



RAYAT SHIKSHAN SANSTHA'S

KARMAVEER BHAURAO PATIL INSTITUTE OF MANAGEMENT STUDIES AND RESEARCH, SATARA.

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Program Specific Outcome (PSO) /

Program Outcome (PO) / Course Outcome (CO)

Program: MBA, BBA, BCA



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PROGRAM SPECIFIC OUTCOMES

Program: MBA

At the end of MBA program student should take of either of following.

1. Managerial decision making through the application of knowledge of management discipline
2. Set up business enterprise and manage diversified growth of entrepreneurship.

Program: BBA

After completing the BBA course the students would be able to:

1. Acquire the managerial professional attributes and be capable of decision making by applying the knowledge of management discipline.
2. Explore the entrepreneurial quality and start new business venture with innovative ideas.
3. Prepare students to undertake post-graduation management programme.

Program: BCA

Students will able to understand, analyze and develop computer programs in the areas related to algorithm, application software, web design and networking for efficient design of computer based system.

PROGRAM OUTCOMES

Program: MBA

At the end of MBA program students should be with following abilities.

- PO1.** Recognize the functioning of business opportunities involvement of business enterprises and exploring the entrepreneurial opportunities.
- PO2.** Develop entrepreneurship by providing eco system like incubation center and entrepreneurship development center for students who intent to take up start up or grow existing business.
- PO3.** Develop skills for analyzing the business data, application of relevant analysis and problem solving.
- PO4.** Demonstrate a global outlook with the ability to identify aspects of the global business and cross cultural understanding
- PO5.** Identify the contemporary social problems, exploring the opportunities for social entrepreneurship, designing business solutions and demonstrate ethics in organizational decision making.
- PO6.** Develop effective communication especially in business applications, with the use of appropriate technology.
- PO7.** Collaborate and lead teams across organizational boundaries and demonstrate leadership qualities, maximize the uses of diverse skills of team members in the related context.

Program: BBA

After completing the BBA course the students would be able to:

- PO1.** Identify the different functional aspects of business world and recognize different opportunities of business.
- PO2.** Acquire the different skills necessary for the professional attitudes.
- PO3.** Demonstrate a global outlook with the ability to identify aspects of the global business and cross cultural understanding.

- PO4.** Identify the problems and challenges and inculcate the capability to cope with the spontaneous changes.
- PO5.** Analyze the importance of innovation and research, tackle the contemporary needs and accordingly grab the opportunities.
- PO6.** Develop effective and oral communication especially in business applications, with the use of appropriate technology.

Program: BCA

After completing the BBA course the students would be able to:

- PO1:** Explain and analyze standard computer science algorithms and describe theoretical aspects of various programming languages
- PO2:** Apply problem-solving skills to implement medium and large- scale programs using state of art programming languages
- PO3:** Describe the interactions between low-level hardware, operating systems, and applications
- PO4:** Demonstrate effective communication and organization as part of a team of software developers collaborating on a large computer program

COURSE OUTCOMES MBA

MBA			
Sr .	Title of the Course	Course Outcomes	PO's Mapping
1	Principles & Practices of Management	CO1: Candidate can explain and interpret management concepts of the business enterprise(Understand)	PO1
		CO2: Candidate can apply implement managerial knowledge to perform his task of business management(apply)	PO3
		CO3: Candidate can easily diagnose problem through the analysis of the business environments (Analyze)	PO3
		CO4: Candidate will be ready for evaluation of different alternative solutions and can choose appropriate solution to overcome the problem.(evaluate)	PO5
		CO5: Candidate will be ready for to create new concepts as business ethics to improve goodwill of business enterprise.(create)	PO5
2	Management Accounting	CO1: Student able to explain different concepts, rules and procedure used in accounting.	PO1
		CO2: Student will able to implement accounting procedures, principals, and concepts in preparing final accounts.	PO1
		CO3: Student will able to divide total cost under different elements of cost.	PO3
		CO4: Student will able to estimate BEP on the basis of using CVP analysis	PO3
3	Quantitative Techniques for Management	CO1: Summarize various terms used in statistics.	PO3
		CO2: Apply appropriate quantitative technique according to nature of data.	PO3
		CO3: Analyze the given data with the help of quantitative techniques.	PO3
		CO4: Conclude the analyzed data for managerial decisions.	PO3
4	Research Methodology (Paper -15(XV))	CO 1: Students will be able to define various terms used in research process	PO4
		CO 2: Students will be able to describe research design, sample design and sampling methods	PO3
		CO 3: Students will be able to apply appropriate methods for data collection for research work	PO5
		CO4: Students will be able to use appropriate statistical tools for data analysis and interpretation	PO5

5	Managerial Economics	CO1: Candidate will be ready for identification of economic environment.(Knowledge)	PO1
		CO2: Candidate can be interpret concept and relationship of law and variable proportion and return scale(Understand)	PO4
		CO3: Candidate can easily analyze market situation to diagnose problem through the analysis of the business environments(Analyze)	PO4
		CO4: Candidate can apply suitable technique of achieving business target(apply)	PO5
		CO5:Candidate can evaluate different alternative solutions and can choose appropriate solution to overcome the problem.(evaluate)	PO5
		CO6: Candidate can prepare/develop report which shows phases of business cycle and create new concepts as business ethics to improve goodwill of business enterprise.(create)	PO4
6	Information Technology for Management	At the end of the course the student should be able to: CO1: Demonstrate the fundamental concepts of information technology and emphasize the importance of information technology in organizations.	Po1
		CO2: Understand the issues involved in managing information technology & information system initiatives.	Po5
		CO3: Analyze the skills obligatory to contribute in decision-making involving operations issues and using its for competitive advantage and a sustainable future.	Po3
		CO4: Explain the basics of computer and its applications in the business organization.	PO4
7	Business Communication	CO1:Student know all the type of communication	PO6
		CO2:Student able to write business letter and report	PO6
		CO3:Capable to analyze body language	PO3
		CO4: Student learned about oral communication	PO6
8	Organizational Behavior	CO1: Student learn to appraise human being behavior	PO7
		CO2:Student capable to analyze own personality	PO3
		CO3: Student able to motivate fellow members.	PO7
		CO4: Capable to resolve conflict.	PO7
		CO5: Able to create good organization culture and manage cultural diversity.	PO7

