2.6.1 Course Outcome

2.6. Students Performance and Learning Outcome

Year: 2023-2024

#### **COURSE OUTCOME**

#### **Programme Outcomes:**

The Curriculum offered in the college is prescribed by the University and the College pays attention towards the incorporation of the specific knowledge, skills and attitude a student should develop during his/her tenure of study with respect to a specific Programme. The Programme outcome is graded to the level of education and the specific skill sets that are to be attained have been schemed with utmost care.

#### **Programme Outcome at Undergraduate Level:**

- > Undergraduate students shall be exposed to a new learning atmosphere by way of understanding the concepts and developing in-depth knowledge related to their academic programme.
- Undergraduate students shall be imparted with a complete skill set consisting of analytical, problem solving and critical thinking skills to analyze an individual's strengths and challenges. They shall be equipped to deliver job skills and become skilled professionals in their respective domains.
- > Undergraduate students shall be encouraged to indulge themselves in the self-learning process through co-curricular activities, industrial exposures and field training.
- ➤ Undergraduate students shall be educated with moral and ethical values to shape them into responsible citizens in society.

#### **Programme Outcome at Postgraduate Level:**

- > Post graduate students shall be equipped with intense knowledge in their discipline.
- > Post Graduate students shall develop specialized skills to plan, analyze and draw conclusions related to their respective field of study.
- > Post graduate students will undergo projects and research activities under the guidance of experts to develop knowledge and become experts in their field of study.
- > Post graduate students shall be trained to understand and incorporate new technologies in their own discipline and excel in their area of specialization.

Post graduate students shall develop social and ethical responsibility in the transfer of knowledge.

PRINCIPAL
Principal
THIRUTHANGAL NADAR COLLEGE
\_SELAVAYAL, CHENNAI-600 051.



2.6.1 Course Outcome

Year: 2023-2024

	PROGRAMME:		B.COM GENERAL
Subject Code	Subject Name		Course Outcomes
		CO1	Remember the concept of rectification of errors and Bank reconciliation statements
		CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
146C1A	FINANCIAL ACCOUNTING - I	CO3	Analyse the various methods of providing depreciation
140C1A	I INANCIAL ACCOUNTING - I	CO4	Evaluate the methods of calculation of profit
		CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.
		CO1	Demonstrate the importance of principles of management.
		CO2	Paraphrase the importance of planning and decision making in an organization.
146C1B	PRINCIPLES OF MANAGEMENT	CO3	Comprehend the concept of various authorizes and responsibilities of an organization.
	WAIVAGENERI	CO4	Enumerate the various methods of Performance appraisal
		CO5	Demonstrate the notion of directing, co-coordination and control in the management.
	FINANCIAL ACCOUNTING - II	CO1	To evaluate the Hire purchase accounts and Instalment systems
		CO2	To prepare Branch accounts and Departmental Accounts
146C2A		CO3	To understand the accounting treatment for admission and retirement in partnership
		CO4	To know Settlement of accounts at the time of dissolution of a firm.
		CO5	To elaborate the role of IFRS
	BUSINESS LAW	CO1	Explain the Objectives and significance of Mercantile law
		CO2	Understand the clauses and exceptions of Indian Contract Act.
146C2B		CO3	Explain concepts on performance, breach and discharge of contract.
		CO4	Outline the contract of indemnity and guarantee
		CO5	Explain the various provisions of Sale of Goods Act 1930
	CORPORATE ACCOUNTING I	CO1	Prepare and account for various entries to be passed in case of issue, forfeiture and reissue of shares and compute the liability of underwrites
246C3A		CO2	Asses the accounting treatment of issue and redemption of preference shares and debentures
240C3A	CORFORATE ACCOUNTING I	CO3	Construct Financial Statements applying relevant accounting treatments
		CO4	Compute the value of goodwill and shares under different methods and assess its applicability



### 2.6.1 Course Outcome

Year: 2023-2024

		CO5	Integrate theoretical knowledge on all accounting in par with IFRS and IND AS
		CO1	Understand the classification of companies under the act
		CO2	Examine the contents of the Memorandum of Association & Articles of Association
246C3B	COMPANY LAW	CO3	Know the qualification and disqualification of Auditors
		CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)
		CO5	Analyse the modes of winding up
		CO1	Understand the accounting treatment of amalgamation, Internal and external reconstruction
246C4A	CORPORATE ACCOUNTING –	CO2	Construct Profit and Loss account and Balance Sheet of Banking Companies in accordance in the prescribed format.
240C4A	П	CO3	Synthesize and prepare final accounts of Insurance companies in the prescribed format
		CO4	Give the consolidated accounts of holding companies
		CO5	Preparation of liquidator's final statement of account
		CO1	Develop an understanding on the role and importance of marketing
	PRINCIPLES OF MARKETING	CO2	Apply the 4p's of marketing in their venture
246C4B		CO3	Identify the factors determining pricing
		CO4	Use the different Channels of distribution of industrial goods
		CO5	Understand the concept of E-marketing and E-Tailing
	COST ACCOUNTING – I	CO1	Remember and recall the various concepts of cost accounting
		CO2	Demonstrate the preparation and reconciliation of cost sheet.
346C5A		CO3	Analyse the various valuation methods of issue of materials.
		CO4	Examine the different methods of calculating labour cost.
		CO5	Critically evaluate the apportionment of Overheads.
		CO1	Aware of vvarious provision of Banking Regulation Act 1949 applicable to banking companies including cooperative banks
346C5B	BANKING LAW AND PRACTICE	CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking system in India and their roles and function
	TRACTICE	CO3	Gain knowledge about the Central Bank in India, its formation, nationalizing its organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	Evaluate the role of capital fund of commercial banks, objectives and process of Asset securitization etc
		CO5	Define the practical banking systems relationship of bankers and customers, crossing of cheques, endorsement etc.
		CO1	Demonstrate the understanding of the basic concepts and definitions under the Income Tax Act
346C5C	INCOME TAX LAW AND	CO2	Assess the residential status of an assessee & the incidence of tax.
340C3C	PRACTICE- I	CO3	Compute income of an individual under the head salaries.
		CO4	Ability to compute income from house property.
		CO5	Evaluate income from a business carried on or from the practice of a Profession.
		CO1	Define auditing and its process.
	A LIDITING & CORPORATE	CO2	Compare and contrast essence of internal check and internal control.
346C5D	AUDITING & CORPORATE GOVERNANCE	CO3	Identify the role of auditors in companies.
		CO4	Define the concept of Corporate Governance.
		CO5	Appraise the implications of Corporate Social Responsibility
		CO1	Remember and recall standards in cost accounting
		CO2	Apply the knowledge in contract costing
346C6A	COST ACCOUNTING – II	CO3	Analyze and assimilate concepts in process costing
		CO4	Understand various bases of classification cost and prepare operating cost statement.
		CO5	Set up standards and analyse variances.
		CO1	Remember and recall basics in management accounting
		CO2	Apply the knowledge of preparation of Financial Statements
346C6B	MANAGEMENT ACCOUNTING	CO3	Analyse the concepts relating to fund flow and cash flow
		CO4	Evaluate techniques of budgetary control
		CO5	Formulate criteria for decision making using principles of marginal costing.
		CO1	Formulate criteria for decision making using principles of marginal costing.
346C6C	INCOME TAX LAW AND	CO2	Apply the knowledge about income from other sources
340000	PRACTICE – II	CO3	Analyse the set off and carry forward of losses provisions
		CO4	Learn about assessment of individuals



