

**DEPARTMENT OF COMMERCE AND
MANAGEMENT STUDIES
BACHELOR OF COMMERCE (B.COM)
Programme Outcomes**

PO1	The students will get new ideas, insights and thoughts. The mindset of students will change. They get new ideas and practical experience. Such students can face challenges with confidence and succeed in life.
PO2	The students will be thorough with the procedures and formalities of establishment and management of business units. As all aspects are well debated, it will be easy for them to establish and successfully run business units.
PO3	The students will be conversant with the various accounting principles and practices. All will be capable of recording, generating financial reports and arriving at conclusions and predictions.
PO4	The inter-disciplinary approach will help students to solve business issues easily and will emerge as successful entrepreneurs in future.
PO5	The multidisciplinary in-depth learning across all related topics of business and industry will definitely pave a strong foundation for higher learning in commerce and management.
PO6	In depth understanding of management principles will help to create managerial aptitude and skills in students will foster successful managers for future.
PO7	In depth understanding of accounting principles and practices coupled with interdisciplinary learning will help to create newer ideas in accounting and will bring in innovative and creative professionals in Finance, Cost and Management.
PO8	The knowledge of direct and indirect taxation will open up a new area of living by students. Information on both direct and indirect taxation systems will cut open a wider area of employment and professionalism.
PO9	The improved communication skills and basic understanding of laws in force of the country will definitely add to the content level and level of interaction by students.
PO10	Students become more confident, self-reliant, competent and Competitive with practical insights and thorough learning.

B.COM FINANCE

PROGRAMME SPECIFIC OUTCOME:

PSO1	To develop their knowledge in areas such as accounting, taxation, auditing, risk management, financial accounting, managerial economics, business law, and business communication.
PSO2	To facilitate the students to join professional courses provides students with an understanding of the essential traits and areas of expertise required to work as financial experts
PSO3	To provide career opportunities such as investment and portfolio management, equity market analysis, mutual fund analysis, capital market analysis, accounting, and financial fields.
PSO4	To provide students with a strong foundation in finance, accounting, and ethics so that they can contribute to society as a whole

PROGRAMME EDUCATIONAL OBJECTIVES

PEO1	A solid foundation of knowledge in commerce, accounting, finance, management, and related disciplines.
PEO2:	The program aims to develop graduates who possess the necessary skills and competencies to succeed in professional careers in commerce and related fields. This includes proficiency in financial analysis, taxation, auditing, business law, and other specialized areas relevant to commerce.
PEO3:	The B. Com program seeks to nurture graduates who demonstrate personal growth, ethical behaviour, effective communication skills, and the ability to work collaboratively in diverse teams.

Shanku Menon

PRINCIPAL
Parameshwari College of Arts and Science
Thrissur-02



COURSE OUTCOMES: B.COM FINANCE

SEMESTER I		
Core/Common/ Complimentary	Course Code & Name of Course	Course Outcomes
Core	BCM1B01 Business Management	1. Understand the concept of Management.
		2. Understand the importance of Management in a global perspective
		3. Understand the differences between management and leadership in real life situations.
		4. Analyze the concept of corporate social responsibility towards various stake holders.
		5. Understand about the most modern techniques of management practiced in developed countries.
Complimentary courses	BCM1C01 Managerial Economics	1. Understand Macro & Micro economics & its role in managerial decision making.
		2. Understand the concept of law of diminishing marginal utility theory.
		3. Understand the structure and importance of different types of markets.

		4. Understand the role played by government in regulating Indian economy
		5. Understand a conceptual knowledge regarding India's foreign trade and the application of this knowledge in securing business opportunities.

SEMESTER II

Core courses	BCM2B02 Financial Accounting	1. Students learn to prepare accounts even from incomplete information
		2. The learner learns to prepare Company accounts.
		3. Understands the concept of debentures and learns to account for debentures
		4. Understand the application of IFRS in Companies
		5. Critically learns 'AS' and IFRS.
Complementary courses	BCM2C02 Marketing Management	1. The learner understands the core marketing concepts and consumer buying behaviour...
		2. The Scholar learns the concept of creating and capturing value
		3. Understand the concept of marketing channels in the competitive environment
		4. Learns to enrich the firm's competitive strength

		5. Understand and develop an idea about the latest trends in e-commerce and e-marketing
SEMESTER III		
Common courses	BCM3A11 Basic Numerical Methods	1. The learner learns the concepts of equations and quadratic formula.
		2. Facilitates the scholar to use matrices for large volume data processing
		3. This helps to solve problems involving arithmetic and geometric progressions
		4. Able to choose the right mode of interest and EMI for debt repayment
		5. Develop the skill of using descriptive statistical tools.

Suresh Kumar



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Paramakkavu College of Arts and Science
Thiruvananthapuram-02

Common courses	BCM3A12 Professional Business Skills	1. Facilitates easy business communication
		2. Improved knowledge of E-learning resources and its delivery broadens vision and insight of management.
		3. Knowledge of artificial intelligence and data analysis helps to diversify and grow business cutting across obstacles
		4. Knowledge of existing national and international cyber laws makes communication and business easier.
		5. Digital marketing and its application of social media channels and advertisements enhances changes and horizon of business.
Core courses	BCM3B03-Business regulation	1. Helps to establish and run business as directed by the government.
		2. Knowledge of Indian Contract Act 1872 helps to enter into valid contracts in life and business
		3. Learning of Sale of Goods Act helps to do business keeping all legal formalities
		4. Understanding of the privileges and rights of consumers helps to do legally standing business admitting the status of the customers; increases business and relationships in the long run
		5. Able to create LLP business with sound legal knowledge.

Core courses	BCM3B04 Corporate Accounting	1. Becomes competent to prepare accounts related with redemption of preference shares, bonus shares, right issue of shares and buy back of shares.
		2. Realizes the concept of preparation of final accounts of banking companies.
		3. Develop the skill of preparation of final accounts of life insurance companies.
		4. Able to prepare the final accounts of group companies
		5. Understand the concept of disclosure-based accounting standard and interim reporting

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Thiruvananthapuram-02

Complementary courses	BCM3C03 Human Resources Management	1. Knowledge of human resource management helps to run business effectively.
		2. Understand the necessary skills required for the employment in an organization.
		3. Familiarity with the induction and organizational training practices helps to have effective trained work force in the organisation
		4. Understand the concept of career planning and performance appraisal.
		5. Insight on compensation and grievance management practices helps to take effective and appropriate decisions on time.
SEMESTER IV		
Common courses	BCM4A13 Entrepreneurship Development	1. It motivates the learner to become an entrepreneur
		2. Knowledge of supports available helps to reap the benefits of easily
		3. It is intended to trigger the mind set of youth to establish and run MSMEs in life
		4. Knowledge of establishing industrial units helps to start with business units easily.
		5. The learner can draft and finalize project report without external helps and supports.
Common courses	BCM4A14 Banking and Insurance	1. Candidates get clear picture of the banking business India and he can plan accordingly.
		2. Knowledge of negotiable instruments, features & formalities helps to deal with care
		3. This helps the candidate to be up-to-date in banking formalities and fund transfer.
		4. Knowledge of insurance business helps to hedge, avoid, and reduce risk in business.
		5. Knowledge of LIC and IRDA helps to move with Insurance people with confidence.

Core courses	BCM4B05 Cost Accounting	1. The learner gets insights into the costing and cost accounting tools and techniques.
		2. The learner understands the scientific material cost control measures in use
		3. The scholar gets used to the scientific labour and overhead cost control measures
		4. Knowledge of various methods of costing helps the learner to practice in life
		5. Variance analysis helps to identify its causes and take corrective actions
Core courses	BCM4B06 Corporate Regulations	1. Knowledge of Indian Companies Act gives the legislative backgrounds of a company.
		2. The candidate knows the formalities for formation of a company which will help to form more corporates in life.
		3. The knowledge of raising funds will help the candidate to choose between debt and equity easily
		4. The candidate can easily manage a company as he knows the rights, duties and powers of all positions
		5. Knowledge of situations when a company may go for liquidation helps to run the business effectively

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Complementary courses	BCM4C04 Quantitative Techniques for Business	1. Knowledge of QT broadens vision and outlook of the candidate to face business problems.
		2. Understanding of correlation and regression analysis helps to predict with greater degree of accuracy.
		3. Awareness of probability and other theories helps to have critical thinking and rational decisions.
		4. Familiarity with theoretical distributions helps to correlate issues with standard theories and take decisions
		5. Knowledge of LPP and modeling will be of great help in decision making

SEMESTER V

Core courses	BCM5B07 Accounting for Management	1. To make the learner aware of the methodologies of Management Accounting
		2. It is to make the candidate learn how to conceive and interpret financial statements
		3. Ratios are very helpful tools for analysis and interpretations
		4. Knowledge of movements in working capital helps to check/control flow of funds/cash.
		5. Knowledge of CVP analysis will be of great help for managerial decision making
Core courses	BCM5B08 Business Research Methods	1. The learner knows the primary matters of business research

		2. The student knows how to fix a research design, scaling checking validity etc.
		3. The candidate knows the method of data collection and its processing and validation.
		4. The learner knows to process collected data, test hypothesis and arrive at conclusions
		5. The student knows well how to write an academic report and present it

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Thrissur-02

Core courses	BCM5B09 Income Tax Law and Accounts	1. To understand the method and methodology of taxation on income in India.
		2. To learn the provisions related to computation of Taxable Salary Income
		3. Knowledge of taxing income from house property helps the learner to compute taxable income under the head House Property correctly.
		4. Knowledge of computing income under the head profits and gains of business or profession helps the learner to do it effectively in life.
		5. Knowledge of computing income under the head Capital Gains and other sources makes the learner self-confident and competent to practice income tax.
Core courses	BCM5B10 Financial Markets and Services	1. The learner acquires thorough knowledge about the financial markets and products available
		2. The scholar understands Indian Money Market, Players in the market, Instruments traded, and their functions
		3. The candidate gets clear idea of the composition Indian Capital Market, Who all are the major players in it, how indices are constructed and major indices in use. This will help the candidate to enter such a market with confidence.
		4. The student gets acquainted with various NBFCs in playing in India, major instruments traded in the country, factoring, leasing etc.
		5. The scholar gets clear idea of the regulatory mechanism in India and role of RBI and SEBI in enforcing transparent fair dealings. This will help the candidate to master the topic easily with confidence

Core courses	BCM5B11 Financial Management	1. Knowledge of financial management and time of value money helps decisions making effective.
		2. Understanding of capital investment evaluation techniques makes investment selection easier
		3. Familiarity with cost of capital helps to use capital judiciously
		4. Knowledge of dividend policies helps to take appropriate decision on dividend
		5. Helps to have effective working capital management.
	BCM5D01 Open Course	

SEMESTER VI

Core courses	BCM6B12 Income Tax and GST	1. Students will be able to Compute tax liability of individuals
		2. The Learner can do filing of returns of income meeting statutory obligations
		3. . The scholars understand the concept of GST and e-filing procedures
		4. The candidates understand the offences and penalties under the Acts
		5. The Learner learns the rights, duties and powers of CAG and tax authorities.