9	Legal Framework of Business	At the end of the course the student should be able to:	
		CO 1: Prepare model business contract and analyze case law on formation and breach of contract.	PO3
		CO 2: Design model promissory note, and bill of exchange.	PO4
		CO 3: Understand power and functions of SEBI and prepare notice, agenda minutes of AGM and board meeting.	PO4
		CO 4: Understand objectives of IT act 2000 and E-commerce concepts.	PO4
10	Marketing Management	At the end of the course the student should be able to:	
		CO1: Restate concepts of marketing, marketing environment and planning.	PO1
		CO 2: Discuss STP and marketing MIX	PO1
		CO3: Perform segmentation, targeting and positioning.	PO4
		CO 4.: Outline marketing MIX strategy.	PO4
11	Financial Management	CO1: Student will able to explain functions of a finance manager in the organization.(Understand)	PO1
		CO2: Student becomes competent to use technique of financial statement analysis to compare financial performance of the two or more organizations.(Evaluate)	PO3
		CO3: Student will able to calculate the need of working capital and its finance.(Apply)	PO3
		CO4: Student will able to analyze capital structure and cost of capital of any company.(Analyze)	PO3
12	Human Resource Management	CO1: Student understand concept HR procurement	PO3
		CO2: Student learned HRD appropriately	PO6
		CO3: Student able to create HRD culture	PO3
		CO4: Student understand factors influencing wage and salary and capable to design appropriate salary.	PO5
13	Operations Management	CO1: Discuss Operations Management functions and decisions.	PO1
		CO2: Formulate Facility and technology management structure for any organization.	PO1
		CO3: Explain various PPC and materials management functions.	PO2
		CO4: Describe various quality management aspects for any organization	PO3

14	Management Information System	CO1: Demonstrate the technical knowledge associated with the development of information systems within an organization.	PO5
		CO2: Develop proficiency in industry standard word processing; spread & presentation software as integrated productivity & decision support tools.	PO3
		CO3: Demonstrate the knowledge needed to lead and manage the resources and processes associated with information systems within an organization.	PO1
		CO4: Develop critical and strategic thinking, improve analytic skills and techniques, and enhance effective decision-making.	PO7
15	Operation Research Techniques	CO1: Discuss Operation research techniques phases and applications for any organization.	PO7
		CO2:Formulate assignment and transportation models for any organization.	PO3
		CO3:Design Queuing and inventory models for any organization.	PO3
		CO4:Analyze networks and decision models for any organization.	PO3
16	Business Environment	CO1: Students will be able to know concept and types of business ownership.	PO1
		CO2: Students will be able to understand various factors of Micro and Macro business environment.	PO5
		CO3: Students will be able to analyze impact of LPG on industry.	PO4
		CO4: Students will be able to evaluate approaches of social responsibilities of business.	PO7
17	Corporate Planning & Strategic Management	CO1: Candidate can easily identify situation especially business environment strategy(Knowledge)	PO4
		CO2: Candidate can explain strategic intend as well as types of business strategies(Understand)	PO6
		CO3: Candidate can apply for implement strategies for fulfillment of his predetermined goals and objectives(Apply)	PO5
		CO4: Candidate will be ready for analysis of the business environment(Analyze)	PO3
		CO5: Candidate can evaluate various factors as well as strategies to choose a suitable strategy.	PO6

		CO6: Candidate will be design suitable good structure and strategies for the business success.(Creative)	PO6
18	Project Report & Viva-Voce	CO1: Understand management problem and prepare research design.	PO3
		CO2: Design data collection tool.	PO3
		CO3: Prepare tabulation, analysis and interpretation of data.	PO3
		CO4: Write research Project.	PO3
19	Entrepreneurs hip Development	CO1: Candidate can be identify concept of entrepreneur entrepreneurship, like between entrepreneurship and eco- development (know)	PO1
		CO2: Candidate can express about factor influencing entrepreneurship development as well as recourse behind entry of entrepreneur in entrepreneurship (understand)	PO5
		CO3: Candidate can be use information of entrepreneurship and support system to enter in entrepreneurship to be an entrepreneur (Apply)	PO6
		CO4: Candidate can be differentiate people their future career (analyze)	PO2
		CO5: Candidate can design or development program (Create)	PO5
		CO6: Candidate can be prepare feasibility report for the new business enterprise or new project (Create)	PO5
		CO7: Candidate can be collect information for development or identification of new business idea through the environmental study (create)	PO1
20	Management Control System	CO1: Student will be able identify basis concepts related to MCS	PO1
		CO2: Student will able to computer budget for organization.	PO3
		CO3: Student will able to compare organizational performance on the basis of financial and non financial measurements	PO3
		CO4: Student will able to design MCS for service organization	PO3

21	Global Quality System	CO1: Discuss various quality philosophies and quality aspects for any organization.	PO1
		CO2: Formulate TQM model for any organization.	PO2
		CO3: Implement Kaizens and quality control tools for any organization.	PO2
		CO4: Explain various Quality Certifications and Awards.	PO1
	International Business	CO1: students will identify international business environment (know)	PO4
		CO2: Students would interpret environmental factors and its influence on international business activities.	PO3
		CO3: Students will apply provisions of international institutions for business success.	PO2
		CO4: students will inspect various forms and factors influencing on international trade	PO7
		CO5: Students will take initiative to start or run business enterprise as international business.	PO2
22	Electives		
22.1	Marketing Management		
22.1.1	Contemporary Issues in Marketing	At the end of the course the student should be able to:	
		CO1:Design and develop marketing communication strategies	PO6
		CO2: Analyze buying behavior of customers.	PO4
		CO3: Design a campaign on social issues on social media.	PO6
		CO4:Design marketing activities for rural market.	PO5
22.1.2	Consumer Behavior and Brand Management	At the end of the course the student should be able to:	
		CO1: Explain models of consumer behavior and individual buying.	PO4
		CO2: Generalize individual consumer.	PO4
		CO3: Examine influence of social class, group dynamics on consumer behavior.	PO4
		CO4:Discuss brand related concepts.	PO6
22.1.3	Strategic Marketing	At the end of the course the student should be able to:	
		CO1:Explain concepts of marketing strategy	PO1
		CO2:Apply marketing strategy to solve problem.	PO2
		CO3:Explain CRM, international marketing, green marketing and social marketing.	PO7