### 2.6.1 Course Outcome

Year: 2023-2024

		CO5	Apply procedures learnt about assessment procedures.
	PROGRAMME:		B.COM CORPORATE SECRETARYSHIP
<b>Subject Code</b>	Subject Name	<b>Course Outcom</b>	es
		CO1	Remember the concept of rectification of errors and Bank reconciliation statements
		CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
118C1A	FINANCIAL ACCOUNTING	CO3	Analyse the various methods of providing depreciation
ITOCIA	- I	CO4	Evaluate the methods of calculation of profit
		CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.
		CO1	Demonstrate the importance of principles of management.
		CO2	Paraphrase the importance of planning and decision making in an organization.
118C1B	PRINCIPLES OF MANAGEMENT	CO3	Comprehend the concept of various authorizes and responsibilities of an organization.
		CO4	Enumerate the various methods of Performance appraisal
		CO5	Demonstrate the notion of directing, co-coordination and control in the management.
		CO1	To evaluate the Hire purchase accounts and Instalment systems
	EDIANGIAL ACCOUNTING	CO2	To prepare Branch accounts and Departmental Accounts
118C2A	FINANCIAL ACCOUNTING - II	CO3	To understand the accounting treatment for admission and retirement in partnership
		CO4	To know Settlement of accounts at the time of dissolution of a firm.
		CO5	To elaborate the role of IFRS
		CO1	Explain the Objectives and significance of Mercantile law
		CO2	Understand the clauses and exceptions of Indian Contract Act.
118C2B	BUSINESS LAW	CO3	Explain concepts on performance, breach and discharge of contract.
		CO4	Outline the contract of indemnity and guarantee
		CO5	Explain the various provisions of Sale of Goods Act 1930
218C3A	CORPORATE	CO1	Prepare and account for various entries to be passed in case of issue, forfeiture and reissue of shares and compute the liability of underwrites
210C3A	ACCOUNTING I	CO2	Asses the accounting treatment of issue and redemption of preference shares and debentures
		CO3	Construct Financial Statements applying relevant accounting treatments



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	Compute the value of goodwill and shares under different methods and assess its applicability
		CO5	Integrate theoretical knowledge on all accounting in par with IFRS and IND AS
		CO1	Understand the classification of companies under the act
		CO2	Examine the contents of the Memorandum of Association & Articles of Association
218C3B	COMPANY LAW	CO3	Know the qualification and disqualification of Auditors
		CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)
		CO5	Analyse the modes of winding up
		CO1	Understand the accounting treatment of amalgamation, Internal and external reconstruction
210044	CORPORATE ACCOUNTING – II	CO2	Construct Profit and Loss account and Balance Sheet of Banking Companies in accordance in the prescribed format.
218C4A		CO3	Synthesize and prepare final accounts of Insurance companies in the prescribed format
		CO4	Give the consolidated accounts of holding companies
		CO5	Preparation of liquidator's final statement of account
		CO1	Develop an understanding on the role and importance of marketing
		CO2	Apply the 4p's of marketing in their venture
218C4B	PRINCIPLES OF MARKETING	CO3	Identify the factors determining pricing
		CO4	Use the different Channels of distribution of industrial goods
		CO5	Understand the concept of E-marketing and E-Tailing
		CO1	Understand the meaning of cost accounting and its scope and prepare cost sheets.
		CO2	Analyse the various valuation methods of issue of materials.
318C5A	COST ACCOUNTING	CO3	Examine the different methods of calculating labour cost.
		CO4	Critically evaluate the apportionment of Overheads.
		CO5	Calculate Costing using different techniques
318C5B	BANKING LAW AND PRACTICE	CO1	Aware of various provision of Banking Regulation Act 1949 applicable to banking companies including cooperative banks
310C3D		CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking system in India and their roles and function



### 2.6.1 Course Outcome

Year: 2023-2024

		CO3	Gain knowledge about the Central Bank in India, its formation, nationalizing its organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion
		CO4	Evaluate the role of capital fund of commercial banks, objectives and process of Asset securitization etc
		CO5	Define the practical banking systems relationship of bankers and customers, crossing of cheques, endorsement etc.
		CO1	Demonstrate the understanding of the basic concepts and definitions under the Income Tax Act
318C5C	INCOME TAX LAW AND	CO2	Assess the residential status of an assessee & the incidence of tax.
318C3C	PRACTICE- I	CO3	Compute income of an individual under the head salaries.
		CO4	Ability to compute income from house property.
		CO5	Evaluate income from a business carried on or from the practice of a Profession.
		CO1	Define auditing and its process.
	AUDITING & CORPORATE	CO2	Compare and contrast essence of internal check and internal control.
318C5D	AUDITING & CORPORATE GOVERNANCE	CO3	Identify the role of auditors in companies.
	JOVERNI VEL	CO4	Define the concept of Corporate Governance.
		CO5	Appraise the implications of Corporate Social Responsibility
		CO1	Remember and recall basics in management accounting
	MANAGEMENT	CO2	Apply the knowledge of preparation of Financial Statements
318C6A	ACCOUNTING	CO3	Analyse the concepts relating to fund flow and cash flow
		CO4	Evaluate techniques of budgetary control
		CO5	Formulate criteria for decision making using principles of marginal costing.
		CO1	Formulate criteria for decision making using principles of marginal costing.
	INCOME TAX LAW AND	CO2	Apply the knowledge about income from other sources
318C6B	PRACTICE – II	CO3	Analyse the set off and carry forward of losses provisions
		CO4	Learn about assessment of individuals
		CO5	Apply procedures learnt about assessment procedures.