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Core courses	BCM6B13 Auditing and Corporate Governance	1. Knowledge of auditing helps gives newer insights and wide vision on the topic.
		2. Learns to do verification, vouching and valuation independently
		3. Knows how to set internal control system effectively to check frauds, errors and omissions.
		4. Solid understanding of the models and benefits of corporate governance
		5. Evaluate different stakeholders' roles and significance in corporate governance
Core courses	BCM6B14 Fundamentals of Investments	1. Develops a broad understanding of the concept of investment management
		2. Learn security valuation of bonds, preference shares and equity shares
		3. Study calculation of return on investment and expected return through examples
		4. Understand analysis of securities, approaches, tools, stock charts, patterns and theories

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		5. Understands portfolio management, analysis and redress issues easily
Core courses	BCM6B15 Financial Derivatives	1. This helps to master capital market segment and derivatives market
		2. This develops knowledge on derivatives trading and its legal framework
		3. It helps to differentiate between various types of derivatives
		4. Understand the trading strategies adopted on option trading
		5. It helps to learn forwards, futures, and swaps.
Core Project	BCM6B16 (PR) Three Weeks Project and Viva-Voce	1. Students get clear idea on idea generation, topic selection, factors to be considered before selection of a topic, drafting methodology, sampling, etc.
		2. Gets insight on collection, tabulation, processing, analysis and interpretation of data clearly.
		3. Students get clarity of expressions and judgments
		4. Students get acquainted with the forms, formalities and methodology of presenting an academic document
		5. It improves skill, enthusiasm and a spirit of inquisitiveness among younger generations to look further and further and elicit hidden facts before the academia

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Thrissur-02

B.COM COOPERATION

PROGRAMME SPECIFIC OUTCOME:

PSO1	Graduates should demonstrate a thorough understanding of cooperative principles, including democratic governance, member participation, autonomy, and social responsibility within the cooperative context.
PSO2	Students should be proficient in financial management techniques specific to cooperative organizations, including budgeting, financial reporting, cost control, and financial analysis.
PSO3	Graduates should have a comprehensive understanding of the legal and regulatory frameworks governing cooperative societies, including laws related to formation, management, taxation, and compliance.
PSO4	Students should be capable of applying cooperative business strategies and operational techniques in practical scenarios, including business planning, marketing strategies, risk management, and strategic decision-making tailored to cooperative enterprises.

PROGRAMME EDUCATIONAL OBJECTIVES

PEO1	A solid foundation of knowledge in commerce, accounting, finance, management, and related disciplines.
PEO2:	The program aims to develop graduates who possess the necessary skills and competencies to succeed in professional careers in commerce and related fields. This includes proficiency in financial analysis, taxation, auditing, business law, and other specialized areas relevant to commerce.
PEO3:	The B. Com program seeks to nurture graduates who demonstrate personal growth, ethical behaviour, effective communication skills, and the ability to work collaboratively in diverse teams.

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COURSE OUTCOMES: B.COM COOPERATION

Semester I		
Core/Common/ Complimentary	Course Code & Name of Course	Course Outcomes
Core courses	BCM1B01 Business Management	1. Understand the concept of Management.
		2. Understand the importance of Management in a global perspective
		3. Understand the differences between management and leadership in real life situations.
		4. Analyze the concept of corporate social responsibility towards various stake holders.
		5. Understand about the most modern techniques of management practiced in developed countries.
Complementary courses	BCM1C01 Managerial Economics	1. Understand Macro & Micro economics & its role in managerial decision making.
		2. Understand the concept of law of diminishing marginal utility theory.
		3. Understand the structure and importance of different types of markets.
		4. Understand the role played by government in regulating Indian economy
		5. Understand a conceptual knowledge regarding India's foreign trade and the application of this knowledge in securing business opportunities.
Semester II		

Core courses	BCM2B02 Financial Accounting	1. Students learn to prepare accounts even from incomplete information
		2. The learner learns to prepare Company accounts.
		3. Understands the concept of debentures and learns to account for debentures
		4. Understand the application of IFRS in Companies
		5. Critically learns 'AS' and IFRS.
Complementary courses	BCM2C02 Marketing Management	1. The learner understands the core marketing concepts and consumer buying behaviour...
		2. The Scholar learns the concept of creating and capturing value
		3. Understand the concept of marketing channels in the competitive environment
		4. Learns to enrich the firm's competitive strength
		5. Understand and develop an idea about the latest trends in e-commerce and e-marketing
Semester III		
Common courses	BCM3A11 Basic Numerical Methods	1. The learner learns the concepts of equations and quadratic formula.

		<p>2. Facilitates the scholar to use matrices for large volume data processing</p>
		<p>3. This helps to solve problems involving arithmetic and geometric progressions</p>
		<p>4. Able to choose the right mode of interest and EMI for debt repayment</p>
		<p>5. Develop the skill of using descriptive statistical tools.</p>
Common courses	BCM3A12 Professional Business Skills	<p>1. Facilitates easy business communication</p>
		<p>2. Improved knowledge of E-learning resources and its delivery broadens vision and insight of management.</p>
		<p>3. Knowledge of artificial intelligence and data analysis helps to diversify and grow business cutting across obstacles</p>
		<p>4. Knowledge of existing national and international cyber laws makes communication and business easier.</p>
		<p>5. Digital marketing and its application of social media channels and advertisements enhances changes and horizon of business.</p>
Core courses	BCM3B03-Business regulation	<p>1. Helps to establish and run business as directed by the government.</p>
		<p>2. Knowledge of Indian Contract Act 1872 helps to enter into valid contracts in life and business</p>

		<p>3. Learning of Sale of Goods Act helps to do business keeping all legal formalities</p>
		<p>4. Understanding of the privileges and rights of consumers helps to do legally standing business admitting the status of the customers; increases business and relationships in the long run</p>
		<p>5. Able to create LLP business with sound legal knowledge.</p>
Core courses	BCM3B04 Corporate Accounting	<p>1. Becomes competent to prepare accounts related with redemption of preference shares, bonus shares, right issue of shares and buy back of shares.</p>
		<p>2. Realizes the concept of preparation of final accounts of banking companies.</p>
		<p>3. Develop the skill of preparation of final accounts of life insurance companies.</p>
		<p>4. Able to prepare the final accounts of group companies</p>
		<p>5. Understand the concept of disclosure-based accounting standard and interim reporting</p>
Complementary courses	BCM3C03 Human Resources Management	<p>1. Knowledge of human resource management helps to run business effectively.</p>
		<p>2. Understand the necessary skills required for the employment in an organization.</p>
		<p>3. Familiarity with the induction and organizational training practices helps to have effective trained work force in the organisation</p>
		<p>4. Understand the concept of career planning and performance appraisal.</p>

		5. Insight on compensation and grievance management practices helps to take effective and appropriate decisions on time.
Semester IV		
Common courses	BCM4A13 Entrepreneurship Development	1. It motivates the learner to become an entrepreneur
		2. Knowledge of supports available helps to reap the benefits of easily
		3. It is intended to trigger the mind set of youth to establish and run MSMEs in life
		4. Knowledge of establishing industrial units helps to start with business units easily.
		5. The learner can draft and finalize project report without external helps and supports.
Common courses	BCM4A14 Banking and Insurance	1. Candidates get clear picture of the banking business India and he can plan accordingly.
		2. Knowledge of negotiable instruments, features & formalities helps to deal with care
		3. This helps the candidate to be up-to-date in banking formalities and fund transfer.
		4. Knowledge of insurance business helps to hedge, avoid, and reduce risk in business.
		5. Knowledge of LIC and IRDA helps to move with Insurance people with confidence.

Core courses	BCM4B05 Cost Accounting	1. The learner gets insights into the costing and cost accounting tools and techniques.
		2. The learner understands the scientific material cost control measures in use
		3. The scholar gets used to the scientific labour and overhead cost control measures
		4. Knowledge of various methods of costing helps the learner to practice in life
		5. Variance analysis helps to identify its causes and take corrective actions
Core courses	BCM4B06 Corporate Regulations	1. Knowledge of Indian Companies Act gives the legislative backgrounds of a company.
		2. The candidate knows the formalities for formation of a company which will help to form more corporates in life.
		3. The knowledge of raising funds will help the candidate to choose between debt and equity easily
		4. The candidate can easily manage a company as he knows the rights, duties and powers of all positions
		5. Knowledge of situations when a company may go for liquidation helps to run the business effectively

Complementary courses	BCM4C04 Quantitative Techniques for Business	1. Knowledge of QT broadens vision and outlook of the candidate to face business problems.
		2. Understanding of correlation and regression analysis helps to predict with greater degree of accuracy.
		3. Awareness of probability and other theories helps to have critical thinking and rational decisions.
		4. Familiarity with theoretical distributions helps to correlate issues with standard theories and take decisions
		5. Knowledge of LPP and modeling will be of great help in decision making
Semester V		
Core courses	BCM5B07 Accounting for Management	1. To make the learner aware of the methodologies of Management Accounting
		2. It is to make the candidate learn how to conceive and interpret financial statements
		3. Ratios are very helpful tools for analysis and interpretations
		4. Knowledge of movements in working capital helps to check/control flow of funds/cash.

		5. Knowledge of CVP analysis will be of great help for managerial decision making
Core courses	BCM5B08 Business Research Methods	<ol style="list-style-type: none"> 1. The learner knows the primary matters of business research 2. The student knows how to fix a research design, scaling checking validity etc. 3. The candidate knows the method of data collection and its processing and validation. 4. The learner knows to process collected data, test hypothesis and arrive at conclusions 5. The student knows well how to write an academic report and present it
Core courses	BCM5B09 Income Tax Law and Accounts	<ol style="list-style-type: none"> 1. To understand the method and methodology of taxation on income in India. 2. To learn the provisions related to computation of Taxable Salary Income 3. Knowledge of taxing income from house property helps the learner to compute taxable income under the head House Property correctly. 4. Knowledge of computing income under the head profits and gains of business or profession helps the learner to do it effectively in life. 5. Knowledge of computing income under the head Capital Gains and other sources makes the learner self-confident and competent to practice income tax.