22.1.4	Sales and Distribution Management	At the end of the course the student should be able to:	
		CO1: Estimate sales by using sales forecasting methods.	PO1
		CO2: Determining size of sales force.	PO7
		CO3: Design sales meeting agenda and sales contests.	PO7
		CO4: Design personal selling strategies	PO7
		CO5: Explain supply chain management.	PO4
22.1.5	Service Marketing and Retail marketing	At the end of the course the student should be able to:	
		CO1: Determine marketing mix for service organization	PO1
		CO2: Compute service quality using service quality models.	PO4
		CO3: Determine retail store location, layout and retail mix.	PO4
		CO4: Design retail strategies.	PO7
22.2	Finance Management		
22.2.1	Indian Financial System	CO1: Explain the concept of Financial System, Financial Markets, Stock exchanges and Financial Services	PO4
		CO2: Knowledge of stock market procedures	PO4
		CO3: Develop strategies, Financial plan of action	PO2
		CO4: Evaluate option to take out investment profitability.	PO3
22.2.2	Financial Decision Analysis	CO1: Students become able to predict the sickness of business unit through financial information. (Understand)	PO5
		CO2: Student will be able to relate divided decision with approach of management towards distribution of profit. (Apply)	PO5
		CO3: Student can analyze a case of merger on the cost and benefits with calculations. (Analyze)	PO3
		CO4: Student will able to assess EBIT- EPS Analysis and leverage of any company on the basis of data.(Evaluate)	PO3
22.2.3	Project Planning and working Capital Management	CO1: Student will able to explain recovery problems in the organization and strategies for efficient collection. (Understand)	PO2
		CO2: Student will able to prepare cash budget for any business unit. (Apply)	PO3
		CO3: Students become competent to point out suitable environment for project by analyzing it with different aspects. (Analyze)	PO5
		CO4: Student can prepare project proposal for	PO7

		any proposed business unit. (Create)	
22.2.4	Investment Management	CO1: Student will able to outline different investment avenues and compare them with each there on the basis of risk associated with them.	PO4
		CO2: Student will able to compare two companies financial data by arranging data in such a way that it will helpful to diagnose the financial performance of the company.	PO3
		CO3: Student will able to access the risk profile of investors investing in debt investment.	PO3
		CO4: Student will able to plan for individual investor under various tax brackets.	PO2
22.2.5	International Finance	CO1: Student will able to discuss about foreign exchange market, exchange rate mechanism risk international operations.	PO4
		CO2: Student can apply his knowledge in import export mechanism.	PO4
		CO3: Student can easily judge investment decisions of MNC's	PO4
		CO4: Candidate can make the plan of cash management for MNC's	PO3
22.3	Human Resource Management		
22.3.1	Human Resource Planning And Procurement	CO1: Student will be able to evaluate job	PO5
		CO2: Student will be able to design recruitment policy and procedure	PO 7
		CO3: Student will be able to design induction program	PO 7
		CO4: Student understand types of interview, do's and don'ts and able to conduct interview	PO6
22.3.2	Human Resource Development	CO1: Student will be able to create HRD climate and culture	PO 7
		CO2: Student will be able to analyze training need	PO 3
		CO3: Student will be able to evaluate effectiveness of training	PO 5
		CO4: Student will be able to develop performance appraisal system.	PO 5
		CO5: Student will be able to do competency mapping	PO 5

22.3.3	Employee Remuneration	CO1: Student understand concept of minimum wage, fair wage and living wage.	PO 3
		CO2: Student will be able to design pay package	PO 5
		CO3: Student understand different wage related legislation and provision therein	PO 5
		CO4: Student understand different incentive plan and employee benefit	PO 3
22.3.4	Employee Relations and Labor Laws	CO1: Student understand concept of employee relation	PO 7
		CO2: Student understand concept of trade union	PO 7
		CO3: Student will be able to describe provision in industrial dispute act	PO 5
		CO4: Student understand preventive measures and statutory provision to settle industrial dispute	PO 5
		CO5: Student will be able to illustrate grievance, collective bargaining and disciplinary procedure	PO 7
		CO6: Student understand concept of worker participation in management and whistle blowing.	PO 5
22.3.5	Strategic HRM and International Perspective	CO1: Understand concept of International recruitment	PO 7
		CO2: Able to create selection process to be adopted for expatriate selection	PO 5
		CO3: Able to design 5 P model of strategic HRM	PO 3
		CO4: Capable to take measures necessary to encounter challenges in globalized era	PO 4
		CO5: Students know the strategic management process and role of HR in the strategic management Process	PO7
22.4	Production Management		
22.4.1	Operations Management Strategies	CO1: Discuss competitive priorities and global business conditions for creation of operations strategies.	PO1
		CO2: Design comprehensive product development outline for any organization.	PO2
		CO3: Examine production system and Project scheduling of any organization.	PO3
		CO4: Formulate operations strategies for any organization.	PO2

22.4.2	Production Planning and Control	CO1: Explain PPC elements in various manufacturing systems.	PO1
		CO2: Generate PPC documents in various manufacturing systems.	PO3
		CO3: Formulate PPC structure for various manufacturing systems.	PO3
		CO4: Implement PPC in various manufacturing systems with various technologies.	PO6
22.4.3	Materials and Inventory Management	CO1: Explain various functions of the materials management.	PO1
		CO2: Perform inventory planning for the organization.	PO2
		CO3: Implement inventory control techniques for the organization.	PO3
		CO4: Evaluate supply chain management of the organization.	PO4
22.4.4	Global Operations & Logistics	CO1: Discuss Global Operations & Logistics Strategies for any organization.	PO1
		CO2: Formulate Global Operations and Logistics Planning for any organization.	PO3
		CO3: Explain Risk Management in Global Operations for any organization.	PO1
		CO4: Design Effective Management of Global Operations & Logistics for any organization.	PO4
22.4.5	World Class Production Management	CO1: Discuss World Class Manufacturing strategies and other aspects.	PO1
		CO2: Explain factors and concepts of Globalization with Reference to Manufacturing.	PO2
		CO3: Describe Emerging concepts of WCM with their applications.	PO6
		CO4: Examine Related aspects of Manufacturing for WCM.	PO1
22.5	System Management		
22.5.1	Strategic Information System Management (PI)	At the end of the course the student should be able to:	
		CO1: Understand emerging Technologies and strategic role of IT in strategy.	PO5
		CO2: Develop IT strategy for any manufacturing or service organization.	PO7
		CO3: Understand IT governance areas and determine IT governance implementation problems in business organization	PO4
		CO4: Students must be able to use digital marketing web applications and social media for business functions.	PO1

