computational technique
CO3	Student are able to familiarize about different numerical techniques of Numerical
	differentiation and their accuracy.
CO4	To understand and solve some engineering problem of real life using Numerical methods
	techniques based on interpolation and Numerical differentiation .
Paper III: Operations Research I	

CO 1	To develop and formulate Optimization models of real life problems and business oriented
	problems with their applications for decision Making. (Linear Programming Problem)
CO2	To learn some optimization techniques to find the optimal solution of optimization problems
	like Linear Programming Problems etc…
CO3	To understand the Simplex method to find an optimal solution for the standard linear
	programming problem and the corresponding dual problem.
CO4	To learn about mathematical techniques that will help those to understand and analyse
	managerial problems in industry so that resources (Man, machines, money etc.) may be
	utilized more effectively in optimal manner.
Paper VI: Integral Transform -I	
CO 1	Understand the Laplace transform standard result properties. Transform of unit step
	Function and Bessel's function. Inverse Laplace transform and its use.
CO2	Application of Laplace transforms to solve differential equation of different types.
CO3	Student will be able to solve partial differential equation and integral equation with the help
	of Laplace Transform
CO4	Use of Laplace Transform to solve Heat equations.
Paper V: Fundamentals of Computer Science-I	
CO 1	Analyze and model requirements and constraints for the purpose of designing and
	implementing software artifacts and IT system.
CO2	Evaluate and compare designs of software products and IT systems on the basis of
	organizational and user requirements.
CO3	It implements an achievable practical application and analyze issues related to object-
	oriented techniques in the C++ programming language.
CO4	To learn the fundamentals of Operating Systems.
M.Sc. Mathematics IV SEM	
Course Outcomes (CO):	
Paper I: Functional Analysis-II	
CO 1	Demonstrate capacity for mathematical reasoning through analysing proving and explaining
	concepts from functional analysis.
CO2	Understand the relevance of Operator Theory
CO3	Demonstrate accurate and efficient use of functional analysis techniques.
CO4	Students will understand Hilbert space theory; orthonormality, the Riesz representation
	theorem, orthonormal, Open and closed Mapping Theorem etc.
Paper II: Advanced Numerical Analysis -II	
CO 1	To understand the basic problem of Extrapolation and partial differentiation with different
	types and its effect on any numerical computations and also analysis the efficiency of any
	numerical algorithms.
CO2	To understand convergence of Multistep methods and theirs solution by various Numerical
	computational technique.
CO3	To learn how to obtain numerical solution of System Of Linear First Order Differential
CO4	To understand and solve some engineering problem of real life using Numerical methods
	techniques based on Numerical Integration and Ordinary Differential Equation . To Learn
	how to solve initial and boundary value problems and Finite Difference Methods numerically
	with using numerical Methods.
Paper III: Operations Research –II	
CO 1	To develop and formulate Optimization models of real life problems and business oriented

	problems with their applications for decision Making. (Linear Programming Problem)
CO2	To learn some optimization techniques to find the optimal solution of optimization problems
	like Linear Programming Problems etc…
CO3	To understand the Simplex method to find an optimal solution for the standard linear
	programming problem and the corresponding dual problem.
CO4	To learn about mathematical techniques that will help them to understand and analyse
	managerial problems in industry so that resources (Man, machines, money etc.) may be
	utilized more effectively in optimal manner.
Paper VI: Integral Transform-II	
CO 1	Student learns to solve wave equations with the use of Laplace transform.
CO2	Students will be able to solve electric circuit's beams problems with the use of Laplace
	transform.
CO3	Understand complex Fourier transform, inversion formula, sine and cosine transform.
	Properties of Fourier transforms, convolution and Parsvel's identity.
CO4	Student will learn finite fourier transform inverse formula. Operational and combined
	properties of sine and cosine transform
Paper V: Fundamentals of Computer Science-II	
CO 1	To introduce various techniques for representation of the data in the real world.
CO2	To develop application using data structure algorithms.
CO3	Demonstrate the principles behind systematic database design approaches by covering
	conceptual design, logical design through normalization.
CO4	Evaluate and compare designs of software products and IT systems on the basis of
	organizational and user requirements
	IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION(ISLE), INDORE
	Course Outcomes (CO)
B.Sc (CS) I Year	
SUBJECT: PHYSICS (PAPER I)	
- (MATHEMATICAL PHYSICS, MECHANICS AND PROPERTIES OF MATTER)	
CO1	Communicate mathematical and physical ideas to the students and apply them to
	formulate scientific reasoning.
CO2	Elasticity helps the students to identify the materials suitable for the construction of
	buildings, houses etc and properties of fluids especially knowledge of viscosity and
	surface tension help the students in their daily life.
CO3	Develop basic skills to perform experiments to understand the concept of existing theories of
	basic physics.
CO4	Students shall be familiar with the fundamental principles of the general theory of
	relativity and they shall know the meaning of basic concepts like the equivalence
	principles, inertial frames and time dilation

SUBJECT: PHYSICS (PAPER II)	
(THERMODYNAMICS AND STATISTICAL PHYSICS)	
CO1	The objective of this course is to learn how to apply thermodynamic principles in order to
	interpret thermodynamic systems and predict their behaviors.
CO2	The principles used in this course are based on “laws of thermodynamics” developed
	historically, the concept of entropy in different thermodynamics process. And also
	understand the different type thermodynamics scale.
CO3	An additional objective is to become familiar with the use of simple statistical mechanical
	models to predict thermodynamic properties.
CO4	Basic idea of monatomic ideal gas and number of microstates, most probable distribution of
	particles in discrete energy states under different constraints. Study of different statistics and
	black body radiations.
SUBJECT: MATHEMATICS (PAPER I) (ALGEBRA AND TRIGONOMETRY)	
CO1	Students will able to use matrices techniques for solving system of homogeneous and on
	homogeneous simultaneous linear equations. Find Eigen values and Eigen vectors of the
	matrix.
CO2	Identify consistent, inconsistent, dependent and independent system of equations in three
	variables and learn to write the solutions for each type.
CO3	Demonstrate algebraic ability with algebraic topics including exponential, logarithmic,
	and trigonometric functions and can express hyperbolic and inverse hyperbolic functions
	by using De Moiver's theorem.
CO4	Students will use Boolean algebra to design and simplify logical circuits. Apply truth
	tables and the rules of propositional and predicate about the statement.
SUBJECT: MATHEMATICS (PAPER II) (CALCULUS AND DIFFERENTIAL EQUATION)	
CO1	Develop the ability to use differentiation in expansions of function with the help of
	Maclaurins and Taylors theorem by using Leibnitz Theorem of successive
	Differentiation.
CO2	Develop the ability to find the multiple points for a curve and then trace the curve.
CO3	Develop the ability to use different methods of Integration for different types of functions. Use
	the method of Integration to find the area and length of the curves.
CO4	Develop the method of integration to solve variordus types of differential equations of
	first order and Higher degrees and also of second order.
SUBJECT: MATHEMATICS (PAPER III) (VECTOR ANALYSIS AND GEOMETRY)	
CO1	Skills to calculate the results of vector addition, subtraction, vector product of three and
	four vectors as well as distance between points, able to find length area and volumes of
	curve and objects with vector methods.
CO2	Learn to apply and verify Green's, Stoke's and Gauss theorem.
CO3	Investigate and relate geometric ideas to three dimensional object using various
	approaches and methods.

CO4	Analyze and evaluate rectangular, cylindrical and spherical co-ordinates by different methods
	of vector analysis.
COMPUTER SCIENCE PAPER 1 (FUNDAMENTALS OF COMPUTERS)	
CO1	This course is to provide students with an overview of the fundamentals of computer
CO2	Familiarize the student with the basic taxonomy and terminology of the computer software
	and hardware. To give the overview of how to work the number system and Boolean Algebra.
CO3	To explain the Operating system (MS Windows) of computer. To understand the architecture
	and functionality of central processing unit.
CO4	This course introduces the concepts of computer applications for the efficient use of office
	technology (MS Word & MS Excel) Classify and illustrate the internal and external
	components of a computer structure and its functionality which include CPU, buses,
	memory and Input and Output interfaces.
COMPUTER SCIENCE PAPER-2 (C Language)	
CO1	Understood about the hardware and software.
CO2	Able to represent problem solutions in various ways.
CO 3	Understand about programming language advantages.
CO 4	Understand about smart application development.
FOUNDATION COURSE (ENGLISH)	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it's an eye opening for students and society.
CO2	Vocabulary building is the foundation of language, collection of words makes right impact on
	spoken and written language. Vocabulary is a key for successful communication.
CO3	This will help students to understand the rules of English language. Grammar lays the basics
	and correctness of English language.
CO4	This course enhances the writing skills and develops students to comprehend their writing
	and reading skills
FOUNDATION COURSE (HINDI)	
CO1	vkt ds ;qx esa ,d Lukrd ds le{k laizs"k.k dkS'ky ,oa pqacdh; O;fDrRo ds lkFk n{k ukxfjd
	gksus rFkk vk/kqfud le; dh dlkSVh ij [kjk mrjus dh pqukSrh A
CO2	fgUnh Hkk"kk o uSfrd ewY; esa Hkk"kk,Wa O;kdj.k ds lkFk uSfrd f'k{kk ls cPpksa dks ifjfpr
	djkds muesa xq.k fodflr gksxkA
CO3	jk"Vªh; ,drk] v[kaMrk vkSj gekjh fojklr ls vius vkus okys Hkfo"; dks lkdkj djus esa izsj.kk
	L=ksr dk dk;Z djsxkA
CO4	vkn'kZ ukxfjd o l{ke ekuo gksxkA
FOUNDATION COURSE (ENTREPRENEURSHIP)	
CO1	The students will be able to understand the concept of entrepreneurship and develop an
	entrepreneurial way of thinking that will help them in identifying and creating business
	opportunities that could be commercialized.
CO2	The students will learn about writing a Project Proposal and they will be able to write a
	detailed Project Report.
CO3	The students will gain an understanding of the roles played by various regulatory institutions
	and how to avail the benefit of various self-employment oriented schemes.
CO4	The students will be able to recognize the various problems faced by entrepreneurs and they

	will be able to identify the personal and professional management skills that enable an
IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION (ISLE), INDORE	
Course Outcomes (CO)	
B.Sc. (CS) II Year	
SUBJECT: PHYSICS PAPER I (OPTICS)	
CO1	Understanding of the use of geometrical optics in daily life.
CO2	Theoretical and experimental knowledge of wave optics phenomenon like interference
	and diffraction.
CO3	Use of principle of polarization in different experiments by using double refracting
	crystals.
CO4	Applying concept of laser in designing caser and semiconductor devices.
SUBJECT:PHYSICS PAPER II (ELECTROSTATICS, MAGNETOSTATICS AND ELECTRODYNAMICS)	
CO1	Develop skills in the basic concept of electric forces and electric fields due to various charge
	distributions
CO2	Students will be able to explain concepts of classical electromagnetism and to show a
	working knowledge of a broad array of physical phenomena that are based upon
	fundamental concepts of charges, fields, and their interactions with matter.
CO3	Students will have strong physical reasoning and problem solving skills and apply these
	skills to the solution of theoretical and applied problems.
CO4	Communicate the sound knowledge of the nature of electromagnetic waves and how they
	relate to everyday phenomena to students
SUBJECT:MATHEMATICS PAPER I (ABSTRACT ALGEBRA)	
CO1	Understand the concepts of Groups, Sub-Groups , Normal Subgroups ,Quotient Groups,
	Rings, Sub-Rings, Ideals Including Integral Domain, Homomorphism and Isomorphism.
CO2	Explain the fundamental concepts of advanced algebra and its role in modern
	mathematics and applications.
CO3	Develop capabilities with an axiomatic treatment of mathematics.
CO4	Demonstrate to understand to verify relationships between operations satisfying various
	properties of groups.
SUBJECT:MATHEMATICS PAPER II (ADVANCED CALCULUS)	
CO1	Develop the ability to understand different types of sequences by various tests.
	Understand the convergence sequences.
CO2	Develop the ability to understand the function, its continuity. Mean Value Theorem and
	their Geometrical Interpretation.
CO3	Develop the ability to understand Limits, Continuity of Function of Two variables. Use of
	Partial Differentiation in various real problems. Use of differentiation in finding Maxima
	and Minima of a Function.
CO4	Develop the ability to find the double and triple integrals, Beta and Gamma Function. Use
	Multiple Integration in finding the volume and surface of the solid.