Core courses	BCM5B10 Co-operative Theory and Practice	1. It helps to learn about cooperation, cooperative movement and its principles
		2. It facilitates a comparative study of cooperation and other economic systems
		3. It helps to learn cooperative training houses and methods of training
		4. Idea on different types of cooperatives helps to choose from as when needed
		5. History of successful business houses motivates to start new cooperative business houses.
Core courses	BCM5B11 Legal Environment For Co-operatives	1. Knowledge of cooperative movement in India helps to form new cooperatives.
		2. Knowledge of cooperative legislations helps to go by law and take valid decisions.
		3. Learning of Kerala Cooperative Societies Act helps to run societies easily.
		4. Administrative set up of Cooperatives helps to contact the right person at the right time.
		5. Banking Regulation Act helps to have a comparative study of both the Acts.
	BCM5D01 Open Course	
Semester VI		
Core courses	BCM6B12 Income Tax and GST	1. Students will be able to Compute tax liability of individuals

		<p>2. To learn the provisions related to computation of Taxable Salary Income</p>
		<p>3. Knowledge of taxing income from house property helps the learner to compute taxable income under the head House Property correctly.</p>
		<p>4. Knowledge of computing income under the head profits and gains of business or profession helps the learner to do it effectively in life.</p>
		<p>5. Knowledge of computing income under the head Capital Gains and other sources makes the learner self-confident and competent to practice income tax.</p>
Core courses	BCM6B13 Auditing and Corporate Governance	<p>1. Knowledge of auditing helps gives newer insights and wide vision on the topic.</p>
		<p>2. Learns to do verification, vouching and valuation independently</p>
		<p>3. Knows to set internal control system effectively to check frauds, errors and omissions.</p>
		<p>4. Solid understanding of the models and benefits of corporate governance</p>
		<p>5. Evaluate different stakeholders' roles and significance in corporate governance</p>
Core courses	BCM6B14 International Co-operative Movement	<p>1. Acquire knowledge about the cooperative movement in the world</p>

		2. Understand the structure and aim of international alliances
		3. Be aware about the significance of international organizations.
		4. Impart knowledge on the inter-cooperative relations in the country.
		5. To give a picture of cooperation and to learn the contributions of Experts in the field.
Core courses	BCM6B15 Co-operative Management and Administration	1. Understand the concepts and characteristics of cooperatives
		2. Understand the functional and management aspects of cooperatives
		3. Develop an insight about cooperative leadership
		4. Equip students with preparation of documents and financial statements
		5. Develop skills do verification and valuation of assets and liabilities.
Core Project	BCM6B16 (PR) Three Weeks Project and Viva-Voce	1. Students get clear idea on idea generation, topic selection, factors to be considered before selection of a topic, drafting methodology, sampling, etc.
		2. Gets insight on collection, tabulation, processing, analysis and interpretation of data clearly.
		3. Students get clarity of expressions and judgments
		4. Students get acquitted with the forms, formalities and methodology of presenting an academic document
		5. It improves skill, enthusiasm and a spirit of inquisitiveness among younger generations to look further and further and elicit hidden facts before the academia

B.COM COMPUTER APPLICATION

PROGRAMME SPECIFIC OUTCOME:

PSO1	To make the students efficient in office automation with computers and computer software applications
PSO2	To facilitate the students to join professional courses
PSO3	To develop subject skill within various discipline of commerce, business, accounting, economics, finance, auditing and marketing with soft skills in Tally and ERP, E-commerce.
PSO4	Graduates should be capable of integrating IT solutions with business processes to enhance efficiency, productivity, and decision-making capabilities within organizations.

PROGRAMME EDUCATIONAL OBJECTIVES

PEO1	A solid foundation of knowledge in commerce, accounting, finance, management, and related disciplines.
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COURSE OUTCOMES: B.COM COOPERATION

Core/Common/ Complimentary	Course Code & Name of Course	Course Outcomes
Core courses	BCM1B01 Business Management	1. Understand the concept of Management.
		2. Understand the importance of Management in a global perspective
		3. Understand the differences between management and leadership in real life situations.
		4. Analyze the concept of corporate social responsibility towards various stake holders.
		5. Understand about the most modern techniques of management practiced in developed countries.
Complimentary courses	BCM1C01 Managerial Economics	1. Understand Macro & Micro economics & its role in managerial decision making.
		2. Understand the concept of law of diminishing marginal utility theory.
		3. Understand the structure and importance of different types of markets.
		4. Understand the role played by government in regulating Indian economy
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Semester II		

Core courses	BCM2B02 Financial Accounting	1. Students learn to prepare accounts even from incomplete information
		2. The learner learns to prepare Company accounts.
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		5. Critically learns 'AS' and IFRS.
Complementary courses	BCM2C02 Marketing Management	1. The learner understands the core marketing concepts and consumer buying behaviour...
		2. The Scholar learns the concept of creating and capturing value
		3. Understand the concept of marketing channels in the competitive environment
		4. Learns to enrich the firm's competitive strength
		5. Understand and develop an idea about the latest trends in e-commerce and e-marketing
Semester III		
Common courses	BCM3A11 Basic Numerical Methods	1. The learner learns the concepts of equations and quadratic formula.

		<p>2. Facilitates the scholar to use matrices for large volume data processing</p>
		<p>3. This helps to solve problems involving arithmetic and geometric progressions</p>
		<p>4. Able to choose the right mode of interest and EMI for debt repayment</p>
		<p>5. Develop the skill of using descriptive statistical tools.</p>
Common courses	BCM3A12 Professional Business Skills	<p>1. Facilitates easy business communication</p>
		<p>2. Improved knowledge of E-learning resources and its delivery broadens vision and insight of management.</p>
		<p>3. Knowledge of artificial intelligence and data analysis helps to diversify and grow business cutting across obstacles</p>
		<p>4. Knowledge of existing national and international cyber laws makes communication and business easier.</p>
		<p>5. Digital marketing and its application of social media channels and advertisements enhances changes and horizon of business.</p>
Core courses	BCM3B03-Business regulation	<p>1. Helps to establish and run business as directed by the government.</p>
		<p>2. Knowledge of Indian Contract Act 1872 helps to enter into valid contracts in life and business</p>

		<p>3. Learning of Sale of Goods Act helps to do business keeping all legal formalities</p>
		<p>4. Understanding of the privileges and rights of consumers helps to do legally standing business admitting the status of the customers; increases business and relationships in the long run</p>
		<p>5. Able to create LLP business with sound legal knowledge.</p>
Core courses	BCM3B04 Corporate Accounting	<p>1. Becomes competent to prepare accounts related with redemption of preference shares, bonus shares, right issue of shares and buy back of shares.</p>
		<p>2. Realizes the concept of preparation of final accounts of banking companies.</p>
		<p>3. Develop the skill of preparation of final accounts of life insurance companies.</p>
		<p>4. Able to prepare the final accounts of group companies</p>
		<p>5. Understand the concept of disclosure-based accounting standard and interim reporting</p>
Complementary courses	BCM3C03 Human Resources Management	<p>1. Knowledge of human resource management helps to run business effectively.</p>
		<p>2. Understand the necessary skills required for the employment in an organization.</p>
		<p>3. Familiarity with the induction and organizational training practices helps to have effective trained work force in the organisation</p>
		<p>4. Understand the concept of career planning and performance appraisal.</p>

		5. Insight on compensation and grievance management practices helps to take effective and appropriate decisions on time.
Semester IV		
Common courses	BCM4A13 Entrepreneurship Development	1. It motivates the learner to become an entrepreneur
		2. Knowledge of supports available helps to reap the benefits of easily
		3. It is intended to trigger the mind set of youth to establish and run MSMEs in life
		4. Knowledge of establishing industrial units helps to start with business units easily.
		5. The learner can draft and finalize project report without external helps and supports.
Common courses	BCM4A14 Banking and Insurance	1. Candidates get clear picture of the banking business India and he can plan accordingly.
		2. Knowledge of negotiable instruments, features & formalities helps to deal with care
		3. This helps the candidate to be up-to-date in banking formalities and fund transfer.
		4. Knowledge of insurance business helps to hedge, avoid, and reduce risk in business.
		5. Knowledge of LIC and IRDA helps to move with Insurance people with confidence.

Core courses	BCM4B05 Cost Accounting	1. The learner gets insights into the costing and cost accounting tools and techniques.
		2. The learner understands the scientific material cost control measures in use
		3. The scholar gets used to the scientific labour and overhead cost control measures
		4. Knowledge of various methods of costing helps the learner to practice in life
		5. Variance analysis helps to identify its causes and take corrective actions
Core courses	BCM4B06 Corporate Regulations	1. Knowledge of Indian Companies Act gives the legislative backgrounds of a company.
		2. The candidate knows the formalities for formation of a company which will help to form more corporates in life.
		3. The knowledge of raising funds will help the candidate to choose between debt and equity easily
		4. The candidate can easily manage a company as he knows the rights, duties and powers of all positions
		5. Knowledge of situations when a company may go for liquidation helps to run the business effectively

Complementary courses	BCM4C04 Quantitative Techniques for Business	1. Knowledge of QT broadens vision and outlook of the candidate to face business problems.
		2. Understanding of correlation and regression analysis helps to predict with greater degree of accuracy.
		3. Awareness of probability and other theories helps to have critical thinking and rational decisions.
		4. Familiarity with theoretical distributions helps to correlate issues with standard theories and take decisions
		5. Knowledge of LPP and modeling will be of great help in decision making
Semester V		
Core courses	BCM5B07 Accounting for Management	1. To make the learner aware of the methodologies of Management Accounting
		2. It is to make the candidate learn how to conceive and interpret financial statements
		3. Ratios are very helpful tools for analysis and interpretations
		4. Knowledge of movements in working capital helps to check/control flow of funds/cash.

		5. Knowledge of CVP analysis will be of great help for managerial decision making
Core courses	BCM5B08 Business Research Methods	<ol style="list-style-type: none"> 1. The learner knows the primary matters of business research 2. The student knows how to fix a research design, scaling checking validity etc. 3. The candidate knows the method of data collection and its processing and validation. 4. The learner knows to process collected data, test hypothesis and arrive at conclusions 5. The student knows well how to write an academic report and present it
Core courses	BCM5B09 Income Tax Law and Accounts	<ol style="list-style-type: none"> 1. To understand the method and methodology of taxation on income in India. 2. To learn the provisions related to computation of Taxable Salary Income 3. Knowledge of taxing income from house property helps the learner to compute taxable income under the head House Property correctly. 4. Knowledge of computing income under the head profits and gains of business or profession helps the learner to do it effectively in life. 5. Knowledge of computing income under the head Capital Gains and other sources makes the learner self-confident and competent to practice income tax.