22.5.2	Information System Audit and Security (PII)	At the end of the course the student should be able to:	
		CO1. Demonstrate the concepts of information systems audit and security.	PO4
		CO2. Estimate the organizations risk management IS controls and security architecture.	PO5
		CO3. Define the application of various types of Computer-Assisted Audit Tools and Techniques.	PO1
		CO4. Students must be able to determine an understanding of the complexity of managing security in information systems.	PO3
22.5.3	Software Project Management (PIII)	At the end of the course the student should be able to:	
		CO1. Teach key aspects to successfully plan, organize, staff, control and lead software projects.	PO1
		CO2. Understand project management techniques to plan, manage and close a project.	PO5
		CO3. Display proactive actions in project development and completion.	PO3
		CO4. Be able to question, search for answers and meaning and develop ideas that lead to action.	PO7
22.5.4	Business Process Re-Engineering (PIV)	At the end of the course the student should be able to:	
		CO1. Make a process model and apply it in the re-design of a process & understand the important role it plays in the development of a BPR project	PO6
		CO2. Determine an understanding of some approaches and techniques of BPR and be able to apply them to BPR implementation.	PO1
		CO3. Distinguish between customer facing processes and business facing processes; compare the continuous process improvement ERP model and business process re-engineering.	PO5
		CO4. Describe business process, how SCM is essential in management along with its importance to an organization.	PO1
22.5.5	Knowledge Management (PV)	At the end of the course the student should be able to:	
		CO1: Demonstrate a thorough understanding of different types of knowledge assets in an organization.	PO3
		CO2: Demonstrate a comprehensive framework	PO4

		for designing and implementing successful knowledge management strategies for leveraging the intellectual assets of the organization.	
		CO3: Understand of some of the more advanced topics of AI such as neural network, natural language processing, agents and robotics, expert systems, and planning.	PO6
		CO4: Identify potential uses and needs of business intelligence.	PO7

COURSE OUTCOMES BBA

BBA				
Sr.	Title of the Course	Paper No.	Course Outcomes	PO's Mapping
1	Principles of Management	Paper-I	CO1: The students will be able to define the concept of Management & Elaborate concept with different examples.	PO 1
			CO2: The students will be able to define & compare the concepts of Managements by different Experts.	PO 1
			CO3: The students will be able to define the concept of Planning with Examples.	PO 2
			CO4: The students will be able to define the concept of organizing with Examples..	PO 2
2	Principles of Management	Paper-II	CO1: Students will be able to Define the concept of Motivation & elaborate concept with different examples.	PO 2
			CO2: Students will be able to define & compare the Motivation & Leadership by different Experts.	PO 1
			CO3: Students must be able to to define the concept of controlling with Examples.	PO 4
			CO4: Students must be able to define the concept of change management with examples.	PO 5
3.	Financial Accounting	Paper-I	CO 1: Student will able to define basic concepts of financial accounting.	PO1
			CO 2: Student will able to apply accounting rules and principles to prepare accounts.	PO2
			CO 3: Students can evaluate trial balance by rectifying errors.	PO4
			CO 4: Students will able to prepare final accounts for sole	PO6

			proprietorship.	
4	Financial Accounting	Paper-II	CO 1: Student will able to define management information system and accounting information system.	PO1
			CO 2: Student will able to compute depreciation on asset by using different methods of depreciation.	PO4
			CO 3: Students will able to record transactions related to bill of exchange.	PO2
			CO 4: Students can prepare final accounts of partnership firm.	PO6
5.	Marketing Management	Paper-I	CO 1: Students will be able to acquire an understanding of fundamental concepts of Marketing.	PO1
			CO 2: Students will be able to understand the role of research in making marketing decisions	PO2
			CO 3: Students will be able to develop an understanding of the decision-making process of consumers.	PO4
			CO 4: Students will be able to analyze Market Segmentation.	PO5
6.	Marketing Management	Paper-II	CO 1: Students will be able to define 4 P's Of marketing.	PO1
			CO 2: Students will be able to understand product concept.	PO1
			CO 3: Students will be able to explain various pricing methods and strategies.	PO4
			CO 4: Students will be able to apply commonly used promotion terms, concepts, and tools.	PO5
7	Human Resource Management	Paper-I	CO 1: It will make the students able to identify the concept of human resource and define the different aspects of HR.	PO1
			CO 2: The students will be able to understand the planning process of HR and to articulate its different elements accurately.	PO1

			CO 3: The students will be able to determine the sources of recruitment and selection process.	PO1
			CO 4: It will make the students able to prioritize the training related needs and to apply the methods accordingly.	PO4
8.	Human Resource Management	Paper-II	CO 1: The students will be able to define the meaning and methods of performance appraisal.	PO5
			CO 2: The students will be able to understand the concept of promotion, transfer and demotion.	PO1
			CO 3: It will make the students able to analyze the different components of remuneration and factors affecting it.	PO1
			CO 4: The students will be able to evaluate the different types of employee benefits and services.	PO5
9	Business Economics (Macro-I)	Paper-I	CO 1: The students will be able to define the nature and significance of the micro economics and its role in business.	PO1
			CO 2: It will make the students able to understand the concept of consumer behaviour from graphical outline.	PO2
			CO 3: The students will be able to apply the different types of methods of demand and analysis.	PO6
			CO 4: The students will be able to evaluate the market supply related aspects and create the plan accordingly.	PO6

10.	Business Economics (Macro-I)	Paper-II	CO 1: The students will be able to identify the different categories of market.	PO1
			CO 2: The students will be able to understand the concept of monopolistic competition and oligopoly.	PO6
			CO 3: It will make the students able to analyze the different theories of factor pricing.	PO3
			CO 4: It will make the students able to evaluate the different determinants of welfare economics.	PO4
11.	Business Communication	Paper-I	CO 1: Students will be able to Identify the elements of the business communication process.	PO1
			CO 2: Students will be able to Write effective business documents, including memos, email, letters, and reports.	PO2
			CO 3: Students will be able to Use business English clearly, concisely, and correctly.	PO3
			CO 4: Students will be able to understand reporting to management.	PO5
12.	Business Communication	Paper-II	CO 1: Students will be able to deliver business presentations.	PO6
			CO 2: Students will be able to understand and apply effective employment interviewing strategies.	PO6
			CO 3: Students will be able to understand various channels of business communication.	PO5
			CO 4: Students will be able to use business communication technologies.	PO6
13.	Computer Applications in Business	Paper-I	CO 1: The students will be able to explain about the computer characteristic and the generation of computer.	PO2
			CO 2: The students will be able to categorize the memory of computer.	PO4
			CO 3: The students will be able to discuss about the system.	PO4