2.6.1 Course Outcome

Year: 2023-2024

		CO1	Acquire institutional experience the nature of school as workplace and their associated values, routines and cultures.
		CO2	Demonstrate professional skills that pertain directly to the institutional experience.
318C6C	INSTITUTIONAL TRAINING	CO3	Analyses the various department activities and their responsibilities
	TRAINING	CO4	Understand the organization structure, layout and to describe the organization's financial statement analysis.
		CO5	Prepare the report based on the training experience.
	PROGRAMME:		B.COM COMPUTER APPLICATION
Subject Code	Subject Name	Course Outcome	es
		CO1	Remember the concept of rectification of errors and Bank reconciliation statements
		CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
147C1A	FINANCIAL ACCOUNTING - I	CO3	Analyse the various methods of providing depreciation
14/CIA		CO4	Evaluate the methods of calculation of profit
		CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.
		CO1	Demonstrate the importance of principles of management.
		CO2	Paraphrase the importance of planning and decision making in an organization.
147C1B	PRINCIPLES OF MANAGEMENT	CO3	Comprehend the concept of various authorizes and responsibilities of an organization.
	WANAOLWENT	CO4	Enumerate the various methods of Performance appraisal
		CO5	Demonstrate the notion of directing, co-coordination and control in the management.
		CO1	To evaluate the Hire purchase accounts and Instalment systems
	EDIANGIAI AGGOLDEDIG	CO2	To prepare Branch accounts and Departmental Accounts
147C2A	FINANCIAL ACCOUNTING - II	CO3	To understand the accounting treatment for admission and retirement in partnership
	- 11	CO4	To know Settlement of accounts at the time of dissolution of a firm.
		CO5	To elaborate the role of IFRS
		CO1	Explain the Objectives and significance of Mercantile law
147C2B	BUSINESS LAW	CO2	Understand the clauses and exceptions of Indian Contract Act.
14/C2D	BUSINESS LAW	CO3	Explain concepts on performance, breach and discharge of contract.
		CO4	Outline the contract of indemnity and guarantee



### 2.6.1 Course Outcome

Year: 2023-2024

		CO5	Explain the various provisions of Sale of Goods Act 1930
		CO1	Prepare and account for various entries to be passed in case of issue, forfeiture and reissue of shares and compute the liability of underwrites
	CORPORATE	CO2	Asses the accounting treatment of issue and redemption of preference shares and debentures
247C3A	CORPORATE ACCOUNTING I	CO3	Construct Financial Statements applying relevant accounting treatments
	1200001121102	CO4	Compute the value of goodwill and shares under different methods and assess its applicability
		CO5	Integrate theoretical knowledge on all accounting in par with IFRS and IND AS
		CO1	Understand the classification of companies under the act
		CO2	Examine the contents of the Memorandum of Association & Articles of Association
247C3B	COMPANY LAW	CO3	Know the qualification and disqualification of Auditors
		CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)
		CO5	Analyse the modes of winding up
	CORPORATE ACCOUNTING – II	CO1	Understand the accounting treatment of amalgamation, Internal and external reconstruction
247C4A		CO2	Construct Profit and Loss account and Balance Sheet of Banking Companies in accordance in the prescribed format.
247C4A		CO3	Synthesize and prepare final accounts of Insurance companies in the prescribed format
		CO4	Give the consolidated accounts of holding companies
		CO5	Preparation of liquidator's final statement of account
		CO1	Develop an understanding on the role and importance of marketing
	PRINCIPLES OF	CO2	Apply the 4p's of marketing in their venture
247C4B	MARKETING	CO3	Identify the factors determining pricing
		CO4	Use the different Channels of distribution of industrial goods
		CO5	Understand the concept of E-marketing and E-Tailing
		CO1	Remember and recall the various concepts of cost accounting
		CO2	Demonstrate the preparation and reconciliation of cost sheet.
347C5A	COST ACCOUNTING – I	CO3	Analyse the various valuation methods of issue of materials.
		CO4	Examine the different methods of calculating labour cost.
		CO5	Critically evaluate the apportionment of Overheads.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO1	Aware of various provision of Banking Regulation Act 1949 applicable to banking companies including cooperative banks
		CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking system in India and their roles and function
347C5B	BANKING LAW AND PRACTICE	CO3	Gain knowledge about the Central Bank in India, its formation, nationalizing its organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion
		CO4	Evaluate the role of capital fund of commercial banks, objectives and process of Asset securitization etc
		CO5	Define the practical banking systems relationship of bankers and customers, crossing of cheques, endorsement etc.
	INCOME TAX LAW AND PRACTICE- I	CO1	Demonstrate the understanding of the basic concepts and definitions under the Income Tax Act
347C5C		CO2	Assess the residential status of an assesse & the incidence of tax.
347030		CO3	Compute income of an individual under the head salaries.
		CO4	Ability to compute income from house property.
		CO5	Evaluate income from a business carried on or from the practice of a Profession.
		CO1	Define auditing and its process.
	AUDITING & CORPORATE GOVERNANCE	CO2	Compare and contrast essence of internal check and internal control.
347C5D		CO3	Identify the role of auditors in companies.
		CO4	Define the concept of Corporate Governance.
		CO5	Appraise the implications of Corporate Social Responsibility
		CO1	Remember and recall standards in cost accounting
		CO2	Apply the knowledge in contract costing
347C6A	COST ACCOUNTING – II	CO3	Analyze and assimilate concepts in process costing
		CO4	Understand various bases of classification cost and prepare operating cost statement.
		CO5	Set up standards and analyse variances.
347C6B	MANAGEMENT	CO1	Remember and recall basics in management accounting
31700B	ACCOUNTING	CO2	Apply the knowledge of preparation of Financial Statements