Core courses	BCM5B10 Computer Applications in Business	1. Knowledge of networking and its application business helps students to learn in a networked community much easily.
		2. Knowledge of website creation and its updation and maintenance magnifies the identity and scope of business at much cheaper a cost
		3. This helps to grow business across boarders easily.
		4. Students become more competitive in this digital era for he knows these entire well.
		5. Knowledge of the threats present in the Net helps to take preventive measures early and thereby could be avoided on time
Core courses	BCM5B11 Business Information Systems	1. Knowledge of MIS helps to gather, process and take decisions easily.
		2. It helps to provide right information at the right time at the right quantity
		3. Knowledge of DBMS helps to process data scientifically keeping all manifestations.
		4. Understanding of ERP helps easy automation and results in reduced costs.
		5. Business Process Reengineering results in increased dignity in business and profits
	BCM5D01 Open Course	
Semester VI		
Core courses	BCM6B12 Income Tax and GST	1. Students will be able to Compute tax liability of individuals

		<ol style="list-style-type: none"> 2. To learn the provisions related to computation of Taxable Salary Income
		<ol style="list-style-type: none"> 3. Knowledge of taxing income from house property helps the learner to compute taxable income under the head House Property correctly.
		<ol style="list-style-type: none"> 4. Knowledge of computing income under the head profits and gains of business or profession helps the learner to do it effectively in life.
		<ol style="list-style-type: none"> 5. Knowledge of computing income under the head Capital Gains and other sources makes the learner self-confident and competent to practice income tax.
Core courses	BCM6B13 Auditing and Corporate Governance	<ol style="list-style-type: none"> 1. Knowledge of auditing helps gives newer insights and wide vision on the topic.
		<ol style="list-style-type: none"> 2. Learns to do verification, vouching and valuation independently
		<ol style="list-style-type: none"> 3. Knows to set internal control system effectively to check frauds, errors and omissions.
		<ol style="list-style-type: none"> 4. Solid understanding of the models and benefits of corporate governance
		<ol style="list-style-type: none"> 5. Evaluate different stakeholders' roles and significance in corporate governance
Core courses	BCM6B14 Office Automation Tools	<ol style="list-style-type: none"> 1. Students understand how to prepare documents using MS-Word

		2. Learner demonstrates excel spreadsheets and its applications.
		3. The candidate knows Power Point Presentations and its use in business meetings.
		4. Scholar acquires knowledge on distributed and client server computing.
		5. Understand the applications of internet in the field of business education and governance
Core courses	BCM6B15 Computerized Accounting with Tally	1. Helps to develop awareness on accounting concepts and principles
		2. Aids to perform documentation, accounting and inventory operations using Tally
		3. Assist preparation of financial statements, tax documents, budgets and presentations
		4. Develop adequate knowledge on accounting information system and their application.
		5. To excel in budgets, reporting and accounting using Tally
Core Project	BCM6B16 (PR) Three Weeks Project and Viva-Voce	1. Students get clear idea on idea generation, topic selection, factors to be considered before selection of a topic, drafting methodology, sampling, etc.
		2. Gets insight on collection, tabulation, processing, analysis and interpretation of data clearly.
		3. Students get clarity of expressions and judgments
		4. Students get acquitted with the forms, formalities and methodology of presenting an academic document
		5. It improves skill, enthusiasm and a spirit of inquisitiveness among younger generations to look further and further and elicit hidden facts before the academia

DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES

BACHELOR OF BUSINESS ADMINISTRATION(BBA) Programme Outcomes:

PO1	To provide the students with the basic understanding about management education.
PO2	To prepare student to exploit opportunities being newly created in the management profession.
PO3	To focus on the holistic development of the students with conceptual clarity, analytical ability, critical thinking and communication skills.
PO4	To develop appropriate skills in the students so as to make them competent and provide themselves self-employment.
PO5	To train the students to be competent entry level management professionals
PO6	To impart basic and operational knowledge on all functional areas of management
PO7	To inculcate entrepreneurial skills among the management graduates to turn to successful entrepreneurs.
PO8	To promotes ethical and value-based leadership ability.
PO9	To equip students to demonstrate the capabilities required to apply cross-functional business knowledge and technologies in solving real-world business problems
PO10	Knowledge of business fundamentals

PROGRAMME SPECIFIC OUTCOMES (BBA):

PSO1	Students will exhibit understanding of broad business concepts and principles.
PSO2	Students will be able to define, analyse and find solutions for different business problems.
PSO3	Students will be able to apply appropriate quantitative and qualitative techniques in solving business problems.
PSO4	Students are able to demonstrate competency in the underlying concepts, theory and tools taught in the core undergraduate curriculum.

PROGRAMME EDUCATIONAL OBJECTIVES

PEO1	Graduates will possess a solid foundation of knowledge and skills in various areas of business administration, including management, marketing, finance, human resources and operations.
PEO2	Graduates will demonstrate analytical and critical thinking skills to analyse complex business problems, evaluate alternative solutions and make informed decisions.
PEO3	Graduates will exhibit professional ethics, integrity and social responsibility in their business practices and interactions with stakeholders and the community.

Sushil Kumar



PRINCIPAL
Paramakkavu College of Arts and Science
Thiruvananthapuram-02

COURSE OUTCOMES (BBA):

Semester I		
Core/Common/ Complimentary	Course Code & Name of Course	Course Outcomes
	BBA1B01 MANAGEMENT THEORY AND PRACTICES	1. Describe the different schools of management thought.
		2. Apply the concepts of planning, organizing, staffing and controlling for effective management.
		3. Showcase ethical and socially responsible behaviour in Management
		4. Aware and pursue the modern management practices in business
		5. understand and analyse practical aspects of management to become skilled manager in a corporate business set up
Complimentary courses	BBA1C01 MANAGERIAL ECONOMICS	1. Acquire knowledge regarding relevant economic concepts applicable in managerial decisions.
		2. Design strategies, including costing, pricing, product differentiation and market environment according to the nature of products and the structures of the markets.
		3. Make optimal business decisions by integrating the concepts of economics
		4. Understand the business cycles and make forecasts on the basis of prevailing conditions.
		5. Apply the economic principles in managerial decisions.
Semester II		

Core courses	BBA2B02 FINANCIAL ACCOUNTING	1. Discuss and apply fundamental accounting concepts, principles and conventions.
		2. Record basic accounting transactions and prepare annual financial statements for a sole proprietorship business.
		3. Record accounting transactions in respect of hire purchase and instalment system and branches
		4. Understand the accounting process for the issue of shares and debentures in a company
		5. Examine and assess various strategies for maintaining branch accounts, demonstrating the capacity to select the most suitable method tailored to particular business circumstances.
Complementary courses	BBA2B03 MARKETING MANAGEMENT	1. Describe the concept of marketing and its importance in the modern world
		2. Determine the factors that influence consumer buying behaviour.
		3. Apply the tools and strategies that help in product positioning
		4. Develop effective pricing and marketing strategies.
		5. Identify the best distribution channel according to the nature of business.
Semester III		
Common courses	BBA3A11 – BASIC NUMERICAL METHODS	1. Solve numerical equations for the value of unknowns.

		2. Gain understanding of matrices and progressions.
		3. Compute simple and compound interest and also have understanding of financial mathematics.
		4. Understand the concept of descriptive statistics and their applications.
		5. Develop holistic solutions for intricate financial scenarios by integrating diverse mathematical concepts and applying them innovatively to solve complex problems effectively.
Common courses	BBA3A12- PROFESSIONAL BUSINESS SKILLS	1. Acquire the various soft skills required for professional.
		2. Describe the nuances of professional communication and business data analysis.
		3. Know the different dimensions of e- learning.
		4. Gain insights about cyber laws.
		5. . Understand the evolving concept of digital markets and digital marketing
Core courses	BBA3BO4 - CORPORATE ACCOUNTING	1. Acquaints the students with the knowledge about corporate accounting
		2. Introduce the fundamental Indian accounting standard and equip the students with skills for preparing corporate accounts

		<p>3. Understand and apply fundamental IndASs on inventories, PPE, provisions, income tax, borrowing cost and intangible assets</p>
		<p>4. Prepare annual financial statements for companies and compute accounting ratios.</p>
		<p>5. Record transactions in respect of redemption of preference shares and debentures.</p>
Core courses	BBA3B05 FINANCIAL MANAGEMENT	<p>1. Understand various basic concepts of finance.</p>
		<p>2. Develop skills for effective Financial, Investment and Dividend decision making</p>
		<p>3. Evaluate projects and select the most suitable project after analyzing various aspects</p>
		<p>4. Utilize different theories of dividend policy and capital budgeting techniques to strategically allocate funds, showcasing the capability to apply theoretical insights in practical decision-making contexts.</p>
		<p>5. Explore the factors influencing a company's working capital needs and employ suitable tools to optimize business operations, demonstrating critical evaluation skills and effective problem-solving abilities.</p>
Complementary courses	BBA3CO2 - BUSINESS REGULATIONS	<p>1. Analyse statutory provisions and the core concepts in business laws</p>
		<p>2. Analyse legal issues arising in day-to-day business operations prevalent in India.</p>
		<p>3. Identify unfair trade practices and gain insights about the consumer redressal mechanism in the country</p>
		<p>4. Discuss possible solutions to issues in organisations in the frame work of business laws</p>

		5. Understand the provisions of RTI Act
Semester IV		
Common courses	BBA4A13 - ENTREPRENEURSHIP DEVELOPMENT	1. Get deep understanding about the concept of entrepreneurship.
		2. Identify and develop the entrepreneurial talents in them.
		3. Generate innovative business ideas in the emerging industrial scenario.
		4. Look for appropriate guidance and assistance available for setting up of business.
		5. Create a detailed and organized project report for a business concept, highlighting creativity and innovation in outlining a feasible plan for entrepreneurial pursuits.
Common courses	BBA4A14 – BANKING AND INSURANCE	1. Acquire knowledge about basics of Banking and Insurance.
		2. Understand modern trends in banking.
		3. Know the various payment modes including digital and electronic mechanisms.
		4. Prepare life insurance proposal and know the procedure for claiming insurance amount.
		5. Demonstrate understanding of the Reserve Bank of India (RBI), encompassing its roles, functions, and initiatives within the structure of the Indian financial system.