			CO 4: The students will be able to know the working of the Ms-word.	PO1
14.	Computer Applications in Business	Paper-II	CO 1: The students will be able to know the list of technologies used in Computer Applications.	PO3
			CO 2: The students will be able to create sheets in Ms-Excel.	PO2
			CO 3: The students will be able to design presentation in PowerPoint.	PO2
			CO 4: The students will be able to generate and maintain account books.	PO5
15.	Management of Business Services	Paper-I	CO 1: Students will be able to Understand the nature and scope of services marketing and present.	PO1
			CO 2: Students will be able to Identify and discuss characteristics of services;	PO2
			CO 3: Students will be able to explain management of banking services.	PO1
			CO 4: Students will be able to analyze management of hotel management services.	PO4
16.	Management of Business Services	Paper-II	CO 1: Students will be able to understand Concept, Scope and Importance and types of Insurance Services	PO1
			CO 2: Students will be able to describe management of transport services	PO4
			CO 3: Students will be able to explain management of consultancy services	PO2
			CO 4: Students will be able to discuss management of other services like tourism services, telecommunication services, education services.	PO6
17.	Cost and Management Accounting	Paper-I	CO 1: Candidate can be identify concepts of cost, costing cost accounting financial accounting and management accounting	PO1
			CO2: Candidate can be distinguish between	PO1

			management accounting financial accounting and cost accounting.	
			CO3: Candidate can be calculate easily prime cost, fixed cost, factory cost total cost, profit and amount of sales and volume of BEP also	PO4
			CO4: Candidate can make design of marginal cost through showing graph of total cost, fixed cost, variable cost and BEP.	PO6
18.	Cost and Management Accounting	Paper-II	CO 1: Students will able to apply different financial statement analysis tools for management decision making like Ratio Analysis	PO1
			CO2: Students will able to Know about Cash & Funds Flow Statements. & procedure to prepare it.	PO2
			CO 3: Students will able to understand different types of Management Reports.	PO3
			CO 4: Students will able to know about Human Resource Accounting & its Procedure	PO1
19.	Production Management		CO1: It will make the students able to define the meaning, functions and types of productions systems and recent trends in production management.	PO 1
			CO2: It will make the students able to define the meaning, and importance, factors influencing in location of factory and plant layout and structure of layout.	PO 4
			CO 3: It will make the students able to understand meaning, scope, objectives and techniques of Production planning and control.	PO 4
			CO 4: It will make students able to understand meaning, importance, classification and organization for plant	PO 5

			maintenance.	
20.	Material Management		CO1: It will make the Students aware about the Materials & Stores Management.	PO 5 / PO 6
			CO2: Make Students able to elaborate Inventory Management & Control Techniques.	PO 4
			CO3: Able to Prepare EOQ from Inventory Management Technique.	PO 4
			CO4: Students make aware about Logistic & SCM from the concepts.	PO 4
21	Business Economics (Macro-II)	Paper-I	CO 1: It will make the students able to define the meaning, nature and scope of macro economics.	PO1
			CO 2: The students will be able to understand the concept of money and its different approaches.	PO2
			CO 3: The students will be able to utilize the different theories of output and employment in market.	PO6
			CO 4: The students will be able to evaluate the causes of inflation and deflation and plan accordingly to overcome the challenges related to it.	PO3
22.	Business Economics (Macro-II)	Paper-II	CO 1: The students will be able to define the meaning, nature and characteristics of Business Cycle.	PO1
			CO 2: The students will be able to understand the concept of public finance and public expenditure.	PO3
			CO 3: It will make students able to analyze the different policies like monetary, fiscal and budgetary policies.	PO6
			CO 4: It will make students able to know about concept of Economic Growth & its Different Determinants.	PO6
23.		Paper-I	CO 1: The students will be able to define the concept and	PO1

	Entrepreneurship Development		meaning of entrepreneur.	
			CO 2: It will make students able to understand the role of entrepreneurship in economic development.	PO2
			CO 3: The students will be able to analyze the problems for women entrepreneur and recent trends in women entrepreneurship.	PO4
			CO 4: The students will be able to evaluate the role of small & medium enterprises and role of SIDCO, SIDBI.	PO3
24.	Entrepreneurship Development	Paper-II	CO 1: The students will be able to define the meaning and types of business organizations.	PO1
			CO 2: The students will be able to understand the concept of EDP and different institutions for EDP.	PO2
			CO 3: It will make the students able to analyze the concept of project identification and report.	PO4
			CO 4: The students will be able to evaluate and adapt the qualities of entrepreneurs by taking a glance of life history of different famous entrepreneurs.	PO2
25.	Statistical Techniques for Business	Paper-I	CO 1: Students will be able to define various terms used in Statistics, Applications, Sampling techniques & methods, data types	PO 1
			CO 2: Students will be able to select graphical tools for data presentation and frequency distribution	PO 3/ PO 2
			CO 3: Students will be able to calculate measures of central tendency and measures of dispersion	PO 4
			CO 4: Students will be able to examine the relationship between two variables by	PO 5

			correlation / regression.	
26.	Statistical Techniques for Business	Paper-II	CO 1: Students will be able to identify the components of Time Series.	PO 5
			CO 2: Students will be able to define the terms applied in the theory of Probability.	PO 5
			CO 3: Students will be able to describe control charts for variables & attributes.	PO 5/ PO 6
			CO4: Students will be able to explain types of Index Number.	PO 2
27.	E-commerce	Paper-I	CO 1: The students will be able to know the scope of E-commerce.	PO 1
			CO 2: The students will be able to implement new techniques of data interchange.	PO 3
			CO 3: The students will be able to discuss about connectivity and providers of internet.	PO 2
			CO 4: The students will be able to apply application of E-commerce.	PO 3
28.	E-commerce	Paper-II	CO 1: The students will be able to differentiate the ways of E-Payments	PO1
			CO 2: The students will be able to apply the control measures while operating with E-Commerce	PO2
			CO 3: The students will be able to design the webpage in E-Commerce	PO5
			CO 4: The students will be able to understand the E-Commerce in India	PO4
29.	Recent Trends in Marketing	Paper-I	CO 1: Students will be able to understand management information system.	PO1
			CO 2: Students will be able to Describe Marketing Communication and Direct Marketing.	PO2
			CO 3: Students will be able to explain customer relationship management	PO3
			CO 4: Students will be able to analyze rural marketing	PO5