### 2.6.1 Course Outcome

Year: 2023-2024

		CO3	Analyse the concepts relating to fund flow and cash flow
		CO4	Evaluate techniques of budgetary control
		CO5	Formulate criteria for decision making using principles of marginal costing.
		CO1	Formulate criteria for decision making using principles of marginal costing.
	DICOME TANK AND	CO2	Apply the knowledge about income from other sources
347C6C	INCOME TAX LAW AND PRACTICE – II	CO3	Analyse the set off and carry forward of losses provisions
	TRACTICE II	CO4	Learn about assessment of individuals
		CO5	Apply procedures learnt about assessment procedures.
	PROGRAMME:		B.COM BANK MANAGEMENT
<b>Subject Code</b>	Subject Name	<b>Course Outcom</b>	es
		CO1	Remember the concept of rectification of errors and Bank reconciliation statements
		CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
145C1A	FINANCIAL ACCOUNTING - I	CO3	Analyse the various methods of providing depreciation
143017		CO4	Evaluate the methods of calculation of profit
		CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.
		CO1	Demonstrate the importance of principles of management.
		CO2	Paraphrase the importance of planning and decision making in an organization.
145C1B	PRINCIPLES OF MANAGEMENT	CO3	Comprehend the concept of various authorizes and responsibilities of an organization.
		CO4	Enumerate the various methods of Performance appraisal
		CO5	Demonstrate the notion of directing, co-coordination and control in the management.
		CO1	To evaluate the Hire purchase accounts and Instalment systems
	EDIANGIAL ACCOUNTING	CO2	To prepare Branch accounts and Departmental Accounts
145C2A	FINANCIAL ACCOUNTING - II	CO3	To understand the accounting treatment for admission and retirement in partnership
	11	CO4	To know Settlement of accounts at the time of dissolution of a firm.
		CO5	To elaborate the role of IFRS
		CO1	Explain the Objectives and significance of Mercantile law
145C2B	BUSINESS LAW	CO2	Understand the clauses and exceptions of Indian Contract Act.
		CO3	Explain concepts on performance, breach and discharge of contract.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	Outline the contract of indemnity and guarantee
		CO5	Explain the various provisions of Sale of Goods Act 1930
		CO1	Prepare and account for various entries to be passed in case of issue, forfeiture and reissue of shares and compute the liability of underwrites
	CORPORATE	CO2	Asses the accounting treatment of issue and redemption of preference shares and debentures
245C3A	CORPORATE ACCOUNTING I	CO3	Construct Financial Statements applying relevant accounting treatments
	The contract	CO4	Compute the value of goodwill and shares under different methods and assess its applicability
		CO5	Integrate theoretical knowledge on all accounting in par with IFRS and IND AS
		CO1	Understand the classification of companies under the act
		CO2	Examine the contents of the Memorandum of Association & Articles of Association
245C3B	COMPANY LAW	CO3	Know the qualification and disqualification of Auditors
		CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)
		CO5	Analyse the modes of winding up
		CO1	Understand the accounting treatment of amalgamation, Internal and external reconstruction
245C4A	CORPORATE ACCOUNTING – II	CO2	Construct Profit and Loss account and Balance Sheet of Banking Companies in accordance in the prescribed format.
245C4A		CO3	Synthesize and prepare final accounts of Insurance companies in the prescribed format
		CO4	Give the consolidated accounts of holding companies
		CO5	Preparation of liquidator's final statement of account
		CO1	Develop an understanding on the role and importance of marketing
	PRINCIPLES OF	CO2	Apply the 4p's of marketing in their venture
245C4B	MARKETING	CO3	Identify the factors determining pricing
	W KKETI VG	CO4	Use the different Channels of distribution of industrial goods
		CO5	Understand the concept of E-marketing and E-Tailing
		CO1	Remember and recall the various concepts of cost accounting
345C5A	COST ACCOUNTING – I	CO2	Demonstrate the preparation and reconciliation of cost sheet.
3.30311		CO3	Analyse the various valuation methods of issue of materials.
		CO4	Examine the different methods of calculating labour cost.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO5	Critically evaluate the apportionment of Overheads.
		CO1	Aware of various provision of Banking Regulation Act 1949 applicable to banking companies including cooperative banks
		CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking system in India and their roles and function
345C5B	BANKING LAW AND PRACTICE	СОЗ	Gain knowledge about the Central Bank in India, its formation, nationalizing its organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion
		CO4	Evaluate the role of capital fund of commercial banks, objectives and process of Asset securitization etc
		CO5	Define the practical banking systems relationship of bankers and customers, crossing of cheques, endorsement etc.
	INCOME TAX LAW AND PRACTICE- I	CO1	Demonstrate the understanding of the basic concepts and definitions under the Income Tax Act
345C5C		CO2	Assess the residential status of an assessee & the incidence of tax.
343030		CO3	Compute income of an individual under the head salaries.
		CO4	Ability to compute income from house property.
		CO5	Evaluate income from a business carried on or from the practice of a Profession.
	AUDITING & CORPORATE	CO1	Define auditing and its process.
		CO2	Compare and contrast essence of internal check and internal control.
345C5D	GOVERNANCE -	CO3	Identify the role of auditors in companies.
	GOVERNINEE	CO4	Define the concept of Corporate Governance.
		CO5	Appraise the implications of Corporate Social Responsibility
		CO1	Remember and recall standards in cost accounting
		CO2	Apply the knowledge in contract costing
345C6A	COST ACCOUNTING – II	CO3	Analyze and assimilate concepts in process costing
		CO4	Understand various bases of classification cost and prepare operating cost statement.
		CO5	Set up standards and analyse variances.
345C6B	MANAGEMENT	CO1	Remember and recall basics in management accounting



### 2.6.1 Course Outcome

Year: 2023-2024

	ACCOUNTING	CO2	Apply the knowledge of preparation of Financial Statements
		CO3	Analyse the concepts relating to fund flow and cash flow
		CO4	Evaluate techniques of budgetary control
		CO5	Formulate criteria for decision making using principles of marginal costing.
		CO1	Formulate criteria for decision making using principles of marginal costing.
	INCOME TAX LAW AND	CO2	Apply the knowledge about income from other sources
345C6C	PRACTICE – II	CO3	Analyse the set off and carry forward of losses provisions
		CO4	Learn about assessment of individuals
		CO5	Apply procedures learnt about assessment procedures.
	PROGRAMME:		B.COM ACCOUNTING & FINANCE
Subject Code	Subject Name	Course Outcom	es
		CO1	Remember the concept of rectification of errors and Bank reconciliation statements
		CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
144C1A	FINANCIAL ACCOUNTING	CO3	Analyse the various methods of providing depreciation
ITTCIA	- I	CO4	Evaluate the methods of calculation of profit
		CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.
		CO1	Demonstrate the importance of principles of management.
		CO2	Paraphrase the importance of planning and decision making in an organization.
144C1B	PRINCIPLES OF MANAGEMENT	CO3	Comprehend the concept of various authorizes and responsibilities of an organization.
	WITHVIOLIVILIVI	CO4	Enumerate the various methods of Performance appraisal
		CO5	Demonstrate the notion of directing, co-coordination and control in the management.
		CO1	To evaluate the Hire purchase accounts and Instalment systems
	EDIANGIAL ACCOUNTENC	CO2	To prepare Branch accounts and Departmental Accounts
144C2A	FINANCIAL ACCOUNTING - II	CO3	To understand the accounting treatment for admission and retirement in partnership
	- 11	CO4	To know Settlement of accounts at the time of dissolution of a firm.
		CO5	To elaborate the role of IFRS
144C2B	BUSINESS LAW	CO1	Explain the Objectives and significance of Mercantile law
144C2D	DOBINESS LAW	CO2	Understand the clauses and exceptions of Indian Contract Act.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO3	Explain concepts on performance, breach and discharge of contract.	
		CO4	Outline the contract of indemnity and guarantee	
		CO5	Explain the various provisions of Sale of Goods Act 1930	
		CO1	Prepare and account for various entries to be passed in case of issue, forfeiture and reissue of shares and compute the liability of underwrites	
	CORPORATE	CO2	Asses the accounting treatment of issue and redemption of preference shares and debentures	
244C3A	CORPORATE ACCOUNTING I	CO3	Construct Financial Statements applying relevant accounting treatments	
	1100001111101	CO4	Compute the value of goodwill and shares under different methods and assess its applicability	
		CO5	Integrate theoretical knowledge on all accounting in par with IFRS and IND AS	
		CO1	Understand the classification of companies under the act	
		CO2	Examine the contents of the Memorandum of Association & Articles of Association	
244C3B	COMPANY LAW	CO3	Know the qualification and disqualification of Auditors	
		CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)	
		CO5	Analyse the modes of winding up	
		CO1	Understand the accounting treatment of amalgamation, Internal and external reconstruction	
244C4A	CORPORATE	CO2	Construct Profit and Loss account and Balance Sheet of Banking Companies in accordance in the prescribed format.	
244C4A	ACCOUNTING – II	CO3	Synthesize and prepare final accounts of Insurance companies in the prescribed format	
		CO4	Give the consolidated accounts of holding companies	
		CO5	Preparation of liquidator's final statement of account	
		CO1	Develop an understanding on the role and importance of marketing	
	PRINCIPLES OF	CO2	Apply the 4p's of marketing in their venture	
244C4B	MARKETING	CO3	Identify the factors determining pricing	
	MINICILITIO	CO4	Use the different Channels of distribution of industrial goods	
		CO5	Understand the concept of E-marketing and E-Tailing	
		CO1	Remember and recall the various concepts of cost accounting	
344C5A	COST ACCOUNTING – I	CO2	Demonstrate the preparation and reconciliation of cost sheet.	
		CO3	Analyse the various valuation methods of issue of materials.	