SUBJECT:MATHEMATICS PAPER III (DIFFERENTIAL EQUATION)	
CO1	Explain to find Solution of Differential Equations by Power series Method,
	Bessel's function, Legendre's function and their properties.
CO2	Develop to understsnd Laplace transformations, Existence theorem, Laplace transforms
	derivatives and integrals, Shifting theorem, Differentiation and integration of
	transforms.
CO3	Interpret and solve a variety of differential equations analytically and numerically.
CO4	Able to learn about the applications of partial differential equation in higher courses and
	various fields.
SUBJECT:COMPUTER SCIENCE Paper I : (OBJECT ORIENTED PROGRAMMING CONCEPT USING C++)	
CO1	Analyze and model requirements and constraints for the purpose of designing and
	implementing software artefacts and IT system
CO2	Evaluate and compare designs of software products and IT systems on the basis of
	organizational and user requirements
CO3	It implement an achievable practical application and analyze issues related to object-oriented
	techniques in the C++ programming language.
CO4	It use common software patterns in object-oriented design and recognize their applicability to
	other software development contexts.
(DATA STRUCTURE)	
SUBJECT:COMPUTER SCIENCE PAPER-2	
CO1	To develop knowledge of basic data structures for storage and retrieval of ordered or
	unordered data. Data structures include: arrays, linked lists, binary trees, heaps, and hash
	tables.
CO2	To develop knowledge of applications of data structures including the ability to implement
	algorithms for the creation, insertion, deletion, searching, and sorting of each data structure.
CO3	To be able to choose appropriate data structure as applied to specified problem definition.
CO4	To know the appropriate use of a particular data structure and algorithm to solve a problem
	i.e. select basic data structures and algorithms for autonomous realization of simple
	programs or program parts
SUBJECT:FOUNDATION COURSE (ENGLISH)	
CO1	Students will be able to understand the thoughts and messages contained in the poems
	'Tree' and 'Night of the Scorpion". The stories
	and God Sees the Truth, But Wait
	and sentence formation pertaining to all walks of life .
CO2	Students will be able to form the sentence grammatically correct by following the rules and
	concepts of grammar pertaining to tenses, articles, nouns, pronoun, determiners and verbs.
CO3	Students will be able to comprehend and write an essay in a proper structure –Introduction,
	main body and the conclusion. They will be able to compose different types of formal and
	informal letters. While writing letter students adopt different strategies so that the letter
CO4	
SUBJECT:FOUDATION COURSE (ENVIRONMENTAL STUDIES)	

CO1	
CO2	
CO3	
CO4	
IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION(ISLE), INDORE	
Course Outcomes (CO)	
B.Sc. (CS) V Sem	
PHYSICS	
CO1	
CO2	
CO3	
CO4	
MATHEMATICS (LINEAR ALGEBRA AND NUMERICAL ANALYSIS)	
CO1	numerically First Order Differential Equation.
CO2	
CO3	
CO4	Equation, Eigen vales, Eigen Vectors and Diagonalization method .
5. FOUNDATION COURSE (Basic of Computer & Information Technology)	
CO1	
CO2	
CO3	
CO4	
IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION(ISLE), INDORE	
Course Outcomes (CO)	
B.Sc. (CS) VI Sem	
SUBJECT:PHYSICS	
CO1	
CO2	
CO3	
CO4	
SUBJECT:MATHEMATICS (REAL ANALYSIS, DISCRETE MATHEMATICS, ELEMENTARY STATISTICS AND GRAPH THEORY)	
CO1	
CO2	
CO3	presented in Boolean logic. Reformulate statements from common language to formal
	logic.
CO4	Prove various theorems about Riemann sums and Riemann integrals and emphasize the

	proofs.
SUBJECT:COMPUTER SCIENCE (Operating System Concept)	
CO1	Master functions, structures and history of operating system
CO2	Master various process management concepts including scheduling, synchronization,
	deadlocks.
CO3	Master concepts of memory management including virtual memory.
CO4	Be familiar with various types of operating systems including Linux.
SUBJECT:FOUNDATION COURSE (ENGLISH, HINDI AND MORAL VALUE)	
CO1	vk/kkj ikB~;dze ls nksuksa ds vfuok;Z O;kdj.k lkekU; rFkk ikajifjd lkfgR;] yksd dyk,Wa
	LFkkiR; ,oa ys[ku ijaijk dk cks/k gks tk;sxkA
CO2	Kku ds rst ds lkFk&lkFk uSfrdrk dk cy fodflr gksxkA
CO3	The student will learn about the different thoughts expressed in the text .They will also learn
	about the various literary devices used in the text.
CO4	The students will enrich vocabulary; they will learn one word substitutions, homonyms,
	homophones, homographs, idioms, phrases punctuation. They will be able to write
	persuasive resume.
SUBJECT:FOUNDATION COURSE (Basic of Computer & Information Technology)	
CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware components that make up a computer's hardware and
	the role of each of these components
CO3	Information technology (IT) is the use of computers to store, retrieve, transmit, and
	manipulate data or information, often in the context of a business or other enterprise.
CO4	Differentiate among various operating systems.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION(ISLE), INDORE	
Course Outcomes (CO)	
B.Sc. (ELEX) I Year	
SUBJECT: PHYSICS (PAPER I)	
- (MATHEMATICAL PHYSICS, MECHANICS AND PROPERTIES OF MATTER)	
CO1	Communicate mathematical and physical ideas to the students and apply them to formulate
	scientific reasoning.
CO2	Elasticity helps the students to identify the materials suitable for the construction of
	buildings, houses etc and properties of fluids especially knowledge of viscosity and surface
	tension help the students in their daily life.
CO3	Develop basic skills to perform experiments to understand the concept of existing theories of
	basic physics.
CO4	Students shall be familiar with the fundamental principles of the general theory of
	relativity and they shall know the meaning of basic concepts like the equivalence
	principles, inertial frames and time dilation
SUBJECT: PHYSICS (PAPER II)	
(THERMODYNAMICS AND STATISTICAL PHYSICS)	
CO1	The objective of this course is to learn how to apply thermodynamic principles in order to
	interpret thermodynamic systems and predict their behaviors.
CO2	The principles used in this course are based on “laws of thermodynamics” developed

	historically, the concept of entropy in different thermodynamics process. And also
	understand the different type thermodynamics scale.
CO3	An additional objective is to become familiar with the use of simple statistical mechanical
	models to predict thermodynamic properties.
CO4	Basic idea of monatomic ideal gas and number of microstates, most probable distribution of
	particles in discrete energy states under different constraints. Study of different statistics and
	black body radiations.
SUBJECT: MATHEMATICS (PAPER I) (ALGEBRA AND TRIGONOMETRY)	
CO1	Students will able to use matrices techniques for solving system of homogeneous and on
	homogeneous simultaneous linear equations. Find Eigen values and Eigen vectors of the
	matrix.
CO2	Identify consistent, inconsistent, dependent and independent system of equations in three
	variables and learn to write the solutions for each type.
CO3	Demonstrate algebraic ability with algebraic topics including exponential, logarithmic,
	and trigonometric functions and can express hyperbolic and inverse hyperbolic functions
	by using De Moiver's theorem.
CO4	Students will use Boolean algebra to design and simplify logical circuits. Apply truth
	tables and the rules of propositional and predicate about the statement.
SUBJECT: MATHEMATICS (PAPER II) (CALCULUS AND DIFFERENTIAL EQUATION)	
CO1	Develop the ability to use differentiation in expansions of function with the help of Maclaurins
	and Taylors theorem by using Leibnitz Theorem of successive Differentiation.
CO2	Develop the ability to find the multiple points for a curve and then trace the curve.
CO3	Develop the ability to use different methods of Integration for different types of functions. Use
	the method of Integration to find the area and length of the curves.
CO4	Develop the method of integration to solve various types of differential equations of
	and Higher degrees and also of second order.
SUBJECT: MATHEMATICS (PAPER III) (VECTOR ANALYSIS AND GEOMETRY)	
CO1	Skills to calculate the results of vector addition, subtraction, vector product of three and
	four vectors as well as distance between points, able to find length area and volumes of
	curve and objects with vector methods.
CO2	Learn to apply and verify Green's, Stoke's and Gauss theorem.
CO3	Investigate and relate geometric ideas to three dimensional object using various approaches
	and methods.
CO4	Analyze and evaluate rectangular, cylindrical and spherical co-ordinates by different methods
	of vector analysis.
SUBJECT: ELECTRONICS PAPER I (BASICS OF SEMICONDUCTOR AND DEVICES)	
CO1	Basic knowledge of electronic components their specification, testing methods and types.
CO2	
CO3	The ability to understand and analyze the transistor their different configurations and
	applications of it.
CO4	Conceptual understanding of network theorems and solve complex circuits using it.
SUBJECT: ELECTRONICS PAPER II (ELECTRONIC CIRCUITS AND FUNDAMENTAL OF DIGITAL ELECTRONICS)	
CO1	Describe and apply the use of diode for construction of rectifiers and power supply and
	practically implement different applications of diode.

CO2	Exposed to other types of transistors such as FET, JFET, MOSFET and their
	characteristics and parameters
CO3	Analyze the applications of transistors as an Amplifier and their different types.
CO4	Knowledge of codes and number system and their practical applications.
SUBJECT: FOUNDATION COURSE (ENGLISH)	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it's an eye opening for students and society.
CO2	Vocabulary building is the foundation of language, collection of words makes right impact on
	spoken and written language. Vocabulary is a key for successful communication.
CO3	This will help students to understand the rules of English language. Grammar lays the basics
	and correctness of English language.
CO4	This course enhances the writing skills and develops students to comprehend their writing
	and reading skills
SUBJECT: FOUNDATION COURSE (HINDI)	
CO1	vkt ds ;qx esa ,d Lukrd ds le{k laizs"k.k dkS'ky ,oa pqacdh; O;fDrRo ds lkFk n{k ukxfjd
	gksus rFkk vk/kqfud le; dh dlkSVh ij [kjk mrjus dh pqukSrh A
CO2	fgUnh Hkk"kk o uSfrd ewY; esa Hkk"kk,Wa O;kdj.k ds lkFk uSfrd f'k{kk ls cPpksa dks ifjfpr
	djkds muesa xq.k fodflr gksxkA
CO3	jk"Vªh; ,drk] v[kaMrk vkSj gekjh fojklr ls vius vkus okys Hkfo"; dks lkdkj djus esa izsj.kk
	L=ksr dk dk;Z djsxkA
CO4	vkn'kZ ukxfjd o l{ke ekuo gksxkA
FOUNDATION COURSE (ENTREPRENEURSHIP)	
CO1	The students will be able to understand the concept of entrepreneurship and develop an
	entrepreneurial way of thinking that will help them in identifying and creating business
	opportunities that could be commercialized.
CO2	The students will learn about writing a Project Proposal and they will be able to write a
	detailed Project Report.
CO3	The students will gain an understanding of the roles played by various regulatory institutions
	and how to avail the benefit of various self-employment oriented schemes.
CO4	The students will be able to recognize the various problems faced by entrepreneurs and they
	will be able to identify the personal and professional management skills that enable an
	entrepreneur to face challenges and overcome them.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION(ISLE), INDORE	
Course Outcomes (CO)	
B.Sc. (ELEX) II Year	
SUBJECT: PHYSICS PAPER I (OPTICS)	
CO1	Understanding of the use of geometrical optics in daily life.
CO2	Theoretical and experimental knowledge of wave optics phenomenon like interference
	and diffraction.
CO3	Use of principle of polarization in different experiments by using double refracting

	crystals.
CO4	Applying concept of laser in designing caser and semiconductor devices.
SUBJECT:PHYSICS PAPER II (ELECTROSTATICS, MAGNETOSTATICS AND ELECTRODYNAMICS)	
CO1	Develop skills in the basic concept of electric forces and electric fields due to various charge
	distributions
CO2	Students will be able to explain concepts of classical electromagnetism and to show a
	working knowledge of a broad array of physical phenomena that are based upon
	fundamental concepts of charges, fields, and their interactions with matter.
CO3	Students will have strong physical reasoning and problem solving skills and apply these
	skills to the solution of theoretical and applied problems.
CO4	Communicate the sound knowledge of the nature of electromagnetic waves and how they
	relate to everyday phenomena to students
SUBJECT:MATHEMATICS PAPER I (ABSTRACT ALGEBRA)	
CO1	Understand the concepts of Groups, Sub-Groups , Normal Subgroups ,Quotient Groups,
	Rings, Sub-Rings, Ideals Including Integral Domain, Homomorphism and Isomorphism.
CO2	Explain the fundamental concepts of advanced algebra and its role in modern
	mathematics and applications.
CO3	Develop capabilities with an axiomatic treatment of mathematics.
CO4	Demonstrate to understand to verify relationships between operations satisfying various
	properties of groups.
SUBJECT: MATHEMATICS PAPER II (ADVANCED CALCULUS)	
CO1	Develop the ability to understand different types of sequences by various tests.
	Understand the convergence sequences.
CO2	Develop the ability to understand the function, its continuity. Mean Value Theorem and their
	Geometrical Interpretation.
CO3	Develop the ability to understand Limits, Continuity of Function of Two variables. Use of
	Partial Differentiation in various real problems. Use of differentiation in finding Maxima and
	Minima of a Function.
CO4	Develop the ability to find the double and triple integrals, Beta and Gamma Function. Use
	Multiple Integration in finding the volume and surface of the solid.
SUBJECT: MATHEMATICS PAPER III (DIFFERENTIAL EQUATION)	
CO1	Explain to find Solution of Differential Equations by Power series Method,
	Bessel's function, Legendre's function and their properties.
CO2	
CO3	
CO4	
SUBJECT: ELECTRONICS PAPER I (DIGITAL ELECTRONICS AND MICROPROCESSOR)	
CO1	Acquaint the knowledge of logic families, logic gates and expose to the field of