30.	Recent Trends in Marketing	Paper-II	CO 1: Students will be able to understand online marketing.	PO4
			CO 2: Students will be able to explain retail marketing.	PO4
			CO 3: Students will be able to analyse global marketing.	PO5
			CO 4: Students will be able to describe emotional marketing.	PO5
31.	International Business	Paper-I	CO 1: The students will be able to identify and define the Meaning, Nature, importance and types of International Business.	PO3
			CO 2: It will make the students able to understand the International business environment and the theories related to it.	PO4
			CO 3: It will make the students able to analyse the Modes of Entry in international market, Marketing Mix, Factors Affecting Decision For International Business.	PO2
			CO 4: The students will be able to evaluate the trends in International Trade and Documentation.	PO3
32.	International Business	Paper-II	CO 1: The students will be able to identify and define the Finance aspects of international business, Capital Movement, Risk in International Operations, International Investment, Financing For Foreign trade.	PO3
			CO 2: It will make the students able to understand the trade blocks and business centres, regional economic groupings, major trade blocks - EEC, NAFTA, ASEAN, SAARC and BRICS.	PO3
			CO 3: It will make the students able to analyse the global sourcing and its impact on Indian Industry.	PO4

			CO 4: The students will be able to evaluate the country risk analysis of India, Japan, South East Asia and China with respect to Political, Social, Economic, Cultural and Ethical perspective.	PO4
33.	Financial Management	Paper-I	CO 1: Student will able to explain the conceptual framework of financial management.	PO1
			CO 2: Student will able to apply financial information for decision making.	PO2
			CO 3: Student will able to use theoretical information to determine financial plan and capital structure of the business.	PO2
			CO 4: Students will able to evaluate financial performance of the business organization by using different evaluation techniques.	PO4
34.	Financial Management	Paper-II	CO1: Student will able to explain the conceptual framework of financial management.	PO1
			CO 2: Student will able to apply financial information for decision making.	PO2
			CO 3: Student will able to use theoretical information to determine financial plan and capital structure of the business.	PO2
			CO 4: Students will able to evaluate financial performance of the business organization by using different evaluation techniques.	PO4
35.	Fundamentals of Business Laws and Tax Laws	Paper-I	CO 1: The students will be able to identify and define the concept of business law, its classification and source.	PO 1
			CO 2: It will make the students able to understand the all aspects of the Indian Contract	PO 1 / PO 2

			Act 1872.	
			CO 3: The students will be able to analyze the sales of Goods Act 1930 and the agreements related to it.	PO 4 / PO 5
			CO 4: The students will be able to evaluate the different concepts of Tax Laws.	PO 5
36.	Fundamentals of Business Laws and Tax Laws	Paper-II	CO 1: The students will be able to define and identify the Indian Companies Act 1956.	PO 1
			CO 2: The students will be able to understand the Negotiable instrument Act, 1881.	PO 2
			CO 3: It will make the students able to analyze the consumer protection Act 1986.	PO 2
			CO 4: The students will be able to evaluate the intellectual property right and Right to Information Act.	PO 5
37.	Foundation of human skills	Paper-I	CO 1: The students will be able to identify the different types of human skills.	PO 1
			CO 2: It will make students able to understand the concept of self discovery and learning.	PO 4
			CO 3: The students will be able to articulate the components of attitudes and sources of value.	PO 5
			CO 4: It will make students able to evaluate the functions of communication and to create its different styles.	PO 4
38.	Foundation of human skills	Paper-II	CO 1: The students will be able to identify and define the new skills in management.	PO 5
			CO 2: The students will be able to explain the aspects of personality and its different theories.	PO 1 / PO 2
			CO 3: The students will be able to analyze the different skill development methods.	PO 4
			CO 4: The students will be able to evaluate the different career anchors and utilize them in career development.	PO 5
39.		Paper-I	CO 1: The students will be able to	PO 1 /

	Practices in Modern Management		identify and define the Different approaches to management- Classical, Functional, Behavioural, Human relation, Contingency and System Approach. Management by Objectives.	PO 2
			CO 2: The students will be able to understand the Contribution of Michel Porter in Cost leadership, differentiation – and Focus.	PO 3
			CO 3: It will make the students able to analyse Internal and external environment, Environment Analysis, SWOT analysis.	PO 4 / PO 3
			CO 4: It will make the students able to evaluate the challenges and tasks, skills needed by manager in future, changes in managerial functions and evolving new managerial systems.	PO 3
40.	Practices in Modern Management	Paper-II	CO 1: The students will be able to identify and define the Concept of Social Responsibility, areas of Social Responsibility, Concept of Ethics, Ethical issues in business.	PO 1 / PO 2
			CO 2: The students will be able to understand the Meaning, Importance and Techniques of Time Management, Concept and Importance of Event Management, Types of Events.	PO 5
			CO 3: It will make the students able to analyse the stress and disaster Management, types of Stress, Management of stress.	PO 5
			CO 4: It will make the students able to evaluate the Strategic Management, Nature, Scope and Importance of Strategic	PO 2 /PO 5

			Management.	
41.	Research Methodology		CO 1: Students will be able to define various terms used in research process	PO 1
			CO 2: Students will be able to describe research design, sample design and sampling methods	PO 2
			CO 3: Students will be able to apply appropriate methods for data collection for research work	PO 4/ PO 5
			CO4: Students will be able to use appropriate statistical tools for data analysis and interpretation	PO 5/ PO 6
42.	project Work		CO1: Students will be able to write project report on the problem undertaken for study	PO 4 / PO 5

COURSE OUTCOMES BCA

BCA			
Sr .	Title of the Course	Course Outcomes	PO's Mapping
1	Fundamentals of Computers	CO 1: The students will be able to understand Hardware & Software, Applications of Computers in Various Fields	PO3
		CO 2: The students will be able to understand Peripheral Devices like Input Devices and Output Devices	PO1
		CO 3: The students will be able to know number Systems(like Decimal, Binary, Octal & Hexadecimal, Conversion from One base to another base) & Computer Codes like BCD, EBCDIC, ASCII	PO4
		CO 4: The students will be able to understand introduction to OS	PO1
2	Programming in 'C' Part-I	CO 1: The students will be able to understand Problem Solving Methods	PO2
		CO 2: The students will be able to understand History, features and characteristics of C	PO1
		CO 3: The students will be able to understand Conditional statements and Unconditional statements	PO3
		CO 4: The students will be able to know Arrays and Strings	PO3
3	Principles of Management	CO 1: The students will be able to understand the levels of management.	PO4
		CO2: The students will be able to know how to plan and organize.	PO4
		CO3: The students will be able to evaluate the selection and recruitment process.	PO4
		CO4: The students will be able to apply control measures.	PO4
4	Financial Accounting	CO 1: Student will able to identify the concept of book keeping and accounting.	PO1
		CO 2: Student will able to categorize business transactions according to accounting rules.	PO2
		CO 3: Student will able to calculate profit or loss of the business.	PO2
		CO 4: Student will estimate real value of asset after deducting depreciation.	PO2
5	Office Management And Communications	CO1: The students are able to understand the function of office management	PO4
		CO 2: The students are able to identify the	PO4