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	Examine the different methods of calculating labour cost.
		CO5	Critically evaluate the apportionment of Overheads.
		CO1	Aware of vvarious provision of Banking Regulation Act 1949 applicable to banking companies including cooperative banks
		CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking system in India and their roles and function
344C5B	BANKING LAW AND PRACTICE	CO3	Gain knowledge about the Central Bank in India, its formation, nationalizing its organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion
		CO4	Evaluate the role of capital fund of commercial banks, objectives and process of Asset securitization etc
		CO5	Define the practical banking systems relationship of bankers and customers, crossing of cheques, endorsement etc.
		CO1	Demonstrate the understanding of the basic concepts and definitions under the Income Tax Act
344C5C	INCOME TAX LAW AND	CO2	Assess the residential status of an assessee & the incidence of tax.
344C3C	PRACTICE- I	CO3	Compute income of an individual under the head salaries.
		CO4	Ability to compute income from house property.
		CO5	Evaluate income from a business carried on or from the practice of a Profession.
		CO1	Define auditing and its process.
	AUDITING & CORPORATE	CO2	Compare and contrast essence of internal check and internal control.
344C5D	GOVERNANCE -	CO3	Identify the role of auditors in companies.
		CO4	Define the concept of Corporate Governance.
		CO5	Appraise the implications of Corporate Social Responsibility
		CO1	Remember and recall standards in cost accounting
		CO2	Apply the knowledge in contract costing
344C6A	COST ACCOUNTING – II	CO3	Analyze and assimilate concepts in process costing
		CO4	Understand various bases of classification cost and prepare operating cost statement.
		CO5	Set up standards and analyse variances.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO1	Remember and recall basics in management accounting	
	MANAGENERIE	CO2	Apply the knowledge of preparation of Financial Statements	
344C6B	MANAGEMENT ACCOUNTING	CO3	Analyse the concepts relating to fund flow and cash flow	
	Accounting	CO4	Evaluate techniques of budgetary control	
		CO5	Formulate criteria for decision making using principles of marginal costing.	
		CO1	Formulate criteria for decision making using principles of marginal costing.	
	DICONE TANK AND	CO2	Apply the knowledge about income from other sources	
344C6C	INCOME TAX LAW AND PRACTICE – II	CO3	Analyse the set off and carry forward of losses provisions	
	TRACTICE II	CO4	Learn about assessment of individuals	
		CO5	Apply procedures learnt about assessment procedures.	
	<b>PROGRAMME:</b>		B.COM INFORMATION SYSTEM MANAGEMENT	
<b>Subject Code</b>	Subject Name	Course Outcome	es	
		CO1	Remember the concept of rectification of errors and Bank reconciliation statements	
		CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns	
151C1A	FINANCIAL ACCOUNTING	CO3	Apply the knowledge in preparing detailed accounts of sole trading concerns  Analyse the various methods of providing depreciation  Evaluate the methods of calculation of profit	
IJICIA	- I	CO4	Evaluate the methods of calculation of profit	
		CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.	
		CO1	Demonstrate the importance of principles of management.	
		CO2	Paraphrase the importance of planning and decision making in an organization.	
151C1B	PRINCIPLES OF MANAGEMENT	CO3	Comprehend the concept of various authorizes and responsibilities of an organization.	
	WANAGEMENT	CO4	Enumerate the various methods of Performance appraisal	
		CO5	Demonstrate the notion of directing, co-coordination and control in the management.	
		CO1	To evaluate the Hire purchase accounts and Instalment systems	
		CO2	To prepare Branch accounts and Departmental Accounts	
151C2A	FINANCIAL ACCOUNTING - II	CO3	To understand the accounting treatment for admission and retirement in partnership	
	11	CO4	To know Settlement of accounts at the time of dissolution of a firm.	
		CO5	To elaborate the role of IFRS	
151C2B	BUSINESS LAW	CO1	Explain the Objectives and significance of Mercantile law	