Core courses	BBA4B06 COST AND MANAGEMENT ACCOUNTING	1. Recognize and apply appropriate theories, principles and concepts relevant to cost accounting.
		2. Exercise appropriate judgment in selecting and presenting information using various methods relevant to cost accounting.
		3. Acquire knowledge in the spheres of budgets and prepare budgets including cash budget
		4. Perform CVP analysis and break-even analysis.
		5. Develop innovative and efficient cost management strategies by integrating knowledge gained in the course, showcasing proficiency in creating structured budgets and financial models to align with organizational objectives.
Core courses	BBA4C03 CORPORATE REGULATIONS	1. Define the basic concepts of companies Act 2013
		2. Describe the procedure of the formation of a company
		3. List the documents related to formation of a company
		4. . Explain the provisions of share capital and its issue
		5. Describe the provisions for appointment, removal, disqualifications and other aspects of a director in a company

Complementary courses	BBA4C04 - QUANTITATIVE TECHNIQUES FOR BUSINESS	1. Acquire knowledge about the meaning and utility of Quantitative Techniques.
		2. Measure changes in the variables like price, volume of sales using Index numbers and Time series Analysis
		3. Employ the principles of linear regression and correlation, including least square method, predicting a particular value of Y for a given value of X and significance of the correlation coefficient.
		4. Use different distributions to solve simple practical problems
		5. Create solutions to intricate problems by integrating and applying diverse probability distributions to tackle practical challenges across various fields.
Semester V		
Core courses	BBA5B07 HUMAN RESOURCES MANAGEMENT	1. Develop insights on various concepts and functions of Human Resource Management.
		2. To Design and formulate various HRM processes such as Recruitment, Selection, Training, Development, Performance appraisals and Compensation Plans
		3. Equip themselves with the understanding of importance of HR Planning and related aspects
		4. Evaluate and apply various methods of performance appraisal, distinguishing between traditional and modern approaches, to enhance employee development and organizational effectiveness

		5. Learn the latest trends in Human Resource Management.
Core courses	BBA5 B08 BUSINESS RESEARCH METHODS	<ol style="list-style-type: none"> 1. Develop understanding of the basic framework of business research process 2. Develop skills for conducting business research. 3. Get knowledge of variables, sources of data, data collection tools, tools for analysis etc. 4. Apply appropriate analysis tool depending upon the nature and type of data and interpret the results. 5. Prepare research reports.
Core courses	BBA5B09 OPERATIONS MANAGEMENT	<ol style="list-style-type: none"> 1. Describe the different concepts of Operations Management.
		2. Acquire the knowledge to make plans at the operational level of an industry
		3. Describe the concepts of facilities planning, capacities planning and aggregate planning.
		4. Describe the various tools for quality control in an organisation..
		5. Innovatively devise and propose a robust quality control framework for an organization, integrating a range of tools and methodologies to ensure and improve product or service quality.

Core courses	BBA5B10 (Elective 1) - HUMAN RESOURCES PLANNING AND DEVELOPMENT	1. Describe the process of HR planning
		2. Develop an awareness on various concepts relating to HR planning and development
		3. Describe the career development process
		4. Describe the methods for HR development
		5. Understanding the integration of HR planning and development with organizational strategy to achieve competitive advantage.
Core courses	BBA5 B11(Elective 2) INDUSTRIAL RELATIONS	1. Understanding among students of various labour management relation issues and policies in the Indian context in particular
		2. Elaborate the concept of Industrial Relations.
		3. Illustrate the role of trade union in the industrial setup.
		4. Outline the important causes & impact of industrial disputes.
		5. Summarize the important provisions of Industrial Disputes Act, 1947, Factories Act, 1948, Shops and Establishments Act, 1953, ESI Act, 1948, Workmen Compensation Act, 1923, Payment of Gratuity Act, 1972, Payment of Wages Act, 1936, Minimum Wages Act, 1948 and Payment of Bonus Act, 1965.
	BCM5D01 Open Course	
Semester VI		
Core courses	BBA6B12 ORGANISATIONAL BEHAVIOR	1. Analyze individual and group behaviour, and understand the implications of organizational behaviour on the process of management.

		<p>2. Identify different motivational theories and evaluate motivational strategies used in organizational settings</p>
		<p>3. Evaluate the appropriateness of various leadership styles and conflict management strategies used in organizations.</p>
		<p>4. Describe organisational change, development and stress.</p>
		<p>5. familiarize the students with the basic concepts of individual behaviour and organizational behaviour</p>
Core courses	BBA6B13 MANAGEMENT SCIENCE	<p>1. Learn different OR techniques useful in managerial decisions. 2.</p>
		<p>2. Solve Linear Programming Problems</p>
		<p>3. Solve Transportation and Assignment Problems</p>
		<p>4. Identify critical path on the basis of Network Analysis</p>
		<p>5. Describe various decision-making theories.</p>
Core courses	BBA6B 14 PROJECT MANAGEMENT	<p>1. Describe the different concepts of managing a project.</p>

		2. Analyse the viability of a project
		3. Utilize understanding of project financing techniques to assess and propose suitable financial approaches for a specific project situation.
		4. Select the most suitable project.
		5. Prepare project reports.
Core courses	BBA6B15 (Elective 3) PERFORMANCE MANAGEMENT	1. a detailed understanding of organizational and managerial performance,
		2. gain practical knowledge in setting up team management, target setting and achievement.
		3. Describe the concepts and techniques of performance management.
		4. Describe the types of performance appraisal methods and processes used in organisations
		5. Identify the bottlenecks in the implementation of performance management.
Core courses	BBA6B16 (Elective 4) - MANAGEMENT TRAINING AND DEVELOPMENT	1. Describe the concepts, tools and techniques of management training and development.
		2. Explain the different types of management training.
		3. To design and use methods for management development.
		4. Illustrate the different models of management development
		5. Recognize the strategic importance of training and development in enhancing organizational performance and competitiveness.

Core Project	BBA6B17 (PR) Three Weeks Project and Viva-Voce	1. Students get clear idea on idea generation, topic selection, factors to be considered before selection of a topic, drafting methodology, sampling, etc.
		2. Gets insight on collection, tabulation, processing, analysis and interpretation of data clearly.
		3. Students get clarity of expressions and judgments
		4. Students get acquainted with the forms, formalities and methodology of presenting an academic document
		5. It improves skill, enthusiasm and a spirit of inquisitiveness among younger generations to look further and further and elicit hidden facts before the academia

Suresh Kumar



PRINCIPAL
Paramakkavu College of Arts and Science
Thirissur-02

DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES
PG COURSE: MASTER OF COMMERCE(M.COM)

Programme Outcomes:

PO1	Advanced Knowledge: Ability to acquire and apply knowledge as evidenced by research activities to find solutions for complex problems by employing right tools
PO 2	Effective Communication: Ability to present technical and scientific information and arguments clearly in written and oral presentation.
PO3	Scientific and Critical Thinking Approach: Capacity to acquire constantly asking questions, examining information and evidence and figuring out conclusions gives scientific evidence.
PO4	Lifelong Learning and information management: Ability to seek new knowledge, skills and manage relevant information from various sources
PO5	Leadership Skills: Ability to demonstrate leadership, TO to take actions and to get others to be involved.
PO6	Research-related skills: Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.
PO7	Environment and Sustainability: Significance of conserving a clean environment and sustainable development.
PO8	Self-Motivated Learning: Ability to identify needs and mobilise resources independently, monitor and evaluate programmes. Ability to guide and lead clientele in the community/work setting in the right direction.
PO9	Professionalism, Attitude, Ethics and Integrity: Ability to act with integrity and good ethics in their profession and their obligation to society.
PO10	Employability: Achieve the transferable skills needed to make one 'employable'.

PROGRAMME SPECIFIC OUTCOME: M.COM

PSO1	Graduates will demonstrate proficiency in advanced financial management techniques, including financial analysis, strategic financial planning, and risk management, preparing them for roles in corporate finance and investment analysis.
PSO2	Graduates will develop strong research capabilities, including the ability to design research studies, collect and analyze data using statistical methods and software tools, and present findings effectively. This prepares them for roles in academia, research institutions, or as business analysts
PSO3	Graduates will demonstrate advanced knowledge and skills in developing, implementing, and evaluating marketing strategies and plans. They will be capable of analyzing market trends, identifying target markets, and formulating effective marketing strategies to achieve organizational goals.
PSO4	Students will acquire in-depth knowledge and practical skills in digital marketing strategies and tools. This includes understanding SEO, SEM, social media marketing, content marketing, and email marketing. Graduates will be able to leverage digital platforms effectively to enhance brand awareness, engage with customers, and drive sales.

PROGRAMME EDUCATIONAL OBJECTIVES:

PEO1	The program aims to impart advanced knowledge in areas such as accounting, finance, taxation, business management, and related fields. This includes understanding theoretical foundations as well as practical applications relevant to contemporary business practices.
PEO2	The program focuses on developing analytical, critical thinking, and problem-solving skills among students. Graduates are expected to be proficient in financial analysis, decision-making, and strategic planning, equipped to address complex business challenges
PEO3	The program aims to enhance students' professional competence through exposure to industry-relevant practices, ethical standards, and emerging trends in commerce and finance. Graduates are prepared to meet the demands of the global business environment and contribute effectively to organizational success.