		factures affecting office layout	
		CO3: The students are able to classify the communication.	PO4
		CO4: The students are able to know the benefits and limitations	PO4
6	Lab Course Based on Paper-101	CO1: The students will be able to understand introduction ,installation & working of DOS	PO1
		CO2: The students will be able to know Internal and External commands	PO1
		CO3: The students will be able to understand creating folder, cut, copy, paste, managing file and folder in windows.	PO4
		CO4: The students will be able to know Adding and removing software & hardware & Settings of all control panel items	PO4
7	Lab Course Based on Paper-102	CO1: The students will be able to understand the basic concept of Algorithm & sflowchart	PO1
		CO2: The students will be able to understand how to use Printf() and scanf()	PO4
		CO3: The students will be able to understand for, while .if...else loop	PO4
		CO4: The students will be able to understand programs on matrices like addition, subtraction & multiplication and transpose	PO4
8	Software Packages	CO1: The students will be able to understand the creation and formulation of documents.	PO1
		CO2: The students will be able to design and analyze the information in Excel	PO1
		CO3: The students will be able to generate presentation in PowerPoint.	PO3
		CO4: The students will be able to invent animated presentation.	PO4
9	Programming in 'C' Part-II	CO1: The students will be able to understand user define function	PO1
		CO2: The students will be able to understand how to declared and initialize pointers,	PO2
		CO3: The students will be able to understand defining and processing structure & Unions.	PO1
		CO4: The students will be able to understand File Handling	PO4
10	Bank Management	CO1: The students are able to understand the nature of Bank Management.	PO4
		CO2: The students are able to understand the liquidity and credit management.	PO4
		CO3: The students are able to know about the long term & short term fund .	PO4
		CO4: The students are able to aware about recent technologies required to be adopted	PO4

		for efficient	
11	Financial Accounting with Tally	CO1: Student will able to make financial report of non-profit making organizations	PO2
		CO2: Student will able to distinguish between non-profit making organization and limited company accounting.	PO1
		CO3: Student will able to operate Tally for maintaining accounting information.	PO2
		CO4: Student will able to generate various accounting reports using Tally accounting software.	PO2
12	Principles of Marketing	CO1: The students will be able to differentiate the core concepts of marketing.	PO4
		CO2: The students will be able to discuss the marketing mix.	PO4
		CO3: The students will be able to know the techniques applied in E-marketing.	PO4
		CO4: The students will be able to know the state of consumer behavior.	PO4
13	Lab Course Based on Paper- 201, 204	CO1: The students will be able to create and formulate the documents.	PO4
		CO2: The students will be able to design and analyze the information in Excel.	PO4
		CO3: The students will be able to generate presentation in PowerPoint.	PO4
		CO4: The students will be able to invent animated presentation.	PO4
14	Lab Course Based on Paper- 202	CO1: The students are able to create Programs it based on user defined functions	PO4
		CO2: The students are able to understand recursion, pointer and structure	PO4
		CO3: The students are able to know structure and pointer	PO4
		CO4: The students are able to create	PO4
15	Cost Accounting	CO1: Students will able explain the difference between cost accounting and financial accounting.	PO1
		CO2: Students will able to articulate different elements of costs to control the costs in business.	PO1
		CO3: Students will able to calculate the cost by using different costing methods.	PO2
		CO4: Candidate will able to assess the cost and financial statements and reconcile the balance between these statements.	PO2

16	HRM	CO1: The students will be able to know the functions of Human Resource Management.	PO4
		CO2: The students will be able to know how to plan and develop.	PO4
		CO3: The students will be able to differentiate the administrative practices.	PO4
		CO4: The students will be able to know the separations practices.	PO4
17	System Analysis & Design	CO1: The students will be able to know introduction to System Concept	PO1
		CO2: The students will be able to analyze Role and traits	PO3
		CO3: The students will be able to understand Input output Design and file Design.	PO1
		CO4: The students will be able to know Software testing strategies like Unit testing, integration, testing, Validation testing, System testing,	PO4
18	Object Oriented Programming with C++	CO1: The students will be able to understand introduction to C++ and its functions like inline function, function overloading.	PO1
		CO2: The students will be able to understand basic concept of OOP	PO1
		CO3: The students will be able to construct the program of Constructor, destructors, & inheritance constructor	PO2
		CO4: The students will be able to understand Polymorphism and file handling	PO2
19	Computer Oriented Statistical Methods	CO1: students will be able to various term used in Statistics.	PO 1
		CO2: students will be able to identify applications of statistics in industry, Economics and management Science.	PO 2
		CO3: It will make students able to understand the Measures of Central Tendency and Dispersion	PO 1
		CO4: The students will be able to understand Correlation and Regression.	PO 1
20	Lab Course Based on Paper No. 304	CO1: The students will be able to construct simple C++ Programs without Class.	PO2
		CO2: The students will be able to define the concept based on class	PO1
		CO3: The students will be able to create program based on Constructor, destructor & inheritance	PO2
		CO4: The students will be able to understand the concept of Object Oriented Programming.	PO1
21	Lab Course	CO1: The students will be able to define the	PO3