### 2.6.1 Course Outcome

Year: 2023-2024

		CO2	Understand the clauses and exceptions of Indian Contract Act.
		CO3	Explain concepts on performance, breach and discharge of contract.
		CO4	Outline the contract of indemnity and guarantee
		CO5	Explain the various provisions of Sale of Goods Act 1930
		CO1	Prepare and account for various entries to be passed in case of issue, forfeiture and reissue of shares and compute the liability of underwrites
	GODDOD A TEL	CO2	Asses the accounting treatment of issue and redemption of preference shares and debentures
251C3A	CORPORATE ACCOUNTING I	CO3	Construct Financial Statements applying relevant accounting treatments
	ACCOUNTING I	CO4	Compute the value of goodwill and shares under different methods and assess its applicability
		CO5	Integrate theoretical knowledge on all accounting in par with IFRS and IND AS
		CO1	Understand the classification of companies under the act
		CO2	Examine the contents of the Memorandum of Association & Articles of Association
251C3B	COMPANY LAW	CO3	Know the qualification and disqualification of Auditors
		CO4	Understand the workings of National Company Law Appellate Tribunal (NCLAT)
		CO5	Analyse the modes of winding up
		CO1	Understand the accounting treatment of amalgamation, Internal and external reconstruction
251C4A	CORPORATE	CO2	Construct Profit and Loss account and Balance Sheet of Banking Companies in accordance in the prescribed format.
231C4A	ACCOUNTING – II	CO3	Synthesize and prepare final accounts of Insurance companies in the prescribed format
		CO4	Give the consolidated accounts of holding companies
		CO5	Preparation of liquidator's final statement of account
		CO1	Develop an understanding on the role and importance of marketing
	PRINCIPLES OF	CO2	Apply the 4p's of marketing in their venture
251C4B	MARKETING	CO3	Identify the factors determining pricing
		CO4	Use the different Channels of distribution of industrial goods
		CO5	Understand the concept of E-marketing and E-Tailing
351C5A	COST ACCOUNTING – I	CO1	Remember and recall the various concepts of cost accounting
3310311	COST MCCOUNTING -1	CO2	Demonstrate the preparation and reconciliation of cost sheet.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO3	Analyse the various valuation methods of issue of materials.
		CO4	Examine the different methods of calculating labour cost.
		CO5	Critically evaluate the apportionment of Overheads.
		CO1	Aware of various provision of Banking Regulation Act 1949 applicable to banking companies including cooperative banks
		CO2	Analyse the evolution of Central Banking concept and prevalent Central Banking system in India and their roles and function
351C5B	BANKING LAW AND PRACTICE	CO3	Gain knowledge about the Central Bank in India, its formation, nationalizing its organization structure, role of bank to government, role in promoting agriculture and industry, role in financial inclusion
		CO4	
		CO5	Define the practical banking systems relationship of bankers and customers, crossing of cheques, endorsement etc.
		CO1	Demonstrate the understanding of the basic concepts and definitions under the Income Tax Act
351C5C	INCOME TAX LAW AND	CO2	Assess the residential status of an assessee & the incidence of tax.
331030	PRACTICE- I	CO3	Compute income of an individual under the head salaries.
		CO4	Ability to compute income from house property.
		CO5	Evaluate income from a business carried on or from the practice of a Profession.
		CO1	Define auditing and its process.
	AUDITING & CORPORATE	CO2	Compare and contrast essence of internal check and internal control.
351C5D	GOVERNANCE _	CO3	Identify the role of auditors in companies.
		CO4	Define the concept of Corporate Governance.
		CO5	Appraise the implications of Corporate Social Responsibility
		CO1	Remember and recall standards in cost accounting
351C6A	COST ACCOUNTING – II	CO2	Apply the knowledge in contract costing
2210011		CO3	Analyze and assimilate concepts in process costing
		CO4	Understand various bases of classification cost and prepare operating cost statement.



2.6.1 Course Outcome

Year:	2023-2024

		CO5	Set up standards and analyse variances.
		CO1	Remember and recall basics in management accounting
		CO2	Apply the knowledge of preparation of Financial Statements
351C6B	MANAGEMENT ACCOUNTING	CO3	Analyse the concepts relating to fund flow and cash flow
	Accounting	CO4	Evaluate techniques of budgetary control
		CO5	Formulate criteria for decision making using principles of marginal costing.
		CO1	Formulate criteria for decision making using principles of marginal costing.
	DICONE TANA AND	CO2	Apply the knowledge about income from other sources
351C6C	INCOME TAX LAW AND PRACTICE – II	CO3	Analyse the set off and carry forward of losses provisions
	TWICTIEL II	CO4	Learn about assessment of individuals
		CO5	Apply procedures learnt about assessment procedures.
	PROGRAMME:		BBA
<b>Subject Code</b>	Subject Name	Course Outcom	nes
		CO1	Describe nature, scope, role, levels, functions and approaches of management
		CO2	Apply planning and decision making in management
150C1A	Principles of Management	CO3	Identify organization structure and various organizing techniques
		CO4	Understand Direction, Co-ordination & Control mechanisms
		CO5	Relate and infer ethical practices of organisation.
		CO1	Prepare Journal, ledger, trial balance and cash book
		CO2	Classify errors and making rectification entries
150C1B	Accounting for Managers I	CO3	Prepare final accounts with adjustments
		CO4	To understand Hire Purchase system
		CO5	Prepare single and double entry system of accounting.
		CO1	To list and identify the core concepts of Marketing and its mix.
	MADIZETINIC	CO2	To sketch the market segmentation, nature of product, PLC
150C2A	MARKETING MANAGEMENT	CO3	To analyze the appropriate pricing methods
		CO4	To determine the importance of various media
	_	CO5	To assess the sales force and applications of digital marketing
150C2B	Accounting for Managers II	CO1	Interpret cost sheet & write comments.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO2	Compare cost, management & financial accounting
		CO3	Analyze the various ratio and compare it with standards to assess deviations
		CO4	Estimate budget and use budgetary control
		CO5	Evaluate marginal costing and its components
		CO1	To define Organisational Behaviour, Understand the opportunity through OB.
	ODC AND ATION AT	CO2	To apply self-awareness, motivation, leadership and learning theories at workplace.
250C3A	ORGANIZATIONAL BEHAVIOUR	CO3	To analyze the complexities and solutions of group behaviour
	BEHAVIOCK	CO4	To impact and bring positive change in the culture of the organisaiton.
		CO5	To create a congenial climate in the organization.
		CO1	Understand the basics of finance and roles of finance manager
		CO2	Evaluate Capital structure & Cost of capital
250C3B	Financial Management	CO3	Evaluate Capital budgeting
		CO4	Assessing dividends
		CO5	Appraise Working Capital
		CO1	To understand the concepts of Business Environment.
		CO2	To apply knowledge in the business and strategic decisions.
250C4A	Business Environment	CO3	To analyze the importance of business in various social groups.
		CO4	To evaluate the types of economic environment and its impact on business.
		CO5	To construct and assess the environment for real-time business
		CO1	Explain Indian Contracts Act
	BUSINESS REGULATORY	CO2	Understand Sales of goods act and Contract of Agency
250C4B	FRAME WORK	CO3	Understand Indian Companies Act 1956
		CO4	Understand Consumer Protection Act – RTI
		CO5	Understand Cyber law
		CO1	Explain the concepts, functions and process of HRM
	LILIMAN DESOLIDOS	CO2	Examine the selection and placement process
350C5A	HUMAN RESOURCE MANAGEMENT	CO3	Evaluate the training and performance appraisal
		CO4	Understand the employee engagement and compensation
		CO5	Understand the recent trends in HR