Shree Manu



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Thiruvananthapuram-02

COURSE OUTCOMES: M.COM

Semester I		
Core/Common/ Complimentary	Course Code & Name of Course	Course Outcomes
Core Course	MCM1C01: BUSINESS ENVIRONMENT AND POLICY	1. Analyse the environment of a business from the various internal and external perspectives
		2. Evaluate how the economic environment and its configurations influence in business decision making
		3. Apply the role of New Economic Policy and the Economic reforms in the perspective of Business
		4. To make understand the various policies related to FDI & Multi-National Corporations
		5. To give an in-depth knowledge about the recent Government policies regarding Environment management.
Core Course	MCM1C02 CORPORATE GOVERNANCE AND BUSINESS ETHICS	1. To make an understanding about the concept of Corporate Governance and the communication mechanism
		2. To Apply the various Theories and Models of Corporate Governance and the recent initiatives in India and abroad
		3. To make an understanding about the various committees on Corporate Governance and the Legal framework
		4. Evaluate the role of various stakeholders, whistle blowing and the recent developments in India.
		5. To create Important ethical principles in Business in the cultural diversity

Core courses	MCM1C03: QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS	1. To remember and understand properties of probability distribution and to solve the problems
		2. To apply hypothesis testing for validation and interpretation of the results
		3. To evaluate the application of non-parametric tests for validation
		4. To understand the tool for finding the relationship between variables and its magnitude
		5. To create soft skill knowledge for data analysis
Core Course	MCM1C04: MANAGEMENT THEORY AND ORGANISATIONAL BEHAVIOR	1. To impart a thorough understanding about various concepts and theories in management and organisational behaviour.
		2. Understand the various psychological process and different motivation theories which will influence the performance.
		3. To Evaluate the personality traits of human beings and various ethical issues in Organisational Behaviour
		4. . To understand importance of group dynamics, need for work life balance and managing change
		5. . To apply the the various terms related to organisational culture and Techniques for managing organisational relationships
Core Course	MCM1C05: ADVANCED MANAGEMENT ACCOUNTING	1. To remember and understand the knowledge to use different methods of measuring financial and non-financial performance.

		<ol style="list-style-type: none"> 2. To measure and solve financial and non-financial performance-based business problems.
		<ol style="list-style-type: none"> 3. To understand and apply comprehensive performance management initiatives for organizations
		<ol style="list-style-type: none"> 4. Understand and apply the significance of risk and uncertainty in decision making.
		<ol style="list-style-type: none"> 5. To apply various techniques of interpreting Variances.
Semester II		
Core Course	MCM2C06: ADVANCED CORPORATE ACCOUNTING	<ol style="list-style-type: none"> 1. To understand the theory and practice of Corporate Financial Accounting
		<ol style="list-style-type: none"> 2. To create problem solving capacity in corporate restructuring and liquidation
		<ol style="list-style-type: none"> 3. To understand skill in recognition, measurement and presentation of deferred tax
		<ol style="list-style-type: none"> 4. To understand insight into accounting standards of IFRS, Ind AS, and Lease accounting
		<ol style="list-style-type: none"> 5. To evaluate different types of accounting
Core courses	MCM2C07: ADVANCED STRATEGIC MANAGEMENT	<ol style="list-style-type: none"> 1. To understand the Strategic Management Process and to provide basic idea about the Social and ethical issues
		<ol style="list-style-type: none"> 2. To understand and evaluate the Environment analysis and SWOC
		<ol style="list-style-type: none"> 3. Evaluate the strategic options at Corporate level and the different growth strategies
		<ol style="list-style-type: none"> 4. To understand the Strategy implementation and different approaches in planning and allocating resources

		5. To apply and evaluate the Strategy evaluation, tools and techniques used and processes with case studies
Core courses	MCM 2C08 STRATEGIC COST ACCOUNTING	1. To understand the conceptual knowledge of Cost Accounting, comparison of cost accounting with other branches of accounting.
		2. Provide students with a basic understanding of the different terminologies used in Cost Accounting and different types of cost
		3. Understand the treatment regarding the application of process costing and treatment of Joint products and By products
		4. To understand and evaluate the practical application of Absorption Costing, Throughput Accounting, ABC Analysis and Transfer Pricing
		5. . To evaluate the application of Productivity Management
Core Course	MCM2C09: INTERNATIONAL BUSINESS	1. To study about the Theories of International Trade and reasons for internationalisation
		2. Evaluate the International Business Environment opportunities and threats of Indian Companies
		3. To understand the Strategy development in IB and the different business entry strategies.
		4. To evaluate the role International economic situations in the development of Business

		5. To analyse the different strategies of internationalization and the contribution to Indian Course outcome economy
Core Course	MCM2C10: MANAGEMENT SCIENCE	1. To understand students with concepts of management science
		2. To evaluate the application of various tools which support decision making process
		3. To apply inventory management and managing the queue system in service sector.
		4. To evaluate and create the technique of project planning scheduling and controlling
		5. To understand knowledge in share analysis and different strategies in game theory
Semester III		
Core Course	MCM3C11 FINANCIAL MANAGEMENT	1. To understand the role of finance and finance manager in an organisation
		2. To Evaluate and apply sources of financing and corresponding cost of capital
		3. To Understand and evaluate working capital decisions
		4. To understand and apply Capital structure and leverage analysis
		5. To understand and apply dividend theory and dividend decisions

Core courses	MCM3C12: INCOME TAX: LAW, PRACTICE AND TAX PLANNING I	1. To understand tax planning tips to individuals on the basis of residential status.
		2. To understand and evaluate the computation of income under five heads and to apply tax planning tips for these five heads of income.
		3. To understand and apply tax planning tips for Hindu Undivid family, set off and carry forward provisions and tax planning tips for individuals
		4. To remember and understand the powers of income tax authorities and should be able to calculate advanced tax liability and TDS of an individual.
		5. To create ability to file the return of income of individuals and should be aware of different types of assessment
Core courses	MCM3C13: RESEARCH METHODOLOGY	6. To understand and apply different research approaches and methodologies
		7. To evaluate and apply Population survey and sample survey – theories and techniques –
		8. To understand and apply the Data collection methods and enable them to conduct comprehensive research.
		9. To Evaluate the Measurement and scaling and the validation and reliability testing
		10. To understand and evaluate Data processing, analysing, interpretation and report writing a create awareness about plagiarism

Elective Course	MCM3EM01: ADVERTISING AND SALES MANAGEMENT	1. To enable the students to understand about Advertising management and the importance of creativity ••••
		2. To introduce the different Medias and the changes in the globalised business environment.
		3. To familiarise about the concept Personal selling and its significance in the marketing process
		4. To provide an insight about Sales force management and Evaluation
		5. To enable the them to have an idea about Advertising research and methods regarding the impact assessment.
Elective Course	MCM3EM02: CONSUMER BEHAVIOUR	1. Discuss about the concept Consumer Behaviour and its role in modern Marketing.
		2. To introduce the concept of a Consumer and the different factors influencing them in their behaviour
		3. To understand about the Consumer Decision making process and its impact in Marketing.
		4. To study about the Purchase decision process at a globalised perspective in relation to the emerging issues

		5. To enable the students to conduct a Consumer research survey and the important tools in this regard.
Semester IV		
Core Course	MCM4C14: FINANCIAL DERIVATIVES AND RISK MANAGEMENT	1. To understand and apply the terms and concepts of underlying risk management
		2. To understand and evaluate growth and development of future.
		3. To understand and apply the option trading and various strategies involved in it
		4. To understand about the pricing of options- call and put option
		5. To evaluate and apply SWAP contract and pricing of different instruments under SWAP.
Core Course	MCM4C15: INCOME TAX: LAW, PRACTICE AND TAX PLANNING II	1. To understand and apply tax planning tips for partnership firm, AOP and BOI in India.
		2. To understand and apply tax liabilities of cooperative society and trust and should also be able to advocate tax planning tips to them.
		3. To understand and evaluate the tax liability of Companies including shipping companies.

		<p>4. To understand and evaluate the implications of tax on various managerial decisions •</p>
		<p>5. To understand and evaluate the tax liability of business units.</p>
Elective Course	MCM4EM03: SUPPLY CHAIN AND LOGISTICS MANGAEMENT	<p>1. To conceptualise about the Supply chain management and its importance in the globalized economy</p>
		<p>2. To study about the Role of manager in supply chain and the systems of supply chain</p>
		<p>3. To evaluate the different models and its impact in the Global logistics in connection with the legal aspects.</p>
		<p>4. Discuss about eh Logistics management and the growth due to automation</p>
		<p>5. To familiarise about the Types of inventory control and the recent trends in this area</p>
Elective Course	MCM4 EM04: SERVICE MARKETING	<p>1. To define the role of Service Marketing in the changing business environment. ••••</p>
		<p>2. To familiarise about the Service marketing mix and related strategies.</p>
		<p>3. To study about the different approaches related to Service marketing.</p>

		4. Discuss about the Application of service marketing in different sectors
		5. To evaluate the concept of Service models and the different dimensions of service quality
Dissertation & Viva	MCM4PV0 1 Project Work & Comprehensive Viva Voce	1. Students get clear idea on idea generation, topic selection, factors to be considered before selection of a topic, drafting methodology, sampling, etc.
		2. Gets insight on collection, tabulation, processing, analysis and interpretation of data clearly.
		3. Students get clarity of expressions and judgments
		4. Students get acquainted with the forms, formalities and methodology of presenting an academic document
		5. It improves skill, enthusiasm and a spirit of inquisitiveness among younger generations to look further and further and elicit hidden facts before the academia

Suresh Kumar

PRINCIPAL
Paramakkavu College of Arts and Science
Thrissur-02



DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

Programme outcome

PO1	Critical Thinking: Capability to apply analytic thought to a body of knowledge; by following scientific approach to knowledge development
PO2	Effective Communication: Ability to exchange ideas, thoughts, opinions, knowledge and data so that the message is received and understood with clarity and purpose
PO3	Problem Solving: Capacity to acquire competency to solve different kinds of problems in real life situations.
PO4	Lifelong Learning: Ability to acquire knowledge and skills that are necessary for participating in learning activities throughout life.
PO5	Leadership Qualities: Capability of mapping out the tasks of a team and to help and motivate team members to achieve the formulated vision.
PO6	Research-related skills: Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.
PO7	Environment and Sustainability: Significance of conserving a clean environment and sustainable development.
PO8	Effective Citizenship and Social Interaction: Ability to act with social issues and participate in civic life through volunteering.
PO9	Moral and Ethical Awareness: Ability to recognize different value system, understand the moral dimensions of your decisions and practice social, environmental and biological ethics.
PO10	Information/Digital Literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data

Programme specification

BCA

PSO1	Understand the basic principles of program development by identifying and formulating problems and integrate resources to decisions using the problem solving approach
PSO2	Understand data based reasoning through translation of data into abstract concepts using computing technology based tools and develop real life applications
PSO3	Understand and recognize different value system and the moral dimensions of software development and applications and their outcomes and accept the responsibility for them
PSO4	Design web applications by understanding the global perspective and make meaning of the world by connecting people's ideas, media and technology.