	digital electronics.
CO2	To prepare students to perform analysis and design of various digital electronic
	circuits and develop skill to build and troubleshoot digital circuits.
CO3	Analyze, design and implement different combinational and sequential circuits.
CO4	To introduce the world of microprocessor and description of 8085 (8 bit processor)
	with instruction set, programming and interfacing. Students are enabling to develop
	programming skill for 8085 assembly level programs.
SUBJECT: ELECTRONICS PAPER II (OPERATIONAL AMPLIFIER AND INSTRUMENTATION)	
CO1	Understood the Operational Amplifiers their parameters and various applications.
CO2	Acquired skill in various electronic measuring instruments such as CRO, Voltmeter,
	Ammeter, Multimeter, Function Generator and their practical significance.
CO3	Provide knowledge about biomedical instrumentation and X Ray machine with their
	practical.
CO4	Demonstrate the ability to design practical circuit to perform desired operations
	using measuring instruments
SUBJECT: FOUNDATION COURSE (ENGLISH)	
CO1	Students will be able to understand the thoughts and messages contained in the
	poems 'Tree' and 'Night of the Scorpion". The stories
	increase their vocabulary and sentence formation pertaining to all walks of life .
CO2	Students will be able to form the sentence grammatically correct by following the
	rules and concepts of grammar pertaining to tenses, articles, nouns, pronoun,
	determiners and verbs.
CO3	Students will be able to comprehend and write an essay in a proper structure –
	Introduction, main body and the conclusion. They will be able to compose different
	types of formal and informal letters. While writing letter students adopt different
	strategies so that the letter serves the intended purpose and is not misunderstood.
CO4	Students will be able to achieve the goal of perfect translation by getting
	proficiency at both the source language and the target language. They differentiate
	between sense translation and literal translation.
Subject:	
CO1	;qok 'kfDr dks oSf'od ekudksa dh dlkSVh ij [kjk dapu ln`'k cukuk gksA Kku gh og
	lk/ku gS] tks ekuo lalk/kuksa dks mnkUu ewY;] izHkko'kkyh O;fDrRo vkSj lkFkZd
	vfLrRo iznku djus esa l{ke gS A
CO2	vkt dh izfrLi/kkZRed thou 'kSyh esa ,d Nk= dks i;kZIr vkRefo'okl o laizs"k.kh;rk dks
	'kfDr iznku djus esa vk/kkj ikB~;dze dh lajpuk vR;ar vk/kkj Hkwr ladYiuk dh
	Hkwfedk vnk djssxhA
CO3	lkFkZd l{ke tkx:d ukxfjd cudj jk"Vª fuekZ.k dh vn~Hkqr vfuok;Z dM+h cusxsaA
CO4	laizs"k.kh;rk ds iz{ksikL= dk lVhd iz;ksx djds og thou ds gj {ks= esa oakfNr izHkko
	,oa lQyrk izkIr djsxsaA
IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION(ISLE), INDORE	
Course Outcomes (CO)	
B.Sc. (ELEX) V SEM	
SUBJECT: PHYSICS	

CO1	Basic concepts of quantum mechanics and solution of one-Dimension problems using
	Schrödinger equation.
CO2	Fundamental concepts of atomic spectroscopy using vector atom model and spectra of
	and alkali metal.
CO3	Types of molecular spectra and Raman Effect.
CO4	Develop concepts of counters and basic properties of nucleus
SUBJECT:MATHEMATICS (LINEAR ALGEBRA AND NUMERICAL ANALYSIS)	
CO1	Develop the ability to analyze and Evaluate the accuracy of General methods and Algorithms
	such as Interpolation, Algebraic and Transcendental equations to solve numerically First
	Order Differential Equation.
CO2	Under the basics of Finite Precision Arithmetic, Conditions of Problems and finding
	approximate solutions to Various Mathematical problems by using Numerical methods.
CO3	To Understand the basic concept of Vector Spaces and Matrix Algebra to solve complex and
	simple problems.
CO4	Use computational techniques and Algebraic skills for the study of system of Linear
	Equation, Eigen vales, Eigen Vectors and Diagonalization method .
SUBJECT: ELECTRONICS (THYRISTORS, IC TECHNOLOGY, MICROPROCESOR AND ELECTRICAL MOTORS)	
CO1	Exposure to different power devices and their various applications in the field of
	electronics.
CO2	Have knowledge of IC fabrication technology and use of PCB to implement electronic
	circuits.
CO3	Inculcate the knowledge of 8086 microprocessor their instruction set and programming.
CO4	Compare different types of electric motors with their advantages, disadvantages an
	applications.
SUBJECT: FOUNDATION COURSE (ENGLISH, HINDI AND MORAL VALUE)	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
CO4	The students will earn competency in LSRW skills; that help them to improve
	communication in both the languages. This will prepare them to participate in competitive
	examination.
IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION(ISLE), INDORE	
Course Outcomes (CO)	
B.Sc. (ELEX) VI Sem	
SUBJECT:PHYSICS	
CO1	Understanding of crystal structure, lattice structure and properties.

CO2	Develop concepts of semiconductor devices.
CO3	Knowledge of amplifiers and oscillators.
CO4	Basic concepts of nano structure
SUBJECT:MATHEMATICS (REAL ANALYSIS, DISCRETE MATHEMATICS, ELEMENTARY STATISTICS AND GRAPH THEORY)	
CO1	Recognize the important differences between descriptive and inferential statistics; distinguish
	between different types of variables and data; summarize, organize, tabulate and graph
	statistical data; read and understand statistical data present in various forms of the media;
	find and analyze measures of central tendency and variation for quantitative data.
CO2	To develop the concepts of various types of Graphs and Recognize properties of graphs
	such as distinctive circuits or trees. Find shortest path by various algorithms.
CO3	Students will use Boolean algebra to design and simplify logic circuits. Apply truth tables
	and the rules of propositional and predicate calculus. Formulate and interpret statements
	presented in Boolean logic. Reformulate statements from common language to formal
	logic.
CO4	Prove various theorems about Riemann sums and Riemann integrals and emphasize the
	proofs.
SUBJECT: ELECTRONICS (COMMUNICATION ELECTRONICS)	
CO1	To acquire knowledge of communication system and their different parameters.
CO2	To introduce different analog and digital modulation techniques methods to achieve it.
CO3	Deep insight to Television systems and antenna theory.
CO4	Develop the ability to understand the advance communication system such fiber optic
	communication and wireless system and an ability to solve the communication
	related problems.
SUBJECT: FOUNDATION COURSE (ENGLISH, HINDI AND MORAL VALUE)	
CO1	vk/kkj ikB~;dze ls nksuksa ds vfuok;Z O;kdj.k lkekU; rFkk ikajifjd lkfgR;] yksd dyk,Wa
	LFkkiR; ,oa ys[ku ijaijk dk cks/k gks tk;sxk
	A
CO2	Kku ds rst ds lkFk&lkFk uSfrdrk dk cy fodflr gksxkA
CO3	The student will learn about the different thoughts expressed in the text .They will also
	learn about the various literary devices used in the text.
CO4	The students will enrich vocabulary; they will learn one word substitutions, homonyms,
	homophones, homographs, idioms, phrases punctuation. They will be able to write
	persuasive resume.
M.Sc. Pharmaceutical Chemistry	
Semester -I	
Paper:- Principle of Inorganic Pharmaceutical Chemistry-I	
Paper Code:- MPC-101	
Course Outcome	
CO-I	

CO-II	
CO-III	
CO-IV	
IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION (ISLE), INDORE	
M.Sc. Chemistry Semester -I	
Course Outcome	
CO-I	
CO-II	
CO-III	
CO-IV	
Subject: Inorganic Chemistry	
CO1	Develop criteria to predict structure and bonding of molecules.
CO2	
CO3	
CO4	Determine the application of hard & soft Acid Base with broad concept of various theories along with E
	& C equations
Subject: Organic chemistry	
CO1	
CO2	
CO3	
CO4	
Subject : Physical Chemistry	
CO1	
CO2	
CO3	
CO4	
Subject: Application spectroscopy	
CO1	
CO2	
CO3	
CO4	
Subject: Mathematic for chemist	
CO1	
CO2	
CO3	
CO4	
6. Subject	**Biology for chemist**
CO1	
CO2	
CO3	
CO4	

Subject: Performance Management	
CO1	
CO2	
CO3	
CO4	
Subject: Consumer Behavior	
CO1	
CO2	
CO3	
CO4	
Subject: Marketing of Services	
CO1	Understand in detail the basic concepts of service sector and develop insight in marketing of
	services.
CO2	Appreciate the difference between marketing physical products and intangible services,
	including dealing with the extended services marketing mix.
CO3	Understand service consumer behavior in order to achieve sustainable customer value.
CO4	Understand importance of customer relationship in service delivery
IPS ACADEMY, INSTITUTE OF SCIENCE AND LAB EDUCATION(ISLE), INDORE	
Course Outcomes (CO)	
M.Sc. Chemistry Semester -II	
Subject: Inorganic Chemistry	
CO1	This course deals with the explanation of atomic and electronic structure of molecules
CO2	Course will discuss the synthetic preparation and structural elucidation of inorganic
	compounds
CO3	Students will be able to explain the structure and bonding in molecules and crystal
	structures.
CO4	Course deals with metal clusters and magnetic properties of transition metal complexes
CO1	To predict the reaction mechanism of various type of organic reaction like addition,
	substitution, elimination reaction
CO2	The planning and implementation of advanced organic reactions
CO3	To know the chemistry of different classes of organic compound used as precursor
	compound for the design and synthesis of new material.
CO4	Job in research and development in industry pharma companies, analytical associates,
	synthetic organic chemist.
Subject: Physical Chemistry	
CO1	This course will teach the fundamentals of Thermodynamics and Quantum mechanics.
CO2	Student will be able to design and understand theoretical chemistry software
CO3	Course will lead to the understanding of theory of molecular orbitals and their calculations.
CO4	Course will teach Schrodinger equation and the postulates of quantum mechanics.
Subject: Application spectroscopy	
CO1	Broad and detailed overview of state of art spectroscopic methods used in chemistry for
	structure elucidation and analysis of unknown samples.

CO2	. Description of the theory and combine concepts of techniques and applications of NMR,
	NQR and ESR spectroscopy
CO3	Fundamental and advanced knowledge about the interaction of electromagnetic radiations
	with matter and electron diffraction patterns.
CO4	Be able to solve problems related to the structure property purity and concentration of
	chemicals and to study molecular interpretation by choosing suitable spectroscopic
	methods and corresponding data.
Subject: Computer for chemist	
CO1	Gain knowledge to design & developed principles in the construction of software system of
	varying complexity.
CO2	Knowledge to use current techniques, skills & tools necessary for computing practicals
CO3	Use of Microsoft office program to create personal academic document according to
	industry & professional standard.
CO4	To knowledge of computer science to the identification, analysis & solution of chemistry
	problems
Subject: Performance Management	
CO1	To acquaint the students learning with the basic knowledge of objectives and importance of
	performance appraisal, Learn methods and techniques to appraise performance to maintain and
	develop the employee effectiveness.
CO2	To offer insights for performance management system, how a performance management system is
	designed in an organization for improved performance standards, systems and processes.
CO3	To acquaint the students with the concept of HRD - mechanism and to create effective workforce
	with enhanced abilities. To learn the various tools for identifying and mapping employee
	competencies.
CO4	To learn the behavioral performance management and OB modifications for developing the
	integrated framework of performance counseling capable of solving most of the problems
	confronting the human side of organizations
Subject: Consumer Behavior	
CO1	Apply basic concepts of consumer behavior to understand the market to create sales.
CO2	Understand consumer behavior in order to develop strategies to increase market share.
CO3	Understand Perception of Consumer Behavior to develop sales.
CO4	Understand Consumer Attitude about overall products sales
Subject: Marketing of Services	
CO1	Understand in detail the basic concepts of service sector and develop insight in marketing of
	services.
CO2	Appreciate the difference between marketing physical products and intangible services,
	including dealing with the extended services marketing mix.
CO3	Understand service consumer behavior in order to achieve sustainable customer value.
CO4	Understand importance of customer relationship in service delivery
IPS ACADEMY, DEPARTMENT OF CHEMISTRY(ISLE), INDORE	
Course Outcomes (CO)	
M.Sc. Chemistry Semester -III	
Subject: Application of Spectroscopy-I	
CO1	To study the basic aspects of various spectroscopic techniques e.g. Electronic,
	Vibration, NMR & Mossbauer spectroscopy
CO2	To impart knowledge of Electronic, Vibration, NMR, & Mossbauer spectroscopy & their
	applications