### 2.6.1 Course Outcome

Year: 2023-2024

		CO1	Understand the concepts and principles of Research
		CO2	Comprehend and decide the usage of design and formulate hypothesis
350C5B	Research Methodology	CO3	Analyze data collection sources and tools
		CO4	Summarize and establish solutions through data analysis
		CO5	Compare and justify the process of writing and organizing a research report.
		CO1	To define and understand the basic concepts of tax.
		CO2	To Examine and apply GST rules in real-time business situations.
350C5C	Business Taxation	CO3	To analyze the elements of GST mechanism in India.
		CO4	To evaluate the rules of Income Tax and methods of valuation for customs.
		CO5	To prepare the needed documents under GST Compliance.
		CO1	Gain knowledge about Research Project
		CO2	Increase knowledge on research problem
350C5D:	PROJECT WORK	CO3	Improve practice in review of literature
		CO4	Gain knowledge on Data Collection and Analysis
		CO5	Be Proficient in Project Preparation
		CO1	To understand the concepts of Entrepreneurship development.
		CO2	To apply knowledge in the business plans and implementation.
350C6A	Entrepreneurship Development	CO3	To analyze the various analyses of business in setting up of enterprises.
330C0A	Entrepreneurship Development	CO4	To create the awareness about various schemes and subsidies of government for entrepreneurial development.
		CO5	To evaluate and assess the various problems and remedies of entrepreneurship
		CO1	To define and understand the concepts of Services Marketing.
		CO2	To Examine and apply Marketing Mix in Service Marketing.
350C6B	SERVICES MARKETING	CO3	To analyze and design various strategies in the field of Services Marketing.
		CO4	To evaluate the role of delivering Quality Service.
		CO5	To design the tools of Marketing
	Duoduction 9 Metaricle	CO1	Provide comprehensive outlook on basic concepts, and practices of production
350C6C	Production & Materials  Management	CO2	Identify right plant location and plant layout of factory
	Management	CO3	Know work study & method study, its procedure & quality control techniques in production.



### 2.6.1 Course Outcome

Year: 2023-2024

Knowledge is Power			
1		CO4	Outline inventory control concepts and its replenishment to manage inventory
'	<u></u> '	CO5	Discuss purchase management procedure and identify vendor rating mechanisms
	PROGRAMME:		BCA
Subject Code	Subject Name	Course Outcome	ies
		CO1	To understand the problem solving approaches
ı	DATE TO A DE COR A MAINO	CO2	To understand the problem solving approaches
120C11	PYTHON PROGRAMMING PRACTICAL	CO3	To practice various computing strategies for Python-based solutions to real world problems
ı	INACIICAL	CO4	To use Python data structures - lists, tuples, dictionaries.
		CO5	To do input/output with files in Python.
		CO1	Develop & execute simple Python Programs
ı	DATE TO A DE COR A MAINO	CO2	Write simple Python programs using conditionals and looping for solving problems
120C1A	PYTHON PROGRAMMING THEORY	CO3	Decompose a Python program into functions
ı		CO4	Represent compound data using Python lists, tuples, dictionaries etc.
		CO5	Read and write data from/to files in Python programs
l		CO1	Design and create classes. Implement Stream I/O as appropriate.
ı	1	CO2	Design appropriate data members and member functions.
120C21	Object Oriented Programming using C++ Practical	CO3	Implement functions, friend functions, static members, constructors and compile-time polymorphism.
	1	CO4	Implement inheritance, run-time polymorphism and destructors.
ı	1	CO5	Implement templates and exceptions. Use STL class library. Implement File I/O.
1		CO1	Explain the various basic concepts of Object-orientation.
ı	1	CO2	Write programs to implement static binding
120C2A	Object Oriented Programming	CO3	Write programs to implement inheritance and dynamic binding
12002A	using C++ Theory	CO4	Write programs to implement templates and exception handling and learn how to use STL class library.
		CO5	Write programs implementing File and Stream I/O.
		CO1	Implement data structures using C++
220C31	DATA STRUCTURES PRACTICAL	CO2	Implement various types of linked lists and their applications
ļ	FRACIICAL	CO3	Implement Tree Traversals



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	Implement various algorithms in C++
		CO1	To introduce the concepts of Data structures and to understand simple linear data structures.
		CO2	Learn the basics of stack data structure, its implementation and application
220C3A	DATA STRUCTURES THEORY	CO3	Use the appropriate data structure in context of solution of given problem and demonstrate a familiarity with major data structures.
	THEORT	CO4	To introduce the basic concepts of algorithms
		CO5	To give clear idea on algorithmic design paradigms like Divide and conquer and Backtracking,
		CO1	Code, debug and execute Java programs to solve the given problems
	LAVA DROCK AND MNC	CO2	Implement multi-threading and exception-handling
220C41	JAVA PROGRAMMING PRACTICAL	CO3	Implement functionality using String and String Buffer classes
		CO4	Demonstrate Event Handling.
		CO5	Create applications using Swing and AWT
		CO1	Understand the basic Object-oriented concepts. Implement the basic constructs of Core Java
	JAVA PROGRAMMING	CO2	Implement inheritance, packages, interfaces and exception handling of Core Java.
220C4A	THEORY	CO3	Implement multi-threading and I/O Streams of Core Java
		CO4	Implement AWT and Event handling
		CO5	Use Swing to create GUI.
		CO1	On the completion of this laboratory course the students ought to
		CO2	Obtain knowledge and develop application programs using Python.
320C51	Web Technology Practical	CO3	Create dynamic Web applications such as content management, user registration, and ecommerce using PHP and to understand the ability to post and publish a PHP website.
		CO4	Develop a MySQL database and establish connectivity using MySQL.
		CO1	Understand the structure and functions of Operating System
320C5A	OPERATING SYSTEM	CO2	Compare the performance of Scheduling Algorithms
		CO3	Analyse resource management techniques
	Deletional Detaken	CO1	Describe basic concepts of database system
320C5B	Relational Database Management System	CO2	Design a Data model and Schemas in RDBMS
	management bystem	CO3	Competent in use of SQL