BSC. Computer Science

PSO1	An ability to understand the principles and working of computer systems.
PSO2	An ability to understand the structure and development methodologies of software systems.
PSO3	Familiarity and practical competence with a broad range of programming language and open source platforms.
PSO4	An ability to apply mathematical methodologies to solve

	<p style="text-align: center;">computation task, model real world problem using appropriate data structure and suitable algorithm.</p>
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PROGRAM EDUCATIONAL OUTCOMES

PEO1	<p style="text-align: center;">To empower the students to cope up with emerging technologies that will help them to build a profession</p>
PEO2	<p style="text-align: center;">To upskill the students in such a way that to analyze a problem in an effective way and find the best possible solution that meets the needs of global companies</p>
PEO3	<p style="text-align: center;">To promote the students to organize programs by making use of computer application skills to reach out to the unprivileged in the society</p>

BCA

Course outcome

Semester I		
Core/common/complement	Code and subject name	Course outcome
Core	BCA1B01 – Computer Fundamentals and HTML	1. students will get idea about essential concepts of computer hardware and software
		2. To understand number systems, digital codes, and Boolean algebra, which are essential foundations for computer science and digital electronics.
		3. Get knowledge about problem-solving program techniques, algorithmic understanding, and the ability to express solutions using flowcharts and sample algorithms.
		4. To get idea about foundational knowledge needed to create simple web pages using HTML and understand the essential components of web design
		5. To know about web design principles, enabling them to create visually appealing web pages and enhance user experience using CSS.
	BCA1C02-DISC RETE MATHEMATICS	1.To learn mathematical logic and Boolean algebra
		2. Understand the concept of set theory and mathematical logic
		3. Analyze logical propositions via truth table
		4.Understand mathematical foundation for computer science
		3. Analyze given problem and develop an algorithm to solve the problem

	BCA1C01 – Mathematical Foundation for Computer Applications	1. To learn the basic principles of linear algebra and vectors
		2. To learn the basic principles of differential and integral calculus
		3. To learn mathematical modelling using ordinary and partial equations 4. To understand analyze and create mathematical arguments
		5. To understand basic concept of number theory
Semester II		
CORE	BCA2B02 Problem Solving using C	1.Ability to handle possible errors during program execution.
		2.Develops the ability to analyze a problem, develop an algorithm to solve it.
		3. Develops the use of the C programming language to implement various algorithms, anddevelops the basic concepts and terminology of programming in general.
		4.Design and plan the logic of a Program.
		5.Select an environment to develop C.
CORE	BCA2C04 - Operations Research	1. To get a general introduction in solving linear programming problems
		2.To get a general understanding of network analysis techniques
		3. To get a general understanding of different mathematical models
		4. To understand the methodology of OR problem solving and formulate linear programming problem

		5. To develop formulation skills in field of game theory and assignment problems
CORE LAB	BCA2B03 Programming Laboratory I: HTML and Programming in C	1. Analyzing a web page involves inspecting its building blocks, like HTML tags (elements) and their descriptive details (attributes).
		2. Building web pages is a breeze with HTML5 providing structure and CSS bringing stunning visuals to life.
		3. the HTML5 structure, CSS styling, and hyperlinks to build your first webpage
		4. Strong problem-solving translates directly to C programming, where you break down tasks and use logic to create solutions.
		5. the power of C by crafting a variety of programs, from basic calculations to complex data structures.
SEMESTER III		
COMMON	A11 Python Programming	1. Understand various statements, data types and functions in Python
		2. Develop programs in Python programming language
		3. Understand the basics of Object-oriented programming using Python
		4. To know about backend processing
Core	BCA3B04 Data Structures using C	1. Learn about Data Structures and its types and applications

		2. Ability to analyze arrays and linked list and how to use in c programming
		3. Learn about stack and queue, develops the use of stack and queue in c programming
		4. Analyze the concept of binary trees and how to represent trees using stack and queue
		5. Ability to analyze traversal using graph concept and sorting methods
CORE	BCA3C05 Computer Oriented Numerical and S	1. To learn the floating-point arithmetic
		2. Learning to solve linear equations
		3. To learn numerical differentiation and integration
		4. To learn the basics of statistics and probability theory
		5. The design and analysis of techniques to give approximate but accurate solution to hard problems
CORE	BCA3C06 Theory of Computation	1. Will apply knowledge of computing and mathematics appropriate to the discipline
		2. Learn about Automata theory and its application in Language Design
		3. Solve computational problems regarding their computability and complexity and prove the basic results of the theory of automata
		4. Discuss key notions of context free languages

		5. Learn about Turing Machines and Pushdown Automata and understand Linear Bound Automata and its applications
SEMESTER IV		
COMMON	A13 Microprocessors Architecture and Programming	1. To understand about digital logic fundamentals, including logic gates, Boolean algebra, combinational circuits, and arithmetic operations, enabling students to design.
		2. To knowledge to analyze and design sequential circuits using various flip-flops, registers, and counters for applications requiring memory and state manipulation
		3. To know about fundamental of a computer, instructions sets, registers, and control mechanisms, enabling you to understand how programs are executed and interact with memory, and interrupts.
		4. The control unit's design using microprogramming, explain organization with various register structures, instruction formats, and addressing modes, and get know about how instructions are fetched, decoded, and executed.
		5. To about the advanced memory management techniques, explore various I/O interfaces and data transfer protocols, and to

		understand how data efficiently flows between the processor, memory, and peripheral devices
COMMON	A14 Sensors and Transducers	1. Explain resistance, inductance and capacitance transducers.
		2. Perceive the concepts of temperature transducers.
		3. Perceive the concepts of level transducers and pressure transducers
		4. Explain flow transducers, electromagnetic transducers, radiation sensors and sound transducers
CORE	BCA4B05 Database Management System and RDBMS	1. Explain the features of database management systems and Relational database
		2. Design conceptual models of a database using ER modelling for real life applications and also construct queries in Relational Algebra
		3. Create and populate a RDBMS for a real life application, with constraints and keys, using SQL
		4. Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database
		5. Design a commercial relational database system (Postgres) by writing SQL using the system

CORE	BCA4C07	1. Ability to understand the evolution of ECommerce
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	E-Commerce	<p>2. Develops the ability to understand Ecommerce in India</p> <p>3. Understand the types of ethical issues and how to be secure in online transaction</p> <p>4. Understand e-payment system</p> <p>5. Understand the online marketing techniques</p>
CORE	BCA4C08 Computer Graphics	<p>1. Learning basics of video display devices</p> <p>2. learning how to generate Line, circle and polygon using algorithms</p> <p>3. Learning two dimensional transformations</p> <p>4. Learning line clipping, polygon clipping using algorithms</p> <p>5. Learning different color models</p>
CORE LAB	BCA4B06- Programming Laboratory II: Lab Exam of 3rd and 4th Semester - Data Structures and RDBMS	<p>1. DDL sculpts the database framework, while DML manages the data within it.</p> <p>2. Nested and join queries both wrangle data from multiple tables, but joins do it directly, while nested queries embed one query inside another</p> <p>3. Craft a secure data layer with a view (virtual table), sequence (auto-ID), and synonym (alias) for user-friendly access.</p> <p>4. Front-end tools empower developers to build user interfaces and interactive web experiences</p> <p>5. Data structures equip programmers with tools for efficiently organizing, searching, sorting, and manipulating data</p>
SEMESTER V		
CORE	BCA5B07 Computer Organization and Architecture	<p>1. To understand digital logic fundamentals, including logic gates, Boolean algebra, combinational circuits, and arithmetic operations, enabling students to design.</p> <p>2. To knowledge to analyze and design sequential circuits using various flip-flops, registers, and counters for applications requiring memory and state manipulation.</p> <p>3. To know about fundamental of a computer, instructions sets, registers, and control mechanisms, enabling you to understand how programs are executed and interact with memory, and interrupts</p> <p>4. The control unit's design using microprogramming, explain organization with various register structures, instruction formats, and addressing modes, and get know about how instructions are fetched, decoded, and executed</p>

		5. To about the advanced memory management techniques, explore various I/O interfaces and data transfer protocols, and to understand how data efficiently flows between the processor, memory, and peripheral devices
CORE	BCA5B08 Java Programming	1. Define what are the main concepts covered by Java.
		2. Demonstrate these OOP concepts with example
		3. Apply these concepts into a programming methodology
		4. Compare Java with previously studied languages
		5. Select an environment to develop java.
CORE	BCA5B09 Web Programming Using PHP	1. Understand how to develop Web documents and its basic ideas
		2. Scripting and exploring the JavaScript language, design and develop JavaScript programs
		3. Learn about web servers and their roles. PHP syntax and comments.
		4. Understand how to passing information between pages using URL
		5. Learn about how to establish database connection using PostgreSQL
CORE	BCA5B10 Principles of Software Engineering	1. To get knowledge of traditional methodologies for software projects development.
		2. The requirements engineering develop the skills to identify, analyze, and document user needs and translate them into functional and non-functional requirements for software development.
		3. students to visualize, design, and document software systems using a standardized object-oriented approach.
		4. students get the skills to write efficient, readable, and maintainable code using structured programming techniques.
		5. students get the knowledge and skills to test software for quality and maintain software throughout its lifecycle
Semester VI		
CORE	BCA6B11 Android Programming	1. Find student ability to develop software with reasonable complexity on mobile platform
		2. Explain the fundamentals of Android operating systems
		3. Investigate how to debug and deploy software to mobile devices.

		4. Design and develop user Interfaces for the Android platform
		5. Select an environment to develop Android
CORE	BCA6B12 Operating Systems	1. Explain the important computer system resources and the role of operating system in their-management policies
		2. Evaluate the requirement for process synchronization and coordination handled by operating system.
		3. Experiment with the high-level structure of the Linux kernel both in concept and source code.
		4. Analyze the memory management and its-allocation policies.
		5. Master encryption methods, data integrity checks, and digital signatures to safeguard your network communications.
CORE	BCA6B13 Computer Networks	1. Knowing computer networks lets you design, fix, and keep them running smoothly.
		2 Master error handling, access techniques, and LANs to build dependable data highways.
		3. Master network navigation with routing, addressing, and key devices.
		4. Understand reliable data transfer (TCP, UDP, SCTP), traffic management, and core applications for effective network communication.
		5. Master the tools to secure communication by understanding cryptography and network security for data confidentiality, integrity, and authenticity.
ELECTIVE	BCA6B16C Software Testing and Quality Assurance	1. Students will get an idea about how to recognise the Phases of Software project
		2. To get knowledge about classify and understand Black-Box Testing and its types
		3. Get an idea about what is System and Acceptance Testing
		4. To know about Performance Testing &Regression Testing
		5. Students will get overall idea about Test Planning, Management, Execution and Reporting:
Core Lab	BCA6B15 -Programming	1. Android development by building apps that solidify your grasp of layouts, UI, data, and APIs.