CO3	Use of different spectroscopic techniques in structure elucidation of organic and
	inorganic compounds & their shapes
CO4	Understand basic principles of spectroscopy where electromagnetic radiations interact
	with chemical substances.
Subject: Photochemistry	
CO1	To understand basic concept of Photochemistry & types of photochemical reactions
CO2	Understand photochemistry of organic compounds like Alkenes, carbonyl compounds &
	study of various miscellaneous photochemical reactions
CO3	Understand reaction mechanism of photochemical reactions & applications of
	photochemistry to organic synthesis
CO4	Study of various miscellaneous photochemical reactions.
Subject : Environmental Chemistry	
CO1	To understand different concepts of atmosphere, stratosphere and tropospheric chemistry,
	photochemical smog, acid rain, biogeochemical cycles and formation of oxides such as
	NOx, SOx, COx & radicals
CO2	Study of chemical processes taking place in earths, atmosphere, hydrosphere & to learn
	various types of pollution & their control methods
CO3	To understand structure of atmosphere, important chemical reactions in the atmosphere,
	types of pollution, ozone chemistry & disasters
CO4	Understand basic principles of Environmental Chemistry and interactions between different
	sectors of the environment (Air, Soil & Water) and effects of human activity on the natural
	chemical processes
Subject: organotransition chemistry	
CO1	Course imparts basic and advanced concepts in organ metallic chemistry, bonding in
	transition metal complexes, concepts of catalysis & fluxionality
CO2	Understand reactivity and reaction mechanism of various organ metallic
	compounds & multicenter bonding in different organotransition metal compounds
CO3	Explain throughout understanding of the relationship between the structure,
	chemical bonds and chemical properties of organometallic chemistry
CO4	Understand nucleophilic and electrophilic attack on ligands.
Subject: polymer	
CO1	Course provides basic concepts of polymers, characterization and analysis of polymers by
	various techniques.
CO2	Students gained thorough knowledge about organic and inorganic polymers.
CO3	Course provides an integrated view of polymer chemistry including chemical structure of
	various inorganic polymers, methods of measuring molecular weigh
CO4	Understand depth knowledge on different types of polymers & their properties, synthesis
	and application. Course will be helpful in plastic industries.
IPS ACADEMY, DEPARTMENT OF CHEMISTRY(ISLE), INDORE	
Course Outcomes (CO)	
M.Sc. Chemistry Semester -IV	
Subject: Application of Spectroscopy- II	
CO1	Use of spectroscopic terminology and concepts
CO2	Selection of most effective spectroscopic technique for a given task.
CO3	To analyze the experimental data to retrieve information about chemical and biological

	structures
CO4	Explain the UV-Visb., Raman, IR, NMR and Mass techniques, how it works and what
	information can be retrieved
Subject: Solid State chemistry	
CO1	Knowledge of understanding the material science problems.
CO2	Capabilities to understand the theory behind conducting properties of materia
CO3	Ability to analyze solid state reactions and conducting properties of material and apply this
	knowledge for the development of new conductors and devices.
CO4	Knowledge of crystal defects, conducting properties of metal, insulator, semiconductor,
	superconductors and magnetic moment measurements.
Subject: Biochemistry	
CO1	Describe the molecular & functional organization of a cell and it's components.
CO2	To give fundamentals of enzymes, their clinical applications and adverse effects of irregular
	enzymatic activity.
CO3	Molecular concepts of body defense and applications to new medicine development.
CO4	To in learning about pharmacology and medicinal chemistry
Subject: Analytical chemistry	
CO1	Able to assess and select suitable analytical method for analysis, have knowledge of
	sources of interferences/ errors, ability to select alternative methods for analysis.
CO2	Be familiar with the calculations of analytical chemistry, perform statistical evaluation of
	results and make scientific reports in scientific manner.
CO3	Able to understand the working principle of different analytical techniques and recognize
	their advantages and limitations. Able to measure the metals, proteins, medicinal and non-
	medicinal drugs in various samples
CO4	Able to work as a team member in collaboration with other fields such as biology,
	medicine, and environmental research
Subjects: Medicinal chemistry	
CO1	Gain knowledge of general structural features of therapeutic agents
CO2	Knowledge of structural influences on pharmacological action/ toxicology/ therapeutics.
CO3	Describe and perform the synthesis of selected drugs by different synthetic routes.
CO4	Able to describe the mechanism of action, use and mode of application of drugs
M.Sc. PHYSICS SEM I	
Paper I -MATHEMATICAL PHYSICS	
Special function and orthogonal curvilinear coordinate system.	
Fourier and Laplace transformation with application to solve differential equations.	
Greens function and its application to solve non-homogeneous equations.	
Complex variables with emphasis on evacuation integrals using residue theorem.	
PaperII- CLASSICAL MECHANICS	
CO1	Newton and Lagrange's mechanics. Hamilton's principle. Central Force Problem and
	equation of orbit
CO2	Hamilton Jacobi Equation.Principle of Least Action and Keplller's problem.
CO3	Small oscillations.Coriolis force.Inertia tensor.
CO4	Relativistic Mechnics.Space time continuam.Four vectors .Invariance of the laws of
	Physics.
Paper III-QUANTUM MECHANICS I	
CO1	Understanding the basic concepts of quantum mechanics mathematical tool,

	Schrödinger equation and its application to one dimensional problems.
CO2	Heisenberg formulation of quantum mechanics
CO3	Solution of time independent Schrodinger equation in 3-D problems .
CO4	Angular momentum and its addition and Representation theory.
Paper IV -ELECTRONIC DEVICES	
CO1	Field effect transistors, their principles and applications and microwave devices
CO2	photonic devices like LED, laser diode, photo detectors, solar cells etc and their
	working in detail.
CO3	memory devices and hybrid memories and storage devices.
CO4	Electro-optics, Magneto-optics and Acousto-optic effect and their application in
	sensors of actuator devices.
M.Sc. PHYSICS SEM II	
QUANTUM MECHANICS II	
CO1	approximation method for bound states and WKB approximation.
CO2	time dependent perturbation theory and its application to interaction of charged
	particle using EM field.
CO3	Quantum theory of scattering and related approximation on method.
CO4	Relativistic Klein Gordon and Dirac equations and application to atom.
STATISTICAL MECHANICS	
CO1	Macro and Micro states.Different types ofensembles.Liouville's theorem.Partition
	function
CO2	Maxwell –Boltzman, Fermi –Dirac and Bose –Einsteins systemsand their statistics.
CO3	Statistics of real systems .Ising Model.
CO4	Fluctuations and their explanation in statistical systems.
ELECTRODYNAMICS AND PLASMA PHYSICS	
CO1	Understand and apply the laws of electromagnetism and Maxwell's equations in
	different forms in different media also the concept of gauge transformation.
CO2	field of accelerated charged particles and review of four vectors and Lorentz
	transformation
CO3	Understand the origin of plasma, conditions of plasma formation and properties of
	plasma
CO4	domain of magneto hydrodynamics and plasma physics and their experimental study
ATOMIC AND MOLECULAR PHYSICS	
CO1	Understanding of the quantum states of the one electron atom and methods of molecular quantum mechanics.
CO2	Types of molecules and rotational spectra of diatomic molecule with their energy level and intensity of rotational lines
CO3	Vibrational energy of diatomic molecules with energy levels and spectrum. IR spectrometer
CO4	Introduction of different types of molecular spectroscopy.
M.Sc. PHYSICS SEM III	
CONDENSED MATTER PHYSICS I	
CO1	Bravais lattice and crystal structure.
CO2	crystal diffraction of X-Ray.
CO3	Elastic properties of solids, lattice vibrations and phonons.
CO4	Thermal properties and band theory of solids.
NUCLEAR AND PARTICLE PHYSICS	

CO1	
CO2	
CO3	
CO4	
DIGITAL ELECTRONICS	
CO1	
CO2	
CO3	
CO4	
ATOMIC AND MOLECULAR PHYSICS	
CO1	
CO2	
CO3	
CO4	
M.Sc. PHYSICS SEM IV	
CONDENSED MATTER PHYSICS II	
CO1	
CO2	
CO3	
CO4	
LASER PHYSICS	
CO1	
CO2	
CO3	
CO4	
COMPUTATIONAL METHODS AND PROGRAMMING	
CO1	
CO2	
CO3	
CO4	
MICROPROCESSOR AND MICROCONTROLLER	
CO1	
CO2	
CO3	
CO4	
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (CA) I YEAR	
Subject: Financial Accounting	
CO1	
CO2	
CO3	
CO4	
Subject: Business Mathematics	
CO1	

CO2	
CO3	
CO4	
Subject: Fundamental of computer and PC-Software	
CO1	This course introduces the concepts of computer fundamental & their applications for the
	efficient use of office technology.
CO2	Demonstrate the basic technicalities of creating Word documents, Create and design a
	spreadsheet for general office.
CO3	Demonstrate the basic technicalities of creating a PowerPoint presentation.
CO4	Basic knowledge of MIS and Internet.
Subject: DTP & Multimedia	
CO1	To acquire the basic concepts and understand the terminology related to desktop
	publishing, graphics and animation, and multimedia.
CO2	Learn the basics of successful design.
CO3	Learn the "language" of visual design.
CO4	Learn to apply basic design concepts to Commercial Design.
Subject: Business Law	
CO1	Identify the fundamental legal principles behind contractual agreement.
CO2	Able to understand basic knowledge of the important business legislation along with
	relevant case law.
CO3	Help to understand the knowledge of the legal environment & principles in which a
	consumer & business operates.
CO4	Help student to bind maintain legally enforceable relations and conduct business and non-
	business transactions.
Subject: Business Organization	
CO1	To understand the concepts of the business, organization and the various forms of
	organization.
CO2	To understand the promotion of business and its stages.
CO3	To make them understand the merits and demerits of multinational corporation.
CO4	To explain them modern forms of communication like fax, Emails, video conferencing etc.
Subject: Hindi	
CO1	Hkkjrh; fparu ijaijk vkSj Hkko&laink ls lk{kkRdkj ds vfrfjDr Hkk"kk dh egRrk vkSj mlds fofo/k
	#i fgUnh dh 'kCn laink] okD;&lajpuk] i=&ys[ku ,oa Hkko& iYyou dk fodkl gksxkA
CO2	Hkkjrh; laLd`frd vkSj fparu ijaijk ls ifjp; izklr dj visf{kr Kku dks fodflr djsaxsaA
CO3	Tkhou&ewY;] lekt&O;oLFkk] jk"Vªh; miyfC/k;ksa vkSj fodkl dh fn'kkvksa ls ifjfpr gksxsA
CO4	laizs"k.k dkS'ky dh fodkl ds lkFk&lkFk fofHkUu fo"k;ksa dh vk/kkjHkwr vo/kkj.kkvksa dks
	n`< djsxsa rFkk mUgksaus Hkk"kkxr v/;;u dh vksj mUeq[k gksxsaA vkn'kZ ukxfjd o l{ke
	ekuo gksxkA
Subject: English	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it's an eye opening for students and
	society.
CO2	Vocabulary building is the foundation of language, collection of words makes right impact
	on spoken and written language. Vocabulary is a key for successful communication.
CO3	This will help students to understand the rules of English language. Grammar lays the
	basics and correctness of English language.
CO4	This course enhances the writing skills and develops students to comprehend their writing
	and reading skills.

Subject: Entrepreneurship Development	
CO1	Understanding basic concepts in the area of entrepreneurship, the role and importance of
	entrepreneurship for economic development, developing personal creativity.
CO2	To understanding the stages of the entrepreneurial process and the resources needed for
	the successful development of entrepreneurial ventures.
CO3	Entrepreneurship and Innovation minors will be able to find problems worth solving.
	Students advance their skills in customer development, customer validation, competitive
	analysis, and iteration while utilizing design thinking and process tools to evaluate in real-
	world problems and projects.
CO4	Entrepreneurship and Innovation minors will be able to sell themselves and their ideas, find
	problems worth solving.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (CA) II YEAR	
Subject: Cost Accounting	
CO1	Explain the concept and role of cost accounting in the business management of
	manufacturing and non-manufacturing companies.
CO2	Define the unit costing, Contract, operating & Processing cost and their impact on value
	creation in the manufacturing and non-manufacturing companies.
CO3	Depth study of cost accounting systems and accumulation procedures and a search into
	the elements of material, labor and factory overhead costs.
CO4	Marginal costing and used for decision making and performance evaluation.
Subject: Corporate Accounting	
CO1	Able to understand the accounting procedure of Banking Companies and Insurance
	Company.
CO2	Helps to give an exposure to the Final Accounts of Companies and distribution of Profit &
	Loss of Pre Incorporation and Post Incorporation.
CO3	Gain knowledge about Valuation of Shares and Goodwill & got an idea of Liquidation of
	Companies.
CO4	Able to understand the knowledge of Holding & Subsidiary Company and learned
	accounting procedure for Amalgamation and Reconstruction.
Subject: Principles of Statistics	
CO1	Be statistically and numerically literate.
CO2	Have statistical concepts such as statistical collection, species characteristics, statistical
	series, tabular and graphical representation of data.
CO3	Be able to independently read statistical literature of various types, including survey
	articles, scholarly books, and online sources.
CO4	be able independently to calculate basic statistical parameters (mean, measures of
	dispersion, correlation coefficient, indexes etc.
Subject: Principles of Management	
CO1	Identify and evaluate social responsibility and ethical issues involved in business situations.
CO2	Evaluate leadership styles to anticipate the consequences of each leadership style.
CO3	Practice the process of management's functions: planning, organizing, leading, and
	controlling etc.
CO4	Explain the basic control process and monitoring points and describe the different levels
	and types of control.
Subject: DBMS	