	Based on Paper No. 305 (Using MS-Excel)	concept and Formatting of frequency distribution	
		CO2: It will make students able to understand the pie chart, bar diagrams,	PO3
		CO3: The students will be able to understand Analysis of Bivariate data	PO3
		CO4: The students will be able to calculate measures of central tendency and measures of variability	PO3
		CO5: The students will be able to understand Sampling Techniques and Time Series Analysis	PO3
22	Entrepreneurship Development	CO1: Candidate can be identify concept of entrepreneur entrepreneurship, like between entrepreneurship and eco- development (know) techniques & methods, data types	P04
		CO2: Candidate can express about factor influencing entrepreneurship development as well as recourse behind entry of entrepreneur in entrepreneurship (understand)	P04
		CO3: Candidate can be use information of entrepreneurship & support system to enter in entrepreneurship to be an entrepreneur	P04
		CO4: Candidate can be differentiate people their future career (analyse)	P04
		CO5 Candidate can design or development program (Create)	P04
		CO6 Candidate can be prepare feasibility report for the new business enterprise or new project	P04
		CO7 Candidate can be collect information for development or identification of new business idea through the environmental study (create)	P04
23	Organizational Behavior	CO1: The students will be able to know the scope of Organizational Behavior.	PO4
		CO2: The students will be able to understand the importance of attitude, values and motivation.	PO4
		CO3: The students will be able to analyze the different aspects of personality.	PO4
		CO4: The students will be able to evaluate the group behavior and work accordingly it.	PO4
24	DBMS using MS-Access.	CO1: The students will be able to know the need of database management system.	PO1
		CO2: The students will be able to understand the functions of database management system.	PO1
		CO3: The students will be able to evaluate data in the normal form.	PO3
		CO4: The students will be able to understand	PO4

		organization of file.	
25	Web Technology	CO1: The students will be able to understand the concept of Internet and browsing.	PO1
		CO2: The students will be able to implement CSS in web page.	PO2
		CO3: The students will be able to invent event handling and validation.	PO2
		CO4: The students will be able to invent animated presentation.	PO2
		CO5: The students will be able to understand server side scripting	PO1
26	Computer Mathematics	CO1: Students will be able to define various terms used in SET THEORY and its applications	PO 1
		CO2: Students will be able to select graphical tools for data presentation and frequency distribution using graph theory	PO 1
		CO3: Students will be able to calculate applications related to matrix and determinant theory	PO 1
		CO4: Students will be able to examine logic theory and its business applications through LOGIC theory.	PO 1
27	Lab Course Based on Paper No. 403 & 404	CO1: The students will be able to create tables in MS ACCESS.	PO4
		CO2: The students will be able to evaluate the relations between tables.	PO2
		CO3: The students will be able to understand the creating forms and inputting values.	PO4
		CO4: The students will be able to generate Web page	PO4
28	Mini Project.	CO1: Design application software after understanding the problem	PO4
		CO2: Design application for application	PO4
		CO3: Design input form, output report & interface	PO4
		CO4: Prepare report document	PO4

29	Management Accounting	CO1: Students will able explain the difference between cost accounting and financial accounting and management accounting.	PO1
		CO2: Students will able to apply different financial statement analysis tools for management decision making.	PO2
		CO3: Students will able to compare the cost for make or buy product, shut down or continue business or alternative decisions by using cost volume profit analysis technique.	PO2
		CO4: Candidate will able to prepare budget to control the cost of specific to overall objects of a business organizations.	PO2
30	E-Commerce	CO1: The students will be able to know the functioning of E-Commerce	PO1
		CO2: The students will be able to differentiate the ways of E	PO1
		CO3: The students will be able to apply the control measures while operating with E	PO2
		CO4: The students will be able to understand the solution used for controlling the E	PO1
31	Computer Network	CO1: The students will be able to understand Data Communication concept	PO1
		CO2: The students will be able to apply Reference Models and transmission media	PO1
		CO3: The students will be able to knowing different layers like Network layer and Transport layer	PO3
		CO4: The students will be able to Understand protocols	PO1
32	RDBMS with Oracle	CO1: The students will be able to understand the concept of relational Database Management System	PO1
		CO2: The students will be able to understand how to Write and Execute SQL Queries.	PO2
		CO3: The students will be able to understand how to Write and Execute Join & Sub queries.	PO2
		CO4: The students will be able to understand Procedure of Block of statement	PO4
33	Visual Programming	CO1: The students will be able to understand Architecture, Features of .NET	PO1
		CO2: The students will be able to understand basic concepts of C#	PO1
		CO3: The students will be able to create web programming	PO2
		CO4: The students will be able to understand Introduction to ADO.Net &its Architecture	PO1

34	Lab Course based on 504 and 505	CO 1: The students will be able to understand Architecture, Features of .NET	PO1
		CO2: The students will be able to create web programming	PO1
		CO3: The students will be able to create queries by using Oracle functions & Clauses Clauses.	PO4
		CO4: The students will be able to understand Branching and Looping Statements	PO4
35	Mini Project	CO1: Design application software after understanding the problem	PO4
		CO2: Design application for application	PO4
		CO3: Design input form, output report and interface	PO4
		CO4: Prepare report document	PO4
36	Strategic Management	CO1: Student will be able to know about strategic management & its process	PO1
		CO2: Student will be able to understand different level of strategic	PO1
		CO3: Utilize strategic management process to help with formulation of organizational vision, mission and goals	PO1
		CO4: Student will be able to know about inter relationship between strategy formulation & Evaluation	PO2
37	Data Mining and Data Warehousing	CO1: The students will be able to understand the concept of Data mining and warehouse	PO1
		CO2: The students will be able to understand the concept of promotion, transfer and demotion.	PO1
		CO3: It will make the students able to analyze the different data by using Clustering and its algorithm	PO1
		CO4: The students will be able to understand Software for Data mining and application of Data mining	PO1
38	Linux Operating System	CO1: The students will be able to understand Linux Operating system, kernel and basic Shell	PO1
		CO2: It will make the students able to understand the concept of File handling and directories	PO2
		CO3: The students will be able to apply the different types of command in vi editor	PO1
		CO4: The students will be able to understand Simple shell programming Language	PO4
39	Java Programming	CO1: The students will be able to identify and define the java programming related aspects.	PO1

		CO2: The students will be able to create and access the package.	PO2
		CO3: The students will be able to construct projects.	PO4
		CO4: The students will be able to build up applet code.	PO4
40	Lab Course based on Paper no.- 603	CO1: The students will be able to understand Concept of Login and logout Procedure	PO4
		CO2: The students will be able to understand Change file access permissions using chmod and confirm using ls -l command	PO4
		CO3: The students will be able to Use of filter commands	PO4
		CO4: The students will be able to understand Shell script and its looping concept(if..else, while, for, switch)	PO4
41	Lab Course based on Paper no. 604	CO1: The students will be able to create java programs.	PO4
		CO2: The students will be able to create and access the package.	PO4
		CO3: The students will be able to construct projects.	PO4
		CO4: The students will be able to build up applet code.	PO4
42	Major Project	CO1: Design application software after understanding the problem	PO4
		CO2: Design application for application	PO4
		CO3: Design input form, output report and interface	PO4
		CO4: Prepare report document	PO4