Laboratory IV: Lab Exam of Android and Linux Shell Programming	
	2. Automate tasks and extend system functionality by wielding the power of shell scripting.
	3. software development by collaborating on code reviews and teamwork practices.
	4. evaluates your skill in writing and using Linux shell scripts to automate, manage systems, and simplify tasks.
	5. Maintain clear documentation for Android code and Linux scripts, generating detailed reports for future reference.

Sumalekha



PRINCIPAL
Paramakkavu College of Arts and Science
Thiruvananthapuram-02

DEPARTMENT OF ELECTRONICS

PROGRAMME OUTCOMES

PO1	Critical Thinking: Capability to apply analytic thought to a body of knowledge; by following scientific approach to knowledge development.
PO 2	Effective Communication: Ability to exchange ideas, thoughts, opinions, knowledge and data so that the message is received and understood with clarity and purpose.
PO3	Problem Solving: Capacity to acquire competency to solve different kinds of problems in real life situations.
PO4	Life Long Learning: Ability to acquire knowledge and skills that are necessary for participating in learning activities throughout life.
PO5	Leadership Qualities: Capability of mapping out the tasks of a team and to help and motivate team members to achieve the formulated vision.
PO6	Research-related skills: Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.
PO7	Environment and Sustainability: Significance of conserving a clean environment and sustainable development.
PO8	Effective Citizenship and Social Interaction: Ability to act with social issues and participate in civic life through volunteering.
PO9	Moral and Ethical Awareness: Ability to recognize different value system, understand the moral dimensions of your decisions and practice social, environmental and biological ethics.
PO10	Information/Digital Literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data

BSC ELECTRONICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the basic principles of program development by identifying and formulating problems and integrate resources to decisions using the problem solving approach
PSO2	Understand data based reasoning through translation of data into abstract concepts using computing technology based tools and develop real life applications
PSO3	Understand and recognize different value system and the moral dimensions of software development and applications and their outcomes and accept the responsibility for them
PSO4	Design web applications by understanding the global perspective .and make meaning of the world by connecting people ideas, media and technology.

PROGRAMME EDUCATIONAL OUTCOMES

PEO1	Technical knowledge and skills in electronics.
PEO2	Problem-solving abilities using engineering principles.
PEO3	Design and implementation of electronic systems.
PEO4	Commitment to lifelong learning and career development

SEMESTER I

Core/Common/ Complimentary	Course Code & Name of Course	Course outcomes
Core	ELE1B01 - Basic Electronics and Network Theorems	Understand basic electronic concepts and components, including voltage, current, resistance, and passive components.
		Apply fundamental circuit theorems and laws (KVL, KCL, Thevenin, Norton) for analyzing electrical circuits.
		Understand the properties and behavior of semiconductors, including PN junction diodes and special diodes.
		Comprehend the operation and characteristics of BJTs, FETs, UJTs, and SCRs.
Complimentary	ELE1C01 - Electronic Devices	Identify and classify electronic components, including resistors, capacitors, and inductors.
		Explain the operation of light-sensitive devices like LDRs, LEDs, and LCDs.
		Understand semiconductor fundamentals and diode operations, including PN junction and zener diodes
		Explain the operation of light-sensitive devices like LDRs, LEDs, and LCDs.
		Analyze BJT configurations, characteristics, and use transistors as switches.

SEMESTER II

Core/Common/ Complimentary	Course Code & Name of course	Course outcomes
Core	ELE2B02- Electronic Circuits	To equip the students with basic components in electronics, identifying and testing them
		To learn fundamentals of electronics
		To learn the circuit assembling
		To study circuit troubleshooting
Complementary	ELE2C02 – Electronics Circuit	Design rectifier circuits and voltage regulators, ensuring efficient power conversion and stable output.
		Analyze and design BJT biasing circuits and amplifiers, optimizing for desired performance metrics like gain and stability.
		Evaluate feedback amplifier configurations and design power amplifiers, considering efficiency and distortion characteristics.
		Design and troubleshoot oscillator circuits and utilize timer ICs for precise timing applications, ensuring reliable operation and functionality.

SEMESTER III

Core/Common/ Complimentary	Course Code & Name of Course	Course outcomes
Core	ELE3B05 – Digital Electronics	Master number systems, digital codes, Boolean algebra, and logic gates
		Analyze TTL, CMOS, ECL logic families; design combinational circuits.
		Implement multiplexers, flip-flops, shift registers, and popular IC applications.
		Design counters, understand IC applications, and ADC/DAC principles.
Complimentary	ELE3C04 – Digital Electronics	Gain proficiency in converting between number systems and codes, performing arithmetic operations, and analysing logic gates using Boolean algebra
		Design and implement combinational logic circuits using SOP, POS, and Karnaugh map minimization techniques. Implement multiplexers, demultiplexers, adders, subtractors, encoders, and decoders.
		Design and construct sequential logic circuits including various flip-flops (S-R, J-K, T, D), registers, counters (synchronous and asynchronous), and shift registers.

		Understand the operation and application of different types of memories (ROM, RAM - static and dynamic, PROM, EPROM, EEPROM, EAPROM) in digital systems.
		Analyze BJT configurations, characteristics, and use transistors as switches.

Common	A11– Python Programming	Understand various statements, data types and functions in Python
		Develop programs in Python programming language
		Understand the basics of Object-oriented programming using Python
		To know about backend processing.
Common	A12 – Sensors and Transducers	Explain resistance, inductance and capacitance transducers.
		Perceive the concepts of temperature transducers.
		Perceive the concepts of level transducers and pressure transducers
		Explain flow transducers, electromagnetic transducers, radiation sensors and sound transducers

SEMESTER IV

Core/Common/ Complimentary	Course Code & Name of Course	Course outcomes
Core	ELE4B06 – Analog Integrated Circuits	Understand operational amplifier configurations and applications.
		Design and analyze filters and waveform generators.
		Utilize comparators and Timer 555 in various applications.
		Comprehend VCO, PLL, and voltage regulators' operation and applications.
Complimentary	ELE4C05 – Communication Electronics	Explain basic electronic communication systems and amplitude modulation (AM) principles.
		Understand frequency and phase modulation, and compare AM, FM, and PM.

		Describe pulse analog modulation techniques and pulse code modulation (PCM).
		Analyze digital carrier modulation techniques, including ASK, FSK, PSK, BPSK, and QPSK.

Common	A14 - Microprocessors Architecture and Programming	To understand digital logic fundamentals, including logic gates, Boolean algebra, combinational circuits, and arithmetic operations, enabling students to design.
		To knowledge to analyze and design sequential circuits using various flip-flops, registers, and counters for applications requiring memory and state manipulation.
		To know about fundamental of a computer, instructions sets, registers, and control mechanisms, enabling you to understand how programs are executed and interact with memory, and interrupts.
		The control unit's design using microprogramming, explain organization with various register structures, instruction formats, and addressing modes, and get know about how instructions are fetched, decoded, and executed.
		To about the advanced memory management techniques , explore various I/O interfaces and data transfer protocols, and to understand how data efficiently flows between the processor, memory, and peripheral devices.

Common	A13 – Data Communication & Optical Fibers	Understand digital and analog signal characteristics, transmission, and processing principles
		Understand the basics and principles of multiplexing in communication systems. <u>Top of Form</u> Bottom of Form
		Understand the role of DLC in ensuring reliable data transmission within communication networks.
		Understand fundamentals of optical fiber communication and Identify and explain optical sources and detectors.

SEMESTER V		
Core/Common/ Complimentary	Course Code & Name of Course	Course outcomes
Core	ELE5B10 – Electromagnetic Theory	Apply vector operations, theorems, and transformations in diverse mathematical contexts.
		Analyze and solve electrostatic problems using Gauss's law and boundary conditions.
		Evaluate magnetic fields, currents, and their interactions using appropriate physical laws.

		Understand Maxwell's equations, wave propagation, and antenna fundamentals comprehensively.
Core	ELE5B11 – Microcontroller & Interfacing	Understand the architecture and internal organization of the 8051 microcontroller.
		Master the 8051 instruction set and addressing modes for efficient programming.
		Implement and manage timers, counters, and various interrupts in the 8051 microcontroller.
		Develop and debug embedded applications using Arduino and its IDE, interfacing various sensors and peripherals.

Core	ELE5B12 - Network Theory	To Apply Ohm's Law, Kirchhoff's Laws (Voltage and Current Laws), and other basic circuit laws for analysis.
		Analyzing transient responses to various input signals and Predicting and interpreting steady-state behavior.
		To equip students with the theoretical knowledge, analytical skills, and practical experience necessary to understand, analyze, and design AC circuits effectively.

		Analyze, design, and utilize series and parallel RLC circuits for resonance applications, as well as to understand and implement various types of filters in electronic systems.
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SEMESTER VI		
Core/Common/Complimentary	Course Code & Name of Course	Course outcomes
Core	ELE6B13 – Communication System	Understand AM spectrum, power relations and AM generation methods like DSBSC and SSB.

		Study FM theory, noise considerations, and generation/detection methods using direct and indirect methods.
		Explore radio receiver types (TRF, superheterodyne), propagation phenomena (ground wave, ionospheric), and receiver performance factors.
		Learn PAM, PWM, PPM, TDM, FDM, CDMA, and digital modulation techniques.
Core	ELE6B14 – Principles of DSP	Understand various types of signals and the Fourier, and Z transforms.
		Classify systems and comprehend their properties, transfer functions, and convolution methods.
		Understand and compute the DFT and its relationship with the Z transform, including FFT algorithms.
		Design and realize digital filters (FIR and IIR) and understand their properties and implementations.

Core	ELE6B15 - Microwave Theory and Techniques	To equip the students with basic understanding of Microwave theory and techniques
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		<p>Learn about microwave components like waveguides, antennas, and transmission lines.</p>
		<p>To equip students with the theoretical knowledge, analytical skills, and practical experience necessary to understand, analyze, and design AC circuits effectively.</p>
		<p>Analyze, design, and utilize series and parallel RLC circuits for resonance applications, as well as to understand and implement various types of filters in electronic systems.</p>
<p>Elective</p>	<p>ELE6B16a – Optical Communication</p>	<p>Explain optical communication principles and fiber characteristics, including critical angle and TIR.</p>
		<p>Understand signal degradation mechanisms in optical fibers and bandwidth limitations.</p>
		<p>Describe optical fiber couplers, splicing techniques, and point-to-point transmission systems.</p>
		<p>Analyze optical sources, detectors, and amplifiers, including LEDs, lasers, and photodiodes.</p>