CO1	To acquire the basic concepts and understand the applications of database system.
CO2	To construct an Entity-Relationship (E-R) model from specifications and to transform to
	relational model.
CO3	To construct SQL queries to perform CRUD operations on database. (Create, Retrieve,
	Update, Delete)
CO4	Understand and apply database normalization principles.
Subject: Internet and E-Commerce	
CO1	To understand the basic concept of internet & functional knowledge in the field of computer
	application.
CO2	Demonstrate an understanding of the foundations and importance of E-commerce.
CO3	Analyze the impact of E-commerce on business models and strategy by e-marketing
	trends.
CO4	Assess electronic payment systems and security measure.
Subject: Hindi	
CO1	;qok 'kfDr dks oSf'od ekudksa dh dlkSVh ij [kjk dapu ln`'k cukuk gksA Kku gh og lk/ku gS]
	tks ekuo lalk/kuksa dks mnkUu ewY;] izHkko'kkyh O;fDrRo vkSj lkFkZd vfLrRo iznku djus
	esa l{ke gS A
CO2	vkt dh izfrLi/kkZRed thou 'kSyh esa ,d Nk= dks i;kZIr vkRefo'okl o laizs"k.kh;rk dks 'kfDr
	iznku djus esa vk/kkj ikB~;dze dh lajpuk vR;ar vk/kkj Hkwr ladYiuk dh Hkwfedk vnk
	djssxhA
CO3	lkFkZd l{ke tkx:d ukxfjd cudj jk"Vª fuekZ.k dh vn~Hkqr vfuok;Z dM+h cusxsaA
CO4	laizs"k.kh;rk ds iz{ksikL= dk lVhd iz;ksx djds og thou ds gj {ks= esa oakfNr izHkko ,oa
	lQyrk izkIr djsxsaA
Subject: English	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it will help students to update and increase
	their vocabulary and sentence formation pertaining to all walks of life.
CO2	Students will be able to form the sentence grammatically correct by following the rules and
	concepts of grammar pertaining to tenses, articles, nouns, pronoun, determiners and
	verbs.
CO3	Students will be able to comprehend and write an essay in a proper structure –
	Introduction, main body and the conclusion. They will be able to compose different types of
	formal and informal letters. While writing letter students adopt different strategies so that
	the letter serves the intended purpose and is not misunderstood.
CO4	Students will be able to achieve the goal of perfect translation by getting proficiency at both
	the source language and the target language. They differentiate between sense translation
	and literal translation.
Subject: Environmental Studies	
CO1	Understand the natural environment as a system and how human enterprise affects that
	system.
CO2	An environmental studies course advances a student's knowledge in a variety of current
	issues such as energy, pollution and environmental awareness.
CO3	Course covers how to evaluate and address environmental problems and environmental
	studies Include forest ecology, energy efficiency in buildings. Sustainable practices,
	harnessing eco- friendly power sources and political ecology.
CO4	Object of course is to address the role of regulation on environment, how social &
	economical conditions affect ecological issues & major environmental challenges.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	

Course Outcomes (CO)	
BCOM (CA) V SEM	
Subject: Income Tax Law & Practice	
CO1	To provide students with a working knowledge of the fundamental tax principles and rules
	that applies to commonly encountered transactions undertaken by individuals.
CO2	To know the process of determined residential status.
CO3	Understanding of Heads and types of income.
CO4	Analyze the assessment procedure and representation before appropriate authorities under
	the law.
Subject: Management accounting	
CO1	Apply managerial accounting and its objectives in a way that demonstrates a clear
	understanding of ethical responsibilities.
CO2	Apply and analyze different types of activity-based management tools through the
	preparation of estimates.
CO3	Analyze cost-volume-profit techniques to determine optimal managerial decisions.
CO4	Prepare a master budget and demonstrate an understanding of the relationship between
	the components and prepare analyses of various special decisions, using relevant costing
	and benefits.
Subject: Internet Technology & Introduction to E-Commerce	
CO1	To provide an introduction to the fundamental concept on data communication and the
	basic knowledge of computer network.
CO2	To get familiarized with the basic protocol of computer network.
CO3	To develop an understanding of scope of E-Commerce.
CO4	To develop an understanding of electronic market and electronic data interchange.
Subject: Moral Value and Hindi Language and English	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
CO4	The students will earn competency in LSRW skills; that help them to improve
	communication in both the languages. This will prepare them to participate in competitive
	examination. They will be able to write persuasive resume.
Subject: Basics of Computer & Information Technology – I	
CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware and s/w components that make up a computer's
	system and the role of each of these components.
CO3	Information technology (IT) is the use of computers to organize, word processing, store,
	retrieve, transmit, and manipulate data or information, often in the context of a business or
	other enterprise.
CO4	Use of various operating systems and Differentiate among various operating systems.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (CA) VI SEM	
Subject: Indirect Tax	
CO1	To introduce the basic concept of Indirect Tax. To familiarize the concept of Central Excise
	Duty & its classification. To Understand the valuation rules under central excise act.

CO2	Make the students familiarizes with the concept of Custom Duty and its provisions. It gives
	more practical knowledge to computation of assessable value & calculation of Custom
	Duty.
CO3	Make the students familiarizes with the concept of Central Sales Tax and its provisions. It
	give more practical knowledge to computation of Taxable Turnover & calculation of Central
	Sales Tax. Make the students familiarizes with the concept of M.P.VAT and its provisions.
	It give more practical knowledge to computation of Taxable Turnover & calculation of
	M.P.VAT.
CO4	Make the students familiarizes with the concept of Service Tax and its provisions. It gives
	more practical knowledge to computation of Taxable Service & calculation of Service Tax.
Subject: Auditing	
CO1	Able to understand and familiarize with the principles, procedure and techniques of
	Auditing.
CO2	Help to understand the Audit Program, Internal check system & Verification of Assets and
	liabilities.
CO3	Able to understand the duties and responsibilities of Company Auditor, Auditor's report
	and Vouching.
CO4	Get knowledge about Investigation and able to understand the process of special audit
	Banking, Insurance, Educational and Non -Profit Institution.
Subject: Visual Basic	
CO1	Students gain knowledge in the basic concepts of event driven programming.
CO2	Build skills to develop basic applications using VB.
CO3	Understand and code Event-Driven procedures.
CO4	Develop a GUI which is capable store and retrieve data by using VB with MS-Access.
Subject: Moral Value and Hindi Language and English	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
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	might develop understanding of social and historical surroundings .They may acquire
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	system and the role of each of these components.
CO3	Information technology (IT) is the use of computers to organize, word processing, store,
	retrieve, transmit, and manipulate data or information, often in the context of a business or
	other enterprise.
CO4	Use of various operating systems and Differentiate among various operating systems.
	DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE
	Course Outcomes (CO)
BCOM (FT) I YEAR	
Subject: Financial Accounting	
CO1	Explain the purpose of double entry system to understanding the accounting system
	properly. Record journal entries bookkeeping and Prepare ledger accounts using double
	entry accordingly. Preparation of trial balance, ratification of errors and final accounts.

CO2	To understand the aspects of Accounting Standards in modern scenario Specially AS-6 &
	AS-10. To familiarize the concept of Branch account and Scope of departmental
	accounting.
CO3	To understand the concept of royalty and its benefits. To deputize the concept of joint
	venture and Investment & accounting for it.
CO4	Getting acquainted with the consignment accounts & its usage. Enable the students to
	understand partnership account from dissolution including Insolvency to Amalgamation of
	firms & Conversion of firm into Company.
Subject: Business Mathematics	
CO1	Have basic knowledge in the areas of business calculus and financial mathematics.
CO2	Be able to work with simple and compound interest, annuities, pricing, invoice preparation,
	trade discounts, taxes, and depreciation problems in various situations and use correct
	mathematical terminology.
CO3	Be able to understand and use equations, formulae, and mathematical expressions and
	relationships in a variety of contexts.
CO4	Apply the knowledge in mathematics (matrices, percentage, ratio- proportion, averages) in
	solving business problems.
Subject: Basics of Foreign Trade	
CO1	Ability to understand foreign trade and its theories.
CO2	Able to understand trade policy instruments such as tariffs, quotas, retaliatory measures
	like anti-dumping duties, countervailing duties.
CO3	Understanding concept of exchange control and determining exchange rate.
CO4	Be familiar with the major recent development in International economic institutions.
Subject: India's Foreign Trade	
CO1	Explore in-depth knowledge of exports, imports and trade deficit under five year plans.
CO2	Acquiring knowledge on role of government and other organizations in promoting foreign
	trade.
CO3	Understanding the significance of Balance of Payment and its components for a country.
CO4	Awareness of export assistance measures and various schemes of government.
Subject: Business Law	
CO1	Identify the fundamental legal principles behind contractual agreement.
CO2	Able to understand basic knowledge of the important business legislation along with
	relevant case law.
CO3	Help to understand the knowledge of the legal environment & principles in which a
	consumer & business operates.
CO4	Help student to bind maintain legally enforceable relations and conduct business and non-
	business transactions.
Subject: Business Organization	
CO1	To understand the concepts of the business, organization and the various forms of
	organization.
CO2	To understand the promotion of business and its stages.
CO3	To make them understand the merits and demerits of multinational corporation.
CO4	To explain them modern forms of communication like fax, Emails, video conferencing etc.
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	#i fgUnh dh 'kCn laink] okD;&lajpuk] i=&ys[ku ,oa Hkko& iYyou dk fodkl gksxkA
CO2	Hkkjrh; laLd`frd vkSj fparu ijaijk ls ifjp; izklr dj visf{kr Kku dks fodflr djsaxsaA
CO3	Tkhou&ewY;] lekt&O;oLFkk] jk"Vªh; miyfC/k;ksa vkSj fodkl dh fn'kkvksa ls ifjfpr gksxsA

CO4	laizs"k.k dkS'ky dh fodkl ds lkFk&lkFk fofHkUu fo"k;ksa dh vk/kkjHkwr vo/kkj.kkvksa dks
	n`< djsxsa rFkk mUgksaus Hkk"kkxr v/;;u dh vksj mUeq[k gksxsaA vkn'kZ ukxfjd o l{ke
	ekuo gksxkA
Subject: English	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it's an eye opening for students and
	society.
CO2	Vocabulary building is the foundation of language, collection of words makes right impact
	on spoken and written language. Vocabulary is a key for successful communication.
CO3	This will help students to understand the rules of English language. Grammar lays the
	basics and correctness of English language.
CO4	This course enhances the writing skills and develops students to comprehend their writing
	and reading skills.
Subject: Entrepreneurship Development	
CO1	Understanding basic concepts in the area of entrepreneurship, the role and importance of
	entrepreneurship for economic development, developing personal creativity.
CO2	To understanding the stages of the entrepreneurial process and the resources needed for
	the successful development of entrepreneurial ventures.
CO3	Entrepreneurship and Innovation minors will be able to find problems worth solving.
	Students advance their skills in customer development, customer validation, competitive
	analysis, and iteration while utilizing design thinking and process tools to evaluate in real-
	world problems and projects.
CO4	Entrepreneurship and Innovation minors will be able to sell themselves and their ideas, find
	problems worth solving.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (FT) II YEAR	
Subject: Cost Accounting	
CO1	Explain the concept and role of cost accounting in the business management of
	manufacturing and non-manufacturing companies.
CO2	Define the unit costing, Contract, operating & Processing cost and their impact on value
	creation in the manufacturing and non-manufacturing companies.
CO3	Depth study of cost accounting systems and accumulation procedures and a search into
	the elements of material, labor and factory overhead costs.
CO4	Marginal costing and used for decision making and performance evaluation.
Subject: Corporate Accounting	
CO1	Able to understand the accounting procedure of Banking Companies and Insurance
	Company.
CO2	Helps to give an exposure to the Final Accounts of Companies and distribution of Profit &
	Loss of Pre Incorporation and Post Incorporation.
CO3	Gain knowledge about Valuation of Shares and Goodwill & got an idea of Liquidation of
	Companies.
CO4	Able to understand the knowledge of Holding & Subsidiary Company and learned
	accounting procedure for Amalgamation and Reconstruction.
Subject: Principles of Statistics	
CO1	Be statistically and numerically literate.
CO2	Have statistical concepts such as statistical collection, species characteristics, statistical

	series, tabular and graphical representation of data.
CO3	Be able to independently read statistical literature of various types, including survey
	articles, scholarly books, and online sources.
CO4	be able independently to calculate basic statistical parameters (mean, measures of
	dispersion, correlation coefficient, indexes etc.
Subject: Principles of Management	
CO1	Identify and evaluate social responsibility and ethical issues involved in business situations.
CO2	Evaluate leadership styles to anticipate the consequences of each leadership style.
CO3	Practice the process of management's functions: planning, organizing, leading, and
	controlling etc.
CO4	Explain the basic control process and monitoring points and describe the different levels
	and types of control.
Subject: Foreign Trade Financing and Procedures	
CO1	Understanding the various methods of Payments in International market.
CO2	Significance of various financial institutions for promoting exports in the country.
CO3	Provides conceptual knowledge for obtaining credit for exports.
CO4	Understanding the concept of foreign exchange control system of India.
Subject: Elements of export marketing	
CO1	Acquiring knowledge and scope of export marketing.
CO2	Understanding and developing of export products.
CO3	Acquiring knowledge regarding settlement of disputes at international level.
CO4	Classification of channels of distribution and promotional activities in international market.
Subject: Hindi	
CO1	;qok 'kfDr dks oSf'od ekudksa dh dlkSVh ij [kjk dapu ln`'k cukuk gksA Kku gh og lk/ku gS]
	tks ekuo lalk/kuksa dks mnkUu ewY;] izHkko'kkyh O;fDrRo vkSj lkFkZd vfLrRo iznku djus
	esa l{ke gS A
CO2	vkt dh izfrLi/kkZRed thou 'kSyh esa ,d Nk= dks i;kZIr vkRefo'okl o laizs"k.kh;rk dks 'kfDr
	iznku djus esa vk/kkj ikB~;dze dh lajpuk vR;ar vk/kkj Hkwr ladYiuk dh Hkwfedk vnk
	djssxhA
CO3	lkFkZd l{ke tkx:d ukxfjd cudj jk"Vª fuekZ.k dh vn~Hkqr vfuok;Z dM+h cusxsaA
CO4	laizs"k.kh;rk ds iz{ksikL= dk lVhd iz;ksx djds og thou ds gj {ks= esa oakfNr izHkko ,oa
	lQyrk izkIr djsxsaA
Subject: English	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it will help students to update and increase
	their vocabulary and sentence formation pertaining to all walks of life.
CO2	Students will be able to form the sentence grammatically correct by following the rules and
	concepts of grammar pertaining to tenses, articles, nouns, pronoun, determiners and
	verbs.
CO3	Students will be able to comprehend and write an essay in a proper structure –
	Introduction, main body and the conclusion. They will be able to compose different types of
	formal and informal letters. While writing letter students adopt different strategies so that
	the letter serves the intended purpose and is not misunderstood.
CO4	Students will be able to achieve the goal of perfect translation by getting proficiency at both
	the source language and the target language. They differentiate between sense translation
	and literal translation.
Subject: Environmental Studies	

CO1	Understand the natural environment as a system and how human enterprise affects that
	system.
CO2	An environmental studies course advances a student's knowledge in a variety of current
	issues such as energy, pollution and environmental awareness.
CO3	Course covers how to evaluate and address environmental problems and environmental
	studies Include forest ecology, energy efficiency in buildings. Sustainable practices,
	harnessing eco- friendly power sources and political ecology.
CO4	Object of course is to address the role of regulation on environment, how social &
	economical conditions affect ecological issues & major environmental challenges.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (FT) V SEM	
Subject: Income Tax Law & Practice	
CO1	To provide students with a working knowledge of the fundamental tax principles and rules
	that applies to commonly encountered transactions undertaken by individuals.
CO2	To know the process of determined residential status.
CO3	Understanding of Heads and types of income.
CO4	Analyze the assessment procedure and representation before appropriate authorities under
	the law.
Subject: Management accounting	
CO1	Apply managerial accounting and its objectives in a way that demonstrates a clear
	understanding of ethical responsibilities.
CO2	Apply and analyze different types of activity-based management tools through the
	preparation of estimates.
CO3	Analyze cost-volume-profit techniques to determine optimal managerial decisions.
CO4	Prepare a master budget and demonstrate an understanding of the relationship between
	the components and prepare analyses of various special decisions, using relevant costing
	and benefits.
Subject: Shipping, Insurance and Documentation	
CO1	Demonstrate knowledge and understanding in the field of shipping and maritime
	management, structure and operation.
CO2	Describe the functions of shipping companies; analyze daily running costs and cargo
	insurance.
CO3	Understand cargoes and containerization markets and identify the regulatory and legal
	shipping environment.
CO4	Identify, describe and critically analyze the major issues in the management of ports and
	handling of cargoes and documentation involved.
Subject: Moral Value and Hindi Language and English	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
CO4	The students will earn competency in LSRW skills; that help them to improve
	communication in both the languages. This will prepare them to participate in competitive
	examination. They will be able to write persuasive resume.
Subject: Basics of Computer & Information Technology – I	

CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware and s/w components that make up a computer's
	system and the role of each of these components.
CO3	Information technology (IT) is the use of computers to organize, word processing, store,
	retrieve, transmit, and manipulate data or information, often in the context of a business or
	other enterprise.
CO4	Use of various operating systems and Differentiate among various operating systems.
	DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE
	Course Outcomes (CO)
BCOM (FT) VI SEM	
Subject: Indirect Tax	
CO1	To introduce the basic concept of Indirect Tax. To familiarize the concept of Central Excise
	Duty & its classification. To Understand the valuation rules under central excise act.
CO2	Make the students familiarizes with the concept of Custom Duty and its provisions. It gives
	more practical knowledge to computation of assessable value & calculation of Custom
	Duty.
CO3	Make the students familiarizes with the concept of Central Sales Tax and its provisions. It
	give more practical knowledge to computation of Taxable Turnover & calculation of Central
	Sales Tax. Make the students familiarizes with the concept of M.P.VAT and its provisions.
	It give more practical knowledge to computation of Taxable Turnover & calculation of
	M.P.VAT.
CO4	Make the students familiarizes with the concept of Service Tax and its provisions. It gives
	more practical knowledge to computation of Taxable Service & calculation of Service Tax.
Subject: Auditing	
CO1	Able to understand and familiarize with the principles, procedure and techniques of
	Auditing.
CO2	Help to understand the Audit Program, Internal check system & Verification of Assets and
	liabilities.
CO3	Able to understand the duties and responsibilities of Company Auditor, Auditor's report
	and Vouching.
CO4	Get knowledge about Investigation and able to understand the process of special audit
	Banking, Insurance, Educational and Non -Profit Institution.
Subject: Entrepreneurship Development	
CO1	Understanding basic concepts in the area of entrepreneurship, the psychological of
	entrepreneurship for economic development, developing personal creativity.
CO2	Entrepreneurship and Innovation students will be able to sell themselves and their ideas,
	find.
CO3	To knowledge of entrepreneurship training and development programmers.
CO4	To understanding the stages of the entrepreneurship Planning and evaluation of
	development Programmers of entrepreneurial ventures.
Subject: Moral Value and Hindi Language and English	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
CO4	The students will earn competency in LSRW skills; that help them to improve
	communication in both the languages. This will prepare them to participate in competitive

	examination. They will be able to write persuasive resume.
Subject: Basics of Computer & Information Technology – I	
CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware and s/w components that make up a computer's
	system and the role of each of these components.
CO3	
	Information technology (IT) is the use of computers to organize, word processing, store,
	retrieve, transmit, and manipulate data or information, often in the context of a business or
	other enterprise.
CO4	Use of various operating systems and Differentiate among various operating systems.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (HONS) I YEAR	
Subject: Financial Accounting	
CO1	Explain the purpose of double entry system to understanding the accounting system
	properly. Record journal entries accordingly and Prepare ledger accounts using double
	entry bookkeeping. Preparation of trial balance, Types of Cash Books and To understand
	the aspects of Accounting Standards in modern scenario.
CO2	Preparation final accounts & Bank reconciliation statement from incomplete statement. To
	understand the aspects of depreciation accounting as per AS-6 & its needs. Prepare final
	accounts from incomplete records.
CO3	To understand the law & accounting regarding Insolvency. To understand the Scope of
	departmental accounting.
CO4	To familiarize the concept of Branch account and its system. Enable the students to
	understand partnership account from admission to dissolution including Insolvency &
	Conversion of firm into company.
Subject: Business Mathematics	
CO1	Have basic knowledge in the areas of business calculus and financial mathematics.
CO2	Apply the knowledge in mathematics (Set theory, percentage, ratio- proportion, averages)
	in solving business problems.
CO3	Be able to work with simple and compound interest, annuities, trade discounts, true
	discount, and banker's discount problems in various situations and use correct
	mathematical terminology.
CO4	Be able to understand and use Simultaneous equations and Quadratic equations in variety
	of contexts.
Subject: Managerial Economics	
CO1	Learn how to techniques and theories of managerial economics can be used to explain how
	firms and consumers behave.
CO2	To integrate the basic concept of economics with tools of mathematics and statistics in
	order to analyze and make optimal business decision.
CO3	Understand the internal and external decision to be made by managers.
CO4	understand the internal and external decision to be made by managers.different cost of production and how they affect short and long run decision.
Subject: Macro economics	
CO1	Learning how to use economic models, mathematics in common economic application.
CO2	Understanding the society's trade – off by using production possibilities.

CO3	Learn to calculate other elasticity using common economic variables.
CO4	Learn critique of the unemployment rate measure of the problem and differentiate between
	different types of unemployment.
Subject: Principles of Management	
CO1	Identify and evaluate social responsibility and ethical issues involved in business
	situations.
CO2	Evaluate leadership styles to anticipate the consequences of each leadership style.
CO3	Practice the process of management's functions: planning, organizing, leading, and
	controlling etc.
CO4	Explain the basic control process and monitoring points and describe the different levels
	and types of control.
Subject: Business Organization	
CO1	To understand the concepts of the business, organization and the various forms of
	organization.
CO2	To understand the promotion of business and its stages.
CO3	To make them understand the merits and demerits of multinational corporation.
CO4	To explain them modern forms of communication like fax, Emails, video conferencing etc.
Subject: Hindi	
CO1	Hkkjrh; fparu ijaijk vkSj Hkko&laink ls lk{kkRdkj ds vfrfjDr Hkk"kk dh egRrk vkSj mlds fofo/k
	#i fgUnh dh 'kCn laink] okD;&lajpuk] i=&ys[ku ,oa Hkko& iYyou dk fodkl gksxkA
CO2	Hkkjrh; laLd`frd vkSj fparu ijaijk ls ifjp; izklr dj visf{kr Kku dks fodflr djsaxsaA
CO3	Tkhou&ewY;] lekt&O;oLFkk] jk"Vªh; miyfC/k;ksa vkSj fodkl dh fn'kkvksa ls ifjfpr gksxsA
CO4	laizs"k.k dkS'ky dh fodkl ds lkFk&lkFk fofHkUu fo"k;ksa dh vk/kkjHkwr vo/kkj.kkvksa dks
	n`< djsxsa rFkk mUgksaus Hkk"kkxr v/;;u dh vksj mUeq[k gksxsaA vkn'kZ ukxfjd o l{ke
	ekuo gksxkA
Subject: English	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it's an eye opening for students and
	society.
CO2	Vocabulary building is the foundation of language, collection of words makes right impact
	on spoken and written language. Vocabulary is a key for successful communication.
CO3	This will help students to understand the rules of English language. Grammar lays the
	basics and correctness of English language.
CO4	This course enhances the writing skills and develops students to comprehend their writing
	and reading skills.
Subject: Entrepreneurship Development	
CO1	Understanding basic concepts in the area of entrepreneurship, the role and importance of
	entrepreneurship for economic development, developing personal creativity.
CO2	To understanding the stages of the entrepreneurial process and the resources needed for
	the successful development of entrepreneurial ventures.
CO3	Entrepreneurship and Innovation minors will be able to find problems worth solving.
	Students advance their skills in customer development, customer validation, competitive
	analysis, and iteration while utilizing design thinking and process tools to evaluate in real-
	world problems and projects.
CO4	Entrepreneurship and Innovation minors will be able to sell themselves and their ideas, find
	problems worth solving.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	

BCOM (HONS) II YEAR	
Subject: Advance Accounting and Practice	
CO1	Explain the objectives of not-for-profit organizations, banking and insurance company and
	account for these organizations.
CO2	Describe the financial reporting objectives for government and discuss the reporting issues
	relevant to government.
CO3	Demonstrate the ability to assess a situation, identify issues and alternatives, and provide
	a recommendation using advanced accounting knowledge and ethical professional
	judgment.
CO4	Develop competency in advanced accounting procedures in preparation for a professional
	career in accounting.
Subject: Corporate Accounting	
CO1	Able to understand the procedure of Issue of Shares & Debentures and its redemption.
CO2	Helps to give an exposure to the Final Accounts of Companies and distribution of Profit &
	Loss of Pre Incorporation and Post Incorporation.
CO3	Gain knowledge about Valuation of Shares and Goodwill & got an idea of Liquidation of
	Companies.
CO4	Able to understand the knowledge of Holding & Subsidiary Company and learned
	accounting procedure for Amalgamation and Reconstruction.
Subject: Advanced Statistics	
CO1	Be statistically and numerically literate.
CO2	Have statistical concepts such as statistical collection, species characteristics, statistical
	series, tabular and graphical representation of data.
CO3	be able independently to calculate basic statistical parameters (mean, measures of
	dispersion, correlation coefficient, indexes etc.
CO4	Be able to understand statistical concepts to include measurements of location and
	dispersion, probability & distributions, sampling, estimation, hypothesis testing,
	regression, and correlation analysis, regression coefficients and their properties.
Subject: Financial Management	
CO1	This course is designed to enhance the understanding of the fundamental concepts of
	finance including time value, capital budgeting and the cost of capital, working capital
	management.
CO2	To enable the students to understand the importance of the subject through analysis and
	interpretation of financial statements & Application of Various Calculative Tools.
CO3	Apply financial management concepts and tools to the decisions faced by a manager in
	investment decisions.
CO4	Apply financial management concepts and tools to the financing decisions and dividend
	decisions faced by the firm.
Subject: Marketing Management	
CO1	To develop an idea about marketing and its functions. To understand the marketing concept
	in modern business environment. To enhance the students on consumer behavior.
CO2	To deputize the concept of market segmentation & its importance. To familiarize students
	about product and its classifications.
CO3	To make them understand pricing policies. Getting acquainted with the distribution
	channels & its types.
CO4	To understand the aspects of Sales Promotion & its need. To introduce the concept of
	personal selling & functions of salesman. To enhance the students on Public relation & its
	signification.

Subject: Public Finance	
CO1	Be able to understand the concept of public and private finance.
CO2	Identify the types of public needs, Classify public revenues and expenditures through the
	budget and to analyze the instruments and objectives of budgetary policy.
CO3	Argue the theoretical basis of public expenditures and to analyze their types and economic
	effects.
CO4	Discuss current public policy, Centre State relationship, key issues and challenges in
	fiscal policy in a particular country context.
Subject: Hindi	
CO1	;qok 'kfDr dks oSf'od ekudksa dh dlkSVh ij [kjk dapu ln`'k cukuk gksA Kku gh og lk/ku gS]
	tks ekuo lalk/kuksa dks mnkUu ewY;] izHkko'kkyh O;fDrRo vkSj lkFkZd vfLrRo iznku djus
	esa l{ke gS A
CO2	vkt dh izfrLi/kkZRed thou 'kSyh esa ,d Nk= dks i;kZIr vkRefo'okl o laizs"k.kh;rk dks 'kfDr
	iznku djus esa vk/kkj ikB~;dze dh lajpuk vR;ar vk/kkj Hkwr ladYiuk dh Hkwfedk vnk
	djssxhA
CO3	lkFkZd l{ke tkx:d ukxfjd cudj jk"Vª fuekZ.k dh vn~Hkqr vfuok;Z dM+h cusxsaA
CO4	laizs"k.kh;rk ds iz{ksikL= dk lVhd iz;ksx djds og thou ds gj {ks= esa oakfNr izHkko ,oa
	lQyrk izkIr djsxsaA
Subject: English	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it will help students to update and increase
	their vocabulary and sentence formation pertaining to all walks of life.
CO2	Students will be able to form the sentence grammatically correct by following the rules and
	concepts of grammar pertaining to tenses, articles, nouns, pronoun, determiners and
	verbs.
CO3	Students will be able to comprehend and write an essay in a proper structure –
	Introduction, main body and the conclusion. They will be able to compose different types of
	formal and informal letters. While writing letter students adopt different strategies so that
	the letter serves the intended purpose and is not misunderstood.
CO4	Students will be able to achieve the goal of perfect translation by getting proficiency at both
	the source language and the target language. They differentiate between sense translation
	and literal translation.
Subject: Environmental Studies	
CO1	Understand the natural environment as a system and how human enterprise affects that
	system.
CO2	An environmental studies course advances a student's knowledge in a variety of current
	issues such as energy, pollution and environmental awareness.
CO3	Course covers how to evaluate and address environmental problems and environmental
	studies Include forest ecology, energy efficiency in buildings. Sustainable practices,
	harnessing eco- friendly power sources and political ecology.
CO4	Object of course is to address the role of regulation on environment, how social &
	economical conditions affect ecological issues & major environmental challenges.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (HONS) V SEM	
Subject: Income Tax Law & Practice	
CO1	To provide students with a working knowledge of the fundamental tax principles and rules
	that applies to commonly encountered transactions undertaken by individuals.

CO2	To know the process of determined residential status.
CO3	Understanding of Heads and types of income.
CO4	Analyze the assessment procedure and representation before appropriate authorities under
	the law.
Subject: Auditing	
CO1	Able to understand and familiarize with the principles, procedure and techniques of
	Auditing.
CO2	Help to understand the Audit Program, Internal check system & Verification of Assets and
	liabilities.
CO3	Able to understand the duties and responsibilities of Company Auditor, Auditor's report
	and Vouching.
CO4	Get knowledge about recent trends in Auditing and basic consideration of Audit in EDP
	environment.
Subject: Marketing concept and consumer behavior	
CO1	Understanding about the concept of marketing strategies and its significance.
CO2	Understanding the significance of consumer and their behavior.
CO3	Able to understand the concept of products and its packing as well as the importance of
	branding.
CO4	Understanding the significance of price in marketing.
Subject: Moral Value and Hindi Language and English	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
CO4	The students will earn competency in LSRW skills; that help them to improve
	communication in both the languages. This will prepare them to participate in competitive
	examination. They will be able to write persuasive resume.
Subject: Basics of Computer & Information Technology – I	
CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware and s/w components that make up a computer's
	system and the role of each of these components.
CO3	Information technology (IT) is the use of computers to organize, word processing, store,
	retrieve, transmit, and manipulate data or information, often in the context of a business or
	other enterprise.
CO4	Use of various operating systems and Differentiate among various operating systems.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (HONS) VI SEM	
Subject: Indirect Tax	
CO1	To introduce the basic concept of Indirect Tax. To familiarize the concept of Central Excise
	Duty & its classification. To Understand the valuation rules under central excise act.
CO2	Make the students familiarizes with the concept of Custom Duty and its provisions. It gives
	more practical knowledge to computation of assessable value & calculation of Custom
	Duty.
CO3	Make the students familiarizes with the concept of Central Sales Tax and its provisions. It
	gives more practical knowledge to computation of Taxable Turnover & calculation of Central
	Sales Tax. Make the students familiarizes with the concept of M.P.VAT and its provisions.

	It gives more practical knowledge to computation of Taxable Turnover & calculation of
	M.P.VAT.
CO4	Make the students familiarizes with the concept of Service Tax and its provisions. It gives
	more practical knowledge to computation of Taxable Service & calculation of Service Tax.
Subject: Management accounting	
CO1	Apply managerial accounting and its objectives in a way that demonstrates a clear
	understanding of ethical responsibilities.
CO2	Apply and analyze different types of activity-based management tools through the
	preparation of estimates.
CO3	Analyze cost-volume-profit techniques to determine optimal managerial decisions.
CO4	Prepare a master budget and demonstrate an understanding of the relationship between
	the components and prepare analyses of various special decisions, using relevant costing
	and benefits.
Subject: E-Commerce	
CO1	To understand the basic concept of internet & functional knowledge in the field of computer
	application.
CO2	Demonstrate an understanding of the foundations and importance of E-commerce.
CO3	Analyze the impact of E-commerce on business models and strategy by e-marketing
	trends.
CO4	Assess electronic payment systems and security measure.
Subject: Moral Value and Hindi Language and English	
CO1	vkt dh izfrLi/kkZRed thou 'kSyh esa ,d Nk= dks i;kZIr vkRefo'okl o laizs"k.kh;rk dh 'kfDr
	iznku djus esa vk/kkj ikB~;dze dh lajpuk vR;ar vk/kkjHkwr ladYiuk dh Hkwfedk vnk djsxhA
CO2	fizaV] bysDVªkfud ,oa lks'ky ehfM;k dk mi;ksx lgh rjhds ls dj ik;saxsaA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
CO4	The students will earn competency in LSRW skills; that help them to improve
	communication in both the languages. This will prepare them to participate in competitive
	examination.
Subject: Basics of Computer & Information Technology – I	
CO1	Students gain knowledge in the basic concepts of word processing.
CO2	Build skills to develop basic applications and develop power point .representation.
CO3	Understand and code Event-Driven procedures with protocols.
CO4	Develop a GUI which is capable store and retrieve data from worksheet.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (PLAIN) I YEAR	
Subject: Financial Accounting	
CO1	Explain the purpose of double entry system to understanding the accounting system
	properly. Record journal entries bookkeeping and Prepare ledger accounts using double
	entry accordingly. Preparation of trial balance, ratification of errors and final accounts.
CO2	To understand the aspects of Accounting Standards in modern scenario Specially AS-6 &
	AS-10. To familiarize the concept of Branch account and Scope of departmental
	accounting.
CO3	To understand the concept of royalty and its benefits. To deputize the concept of joint
	venture and Investment & accounting for it.
CO4	Getting acquainted with the consignment accounts & its usage. Enable the students to

	understand partnership account from dissolution including Insolvency to Amalgamation of
	firms & Conversion of firm into Company.
Subject: Business Mathematics	
CO1	Have basic knowledge in the areas of business calculus and financial mathematics.
CO2	Be able to work with simple and compound interest, annuities, pricing, invoice preparation,
	trade discounts, taxes, and depreciation problems in various situations and use correct
	mathematical terminology.
CO3	Be able to understand and use equations, formulae, and mathematical expressions and
	relationships in a variety of contexts.
CO4	Apply the knowledge in mathematics (matrices, percentage, ratio- proportion, averages) in
	solving business problems.
Subject: Micro Economics	
CO1	Understanding about the allocation of scare recourses that scarcity force choice.
CO2	Understanding how comparative advantage provides the basis for gain through trade.
CO3	Able to explain the welfare loss in non competitive market through deep knowledge of
	perfect competition and imperfect competition.
CO4	Understanding how much profit maximizing firms determine how much to produce with the
	help of cost of production.
Subject: Macro economics	
CO1	Learning how to use economic models, mathematics in common economic application.
CO2	Understanding the society's trade – off by using production possibilities.
CO3	Learn to calculate other elasticity using common economic variables.
CO4	Learn critique of the unemployment rate measure of the problem and differentiate between
	different types of unemployment.
Subject: Business Law	
CO1	Identify the fundamental legal principles behind contractual agreement.
CO2	Able to understand basic knowledge of the important business legislation along with
	relevant case law.
CO3	Help to understand the knowledge of the legal environment & principles in which a
	consumer & business operates.
CO4	Help student to bind maintain legally enforceable relations and conduct business and non-
	business transactions.
Subject: Business Organization	
CO1	To understand the concepts of the business, organization and the various forms of
	organization.
CO2	To understand the promotion of business and its stages.
CO3	To make them understand the merits and demerits of multinational corporation.
CO4	To explain them modern forms of communication like fax, Emails, video conferencing etc.
Subject: Hindi	
CO1	Hkkjrh; fparu ijaijk vkSj Hkko&laink ls lk{kkRdkj ds vfrfjDr Hkk"kk dh egRrk vkSj mlds fofo/k
	#i fgUnh dh 'kCn laink] okD;&lajpuk] i=&ys[ku ,oa Hkko& iYyou dk fodkl gksxkA
CO2	Hkkjrh; laLd`frd vkSj fparu ijaijk ls ifjp; izklr dj visf{kr Kku dks fodflr djsaxsaA
CO3	Tkhou&ewY;] lekt&O;oLFkk] jk"Vªh; miyfC/k;ksa vkSj fodkl dh fn'kkvksa ls ifjfpr gksxsA
CO4	laizs"k.k dkS'ky dh fodkl ds lkFk&lkFk fofHkUu fo"k;ksa dh vk/kkjHkwr vo/kkj.kkvksa dks
	n`< djsxsa rFkk mUgksaus Hkk"kkxr v/;;u dh vksj mUeq[k gksxsaA vkn'kZ ukxfjd o l{ke
	ekuo gksxkA
Subject: English	

CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it's an eye opening for students and
	society.
CO2	Vocabulary building is the foundation of language, collection of words makes right impact
	on spoken and written language. Vocabulary is a key for successful communication.
CO3	This will help students to understand the rules of English language. Grammar lays the
	basics and correctness of English language.
CO4	This course enhances the writing skills and develops students to comprehend their writing
	and reading skills.
Subject: Entrepreneurship Development	
CO1	Understanding basic concepts in the area of entrepreneurship, the role and importance of
	entrepreneurship for economic development, developing personal creativity.
CO2	To understanding the stages of the entrepreneurial process and the resources needed for
	the successful development of entrepreneurial ventures.
CO3	Entrepreneurship and Innovation minors will be able to find problems worth solving.
	Students advance their skills in customer development, customer validation, competitive
	analysis, and iteration while utilizing design thinking and process tools to evaluate in real-
	world problems and projects.
CO4	Entrepreneurship and Innovation minors will be able to sell themselves and their ideas, find
	problems worth solving.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (PLAIN) II YEAR	
Subject: Cost Accounting	
CO1	Explain the concept and role of cost accounting in the business management of
	manufacturing and non-manufacturing companies.
CO2	Define the unit costing, Contract, operating & Processing cost and their impact on value
	creation in the manufacturing and non-manufacturing companies.
CO3	Depth study of cost accounting systems and accumulation procedures and a search into
	the elements of material, labor and factory overhead costs.
CO4	Marginal costing and used for decision making and performance evaluation.
Subject: Corporate Accounting	
CO1	Able to understand the accounting procedure of Banking Companies and Insurance
	Company.
CO2	Helps to give an exposure to the Final Accounts of Companies and distribution of Profit &
	Loss of Pre Incorporation and Post Incorporation.
CO3	Gain knowledge about Valuation of Shares and Goodwill & got an idea of Liquidation of
	Companies.
CO4	Able to understand the knowledge of Holding & Subsidiary Company and learned
	accounting procedure for Amalgamation and Reconstruction.
Subject: Principles of Statistics	
CO1	Be statistically and numerically literate.
CO2	Have statistical concepts such as statistical collection, species characteristics, statistical
	series, tabular and graphical representation of data.
CO3	Be able to independently read statistical literature of various types, including survey
	articles, scholarly books, and online sources.
CO4	be able independently to calculate basic statistical parameters (mean, measures of
	dispersion, correlation coefficient, indexes etc.

Subject: Principles of Management	
CO1	Identify and evaluate social responsibility and ethical issues involved in business situations.
CO2	Evaluate leadership styles to anticipate the consequences of each leadership style.
CO3	Practice the process of management's functions: planning, organizing, leading, and
	controlling etc.
CO4	Explain the basic control process and monitoring points and describe the different levels
	and types of control.
Subject: Banking and Insurance	
CO1	This course is designed to enhance understanding of present structure of commercial
	banks in India and fundamentals of Insurance.
CO2	The objective of this course is to acquaint students with the theoretical, legal and practical
	aspects of modern banking.
CO3	To make them aware of various banking innovations after nationalization and an overview
	about insurance industry.
CO4	To make the students understand various principles, provisions that govern the Different
	types of insurance.
Subject: Indian Company Act	
CO1	Providing knowledge about the essential documents required for incorporating a company.
CO2	Understand the legal and fiscal structure of different forms of business organization and
	their responsibilities as employer.
CO3	Giving an understanding about the responsibilities and duties of key personnel of the
	Company.
CO4	Enlightening about the involvement of stakeholders in decision making process with their
	rights, duties and powers.
Subject: Hindi	
CO1	;qok 'kfDr dks oSf'od ekudksa dh dlkSVh ij [kjk dapu ln`'k cukuk gksA Kku gh og lk/ku gS]
	tks ekuo lalk/kuksa dks mnkUu ewY;] izHkko'kkyh O;fDrRo vkSj lkFkZd vfLrRo iznku djus
	esa l{ke gS A
CO2	vkt dh izfrLi/kkZRed thou 'kSyh esa ,d Nk= dks i;kZIr vkRefo'okl o laizs"k.kh;rk dks 'kfDr
	iznku djus esa vk/kkj ikB~;dze dh lajpuk vR;ar vk/kkj Hkwr ladYiuk dh Hkwfedk vnk
	djssxhA
CO3	lkFkZd l{ke tkx:d ukxfjd cudj jk"Vª fuekZ.k dh vn~Hkqr vfuok;Z dM+h cusxsaA
CO4	laizs"k.kh;rk ds iz{ksikL= dk lVhd iz;ksx djds og thou ds gj {ks= esa oakfNr izHkko ,oa
	lQyrk izkIr djsxsaA
Subject: English	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it will help students to update and increase
	their vocabulary and sentence formation pertaining to all walks of life.
CO2	Students will be able to form the sentence grammatically correct by following the rules and
	concepts of grammar pertaining to tenses, articles, nouns, pronoun, determiners and
	verbs.
CO3	Students will be able to comprehend and write an essay in a proper structure –
	Introduction, main body and the conclusion. They will be able to compose different types of
	formal and informal letters. While writing letter students adopt different strategies so that
	the letter serves the intended purpose and is not misunderstood.
CO4	Students will be able to achieve the goal of perfect translation by getting proficiency at both
	the source language and the target language. They differentiate between sense translation
	and literal translation.

Subject: Environmental Studies	
CO1	Understand the natural environment as a system and how human enterprise affects that
	system.
CO2	An environmental studies course advances a student's knowledge in a variety of current
	issues such as energy, pollution and environmental awareness.
CO3	Course covers how to evaluate and address environmental problems and environmental
	studies Include forest ecology, energy efficiency in buildings. Sustainable practices,
	harnessing eco- friendly power sources and political ecology.
CO4	Object of course is to address the role of regulation on environment, how social &
	economical conditions affect ecological issues & major environmental challenges.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (PLAIN) V SEM	
Subject: Income Tax Law & Practice	
CO1	To provide students with a working knowledge of the fundamental tax principles and rules
	that applies to commonly encountered transactions undertaken by individuals.
CO2	To know the process of determined residential status.
CO3	Understanding of Heads and types of income.
CO4	Analyze the assessment procedure and representation before appropriate authorities under
	the law.
Subject: Management accounting	
CO1	Apply managerial accounting and its objectives in a way that demonstrates a clear
	understanding of ethical responsibilities.
CO2	Apply and analyze different types of activity-based management tools through the
	preparation of estimates.
CO3	Analyze cost-volume-profit techniques to determine optimal managerial decisions.
CO4	Prepare a master budget and demonstrate an understanding of the relationship between
	the components and prepare analyses of various special decisions, using relevant costing
	and benefits.
Subject: Principles of Marketing	
CO1	To introduce the marketing concept and how we identify, understand and satisfy the needs
	of customers and markets.
CO2	Provide knowledge of Consumer behavior and marketing segmentation.
CO3	Understanding of both the product and marketing lifecycle.
CO4	To make students aware about price fixation and the factors affected the price of the
	product.
Subject: Public Finance	
CO1	Be able to critically assess the mechanism of functioning of modern public finance.
CO2	Identify the types of public needs, Classify public revenues and expenditures through the
	budget and to analyze the instruments and objectives of budgetary policy
CO3	Analyze critically tax reforms and policy choices in developed and developing countries.
CO4	Discuss current public policy, key issues and challenges in fiscal policy in a particular
	country context.
Subject: Principle of Insurance	
CO1	To provide students knowledge about general principles and practices of insurance.
CO2	Provide a basic understanding of the Insurance Mechanism.
CO3	Identify the relationship between Insurers and their Customers and the importance of

	Insurance Contacts.
CO4	Give an overview of major Life Insurance and General Insurance Products.
Subject: Moral Value and Hindi Language and English	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
CO4	The students will earn competency in LSRW skills; that help them to improve
	communication in both the languages. This will prepare them to participate in competitive
	examination. They will be able to write persuasive resume.
Subject: Basics of Computer & Information Technology – I	
CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware and s/w components that make up a computer's
	system and the role of each of these components.
CO3	Information technology (IT) is the use of computers to organize, word processing, store,
	retrieve, transmit, and manipulate data or information, often in the context of a business or
	other enterprise.
CO4	Use of various operating systems and Differentiate among various operating systems.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
Subject: Indirect Tax	
CO1	To introduce the basic concept of Indirect Tax. To familiarize the concept of Central Excise
	Duty & its classification. To Understand the valuation rules under central excise act.
CO2	Make the students familiarizes with the concept of Custom Duty and its provisions. It gives
	more practical knowledge to computation of assessable value & calculation of Custom
	Duty.
CO3	Make the students familiarizes with the concept of Central Sales Tax and its provisions. It
	give more practical knowledge to computation of Taxable Turnover & calculation of Central
	Sales Tax. Make the students familiarizes with the concept of M.P.VAT and its provisions.
	It give more practical knowledge to computation of Taxable Turnover & calculation of
	M.P.VAT.
CO4	Make the students familiarizes with the concept of Service Tax and its provisions. It gives
	more practical knowledge to computation of Taxable Service & calculation of Service Tax.
Subject: Auditing	
CO1	Able to understand and familiarize with the principles, procedure and techniques of
	Auditing.
CO2	Help to understand the Audit Program, Internal check system & Verification of Assets and
	liabilities.
CO3	Able to understand the duties and responsibilities of Company Auditor, Auditor's report
	and Vouching.
CO4	Get knowledge about Investigation and able to understand the process of special audit
	Banking, Insurance, Educational and Non -Profit Institution.
Subject: International Marketing	
CO1	To gain a solid understanding of the theoretical and conceptual aspects of international
	marketing.

CO2	To understand how to develop and manage a strategic international marketing initiative.
CO3	To develop an advance level knowledge about international marketing mix.
CO4	To provides knowledge regarding Export Business and related policies.
Subject: Financial Management	
CO1	This course is designed to enhance the understanding of the fundamental concepts of
	finance including but not limited to time value, capital budgeting and the cost of capital,
	working capital management.
CO2	To enable the students to understand the importance of the subject through analysis and
	interpretation of financial statements & Application of Various Calculative Tools.
CO3	Apply financial management concepts and tools to the decisions faced by a manager in
	investment decisions.
CO4	Apply financial management concepts and tools to the financing decisions and dividend
	decisions faced by the firm.
Subject: Financial Market & Investment Management	
CO1	To provide information about general structure of the Indian financial market and services
	with in depth knowledge of their working.
CO2	To give an understanding of SEBI its guidelines and working as regulatory authority.
CO3	Creating cognition for Investment opportunities and security analysis.
CO4	To give conceptual as well as practical knowledge about risk and return analysis
Subject: Moral Value and Hindi Language and English	
CO1	lkfgR;] foKku] dyk] ijaijk] bfrgkl] i;kZoj.k ds lkFk O;kdj.k dk vfuok;Z Kku dks fodflr djsaxsA
CO2	fo|kFkhZ u dsoy lQy thfodksiktZu djs vfirq lkFkZd l{ke tkx#d ukxfjd cusA
CO3	The students not only become conversant with literary types of Hindi and English but they
	might develop understanding of social and historical surroundings .They may acquire
	knowledge of Indian culture and traditions.
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	communication in both the languages. This will prepare them to participate in competitive
	examination. They will be able to write persuasive resume.
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CO1	Use Microsoft Office programs to create personal, academic and business documents.
CO2	Understand the fundamental hardware and s/w components that make up a computer's
	system and the role of each of these components.
CO3	Information technology (IT) is the use of computers to organize, word processing, store,
	retrieve, transmit, and manipulate data or information, often in the context of a business or
	other enterprise.
CO4	Use of various operating systems and Differentiate among various operating systems.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (TAX) I YEAR	
Subject: Financial Accounting	
CO1	Explain the purpose of double entry system to understanding the accounting system
	properly. Record journal entries bookkeeping and Prepare ledger accounts using double
	entry accordingly. Preparation of trial balance, ratification of errors and final accounts.
CO2	To understand the aspects of Accounting Standards in modern scenario Specially AS-6 &
	AS-10. To familiarize the concept of Branch account and Scope of departmental
	accounting.
CO3	To understand the concept of royalty and its benefits. To deputize the concept of joint
	venture and Investment & accounting for it.

CO4	Getting acquainted with the consignment accounts & its usage. Enable the students to
	understand partnership account from dissolution including Insolvency to Amalgamation of
	firms & Conversion of firm into Company.
Subject: Business Mathematics	
CO1	Have basic knowledge in the areas of business calculus and financial mathematics.
CO2	Be able to work with simple and compound interest, annuities, pricing, invoice preparation,
	trade discounts, taxes, and depreciation problems in various situations and use correct
	mathematical terminology.
CO3	Be able to understand and use equations, formulae, and mathematical expressions and
	relationships in a variety of contexts.
CO4	Apply the knowledge in mathematics (matrices, percentage, ratio- proportion, averages) in
	solving business problems.
Subject: Direct Tax System :Income Tax	
CO1	Introduce the basic Concept of Income Tax and provisions of Direct Tax with regard to IT
	Act 1961.
CO2	Understand the Determination of Agricultural Income and residential status.
CO3	Understanding of Heads and types of income like House property & Business or
	Profession.
CO4	Understand the computation of Capital gain & income from other sources.
Subject: Indirect Tax- Goods & Service Tax	
CO1	To give the students a general understanding of the GST law in the country and provide an
	insight into practical aspects of GST and equip them to become tax practitioners.
CO2	To explain the examine the basics of taxation and taxation structure.
CO3	Improving the competitiveness of the Registration and returns original goods and services.
CO4	Ensuring the availability of input credit and composition levy across the value chain.
Subject: Business Law	
CO1	Identify the fundamental legal principles behind contractual agreement.
CO2	Able to understand basic knowledge of the important business legislation along with
	relevant case law.
CO3	Help to understand the knowledge of the legal environment & principles in which a
	consumer & business operates.
CO4	Help student to bind maintain legally enforceable relations and conduct business and non-
	business transactions.
Subject: Business Organization	
CO1	To understand the concepts of the business, organization and the various forms of
	organization.
CO2	To understand the promotion of business and its stages.
CO3	To make them understand the merits and demerits of multinational corporation.
CO4	To explain them modern forms of communication like fax, Emails, video conferencing etc.
Subject: Hindi	
CO1	Hkkjrh; fparu ijaijk vkSj Hkko&laink ls lk{kkRdkj ds vfrfjDr Hkk"kk dh egRrk vkSj mlds fofo/k
	#i fgUnh dh 'kCn laink] okD;&lajpuk] i=&ys[ku ,oa Hkko& iYyou dk fodkl gksxkA
CO2	Hkkjrh; laLd`frd vkSj fparu ijaijk ls ifjp; izkIr dj visf{kr Kku dks fodflr djsaxsaA
CO3	Tkhou&ewY;] lekt&O;oLFkk] jk"Vªh; miyfC/k;ksa vkSj fodkl dh fn'kkvksa ls ifjfpr gksxsA
CO4	laizs"k.k dkS'ky dh fodkl ds lkFk&lkFk fofHkUu fo"k;ksa dh vk/kkjHkwr vo/kkj.kkvksa dks
	n`< djsxsa rFkk mUgksaus Hkk"kkxr v/;;u dh vksj mUeq[k gksxsaA vkn'kZ ukxfjd o l{ke

	ekuo gksxkA
Subject: English	
CO1	The course of English allows student to develop new ideas and ethical view point. Studying
	English course enriches their LSWR skills and it's an eye opening for students and
	society.
CO2	Vocabulary building is the foundation of language, collection of words makes right impact
	on spoken and written language. Vocabulary is a key for successful communication.
CO3	This will help students to understand the rules of English language. Grammar lays the
	basics and correctness of English language.
CO4	This course enhances the writing skills and develops students to comprehend their writing
	and reading skills.
Subject: Entrepreneurship Development	
CO1	Understanding basic concepts in the area of entrepreneurship, the role and importance of
	entrepreneurship for economic development, developing personal creativity.
CO2	To understanding the stages of the entrepreneurial process and the resources needed for
	the successful development of entrepreneurial ventures.
CO3	Entrepreneurship and Innovation minors will be able to find problems worth solving.
	Students advance their skills in customer development, customer validation, competitive
	analysis, and iteration while utilizing design thinking and process tools to evaluate in real-
	world problems and projects.
CO4	Entrepreneurship and Innovation minors will be able to sell themselves and their ideas, find
	problems worth solving.
DEPARTMENT OF COMMERCE, IPS ACADEMY, INDORE	
Course Outcomes (CO)	
BCOM (TAX) II YEAR	
Subject: Cost Accounting	
CO1	Explain the concept and role of cost accounting in the business management of
	manufacturing and non-manufacturing companies.
CO2	Define the unit costing, Contract, operating & Processing cost and their impact on value
	creation in the manufacturing and non-manufacturing companies.
CO3	Depth study of cost accounting systems and accumulation procedures and a search into
	the elements of material, labor and factory overhead costs.
CO4	Marginal costing and used for decision making and performance evaluation.
Subject: Corporate Accounting	
CO1	Able to understand the accounting procedure of Banking Companies and Insurance
	Company.