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	Analyse functional dependencies for designing robust Database
220050		CO1	Understand the general concepts of PHP scripting language for the development of Internet websites.
320C5C	Web Technology	CO2	Understand the basic functions of MySQL database program and XML concepts
		CO3	Learn the relationship between the client side and the server side scripts.
		CO1	To understand the problem solving approaches
		CO2	To learn the basic programming constructs in R Programming
320C61	R-Programming Practical	CO3	To practice various computing strategies for R Programming -based solutions to real world problems
		CO4	To use R Programming data structures - lists, tuples, dictionaries.
		CO5	To do input/output with files in R Programming
		CO1	To understand the problem solving approaches
	R-Programming	CO2	To learn the basic programming constructs in R Programming
320C6A		CO3	To learn the basic programming constructs in R Programming
		CO4	To use R Programming data structures - lists, tuples, dictionaries
		CO5	To do input/output with files in R Programming.
	Advanced Networking	CO1	To Understand the basics of Computer Network architecture, OSI and TCP/IP reference models
		CO2	To gain knowledge on Telephone systems and Satellite communications
320C6B		CO3	To impart the concept of Elementary data link protocols
		CO4	To analyze the characteristics of Routing and Congestion control algorithms
		CO5	To understand network security and define various protocols such as FTP, HTTP, Telnet, DNS
	PROGRAMME:		B.Sc Computer Science
Subject Code	Subject Name	Course Outcom	es
	PYTHON PROGRAMMING PRACTICAL	CO1	To understand the problem solving approaches
125C11		CO2	To understand the problem solving approaches
123011		CO3	To practice various computing strategies for Python-based solutions to real world problems
		CO4	To use Python data structures - lists, tuples, dictionaries.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO5	To do input/output with files in Python.
		CO1	Develop & execute simple Python Programs
		CO2	Write simple Python programs using conditionals and looping for solving problems
125C1A	PYTHON PROGRAMMING THEORY	CO3	Decompose a Python program into functions
	THEORY	CO4	Represent compound data using Python lists, tuples, dictionaries etc.
		CO5	Read and write data from/to files in Python programs
		CO1	Remember the Basic binary codes and their conversions. Binary concepts are used in Microprocessor programming and provide a good understanding of the architecture of 8085.
125C21	Introduction to Computer Architecture and	CO2	Understanding the 8085-instruction set and their classifications, enables the students to write the programs easily on their own using different logic.
	Microprocessor Practical	CO3	Applying different types of instructions to convert binary codes and analysing the outcome. The instruction set is applied to develop programs on multibyte arithmetic operations.
		CO4	Analyse how peripheral devices are connected to 8085 using Interrupts and DMA controller.
		CO1	Remember the Basic binary codes and their conversions. Binary concepts are used in Microprocessor programming and provide a good understanding of the architecture of 8085.
125C2A	Introduction to Computer Architecture and	CO2	Understanding the 8085 instruction set and their classifications, enables the students to write the programs easily on their own using different logic.
	Microprocessor	CO3	Applying different types of instructions to convert binary codes and analysing the outcome. The instruction set is applied to develop programs on multibyte arithmetic operations.
		CO4	Analyse how peripheral devices are connected to 8085 using Interrupts and DMA controller.
		CO1	Code, debug and execute Java programs to solve the given problems
	TAMA PROGRAMANIC	CO2	Implement multi-threading and exception-handling
225C31	JAVA PROGRAMMING PRACTICAL	CO3	Implement functionality using String and String Buffer classes
	TRACTICAL	CO4	Demonstrate Event Handling.
		CO5	Create applications using Swing and AWT
		CO1	Understand the basic Object-oriented concepts. Implement the basic constructs of Core Java
225C3A	JAVA PROGRAMMING	CO2	Implement inheritance, packages, interfaces and exception handling of Core Java.
223C3A	THEORY	CO3	Implement multi-threading and I/O Streams of Core Java
		CO4	Implement AWT and Event handling



### 2.6.1 Course Outcome

Year: 2023-2024

		CO5	Use Swing to create GUI.
		CO1	Implement data structures using Java
		CO2	Implement various types of linked lists and their applications
225C41	Data Structures and Algorithms Practical	CO3	Implement Tree Traversals
	Aigoriums i facticai	CO4	Implement various algorithms in Java
		CO5	Implement different sorting and searching algorithms
		CO1	To introduce the concepts of Data structures and to understand simple linear data structures.
		CO2	Learn the basics of stack data structure, its implementation and application
225C4A	Data Structures and Algorithms	CO3	Use the appropriate data structure in context of solution of given problem and demonstrate a familiarity with major data structures.
	Aigoriums	CO4	To introduce the basic concepts of algorithms
		CO5	To give clear idea on algorithmic design paradigms like Divide and conquer and Backtracking,
	Operating System Practical	CO1	Understand the process management policies and scheduling process by CPU.
325C51		CO2	Analyse the memory management and its allocation policies.
		CO3	To evaluate the requirement for process synchronization.
	Relational Database  Management System Practical	CO1	Implement the DDL, DML Commands and Constraints
325C52		CO2	Create, Update and query on the database.
		CO3	Design and Implement simple project with Front End and Back End.
	OPERATING SYSTEM	CO1	Understand the structure and functions of Operating System
325C5A		CO2	Compare the performance of Scheduling Algorithms
		CO3	Analyse resource management techniques
		CO1	Describe basic concepts of database system
325C5B	Relational Database	CO2	Design a Data model and Schemas in RDBMS
323031	Management System	CO3	Competent in use of SQL
		CO4	Analyse functional dependencies for designing robust Database
325C61	Programming in ASP.NET Practical	CO1	To identify and understand the goals and objectives of the .NET framework and ASP.NET with C# language.
		CO2	To develop web application using various controls.



2.6.1 Course Outcome

Year: 2023-2024

		CO3	To analyse C# programming techniques in developing web applications
		CO4	To assess a Web application using Microsoft ADO.NET.
		CO5	To develop a software to solve real-world problems using ASP.NET
		CO1	To identify and understand the goals and objectives of the .NET framework and ASP.NET with C# language.
325C6A	Decomming in ASD NET	CO2	To develop web application using various controls
323C0A	Programming in ASP.NET	CO3	To analyse C# programming techniques in developing web applications.
		CO4	To assess a Web application using Microsoft ADO.NET.
		CO5	To develop a software to solve real-world problems using ASP.NET
	PROGRAMME:		B.Sc Computer Science with Artificial Intelligence
Subject Code	Subject Name	<b>Course Outcom</b>	es
	PYTHON PROGRAMMING PRACTICAL	CO1	To understand the problem solving approaches
		CO2	To understand the problem solving approaches
126C11		CO3	To practice various computing strategies for Python-based solutions to real world problems
		CO4	To use Python data structures - lists, tuples, dictionaries.
		CO5	To do input/output with files in Python.
		CO1	Develop & execute simple Python Programs
		CO2	Write simple Python programs using conditionals and looping for solving problems
126C1A	PYTHON PROGRAMMING THEORY	CO3	Decompose a Python program into functions
	THEORY	CO4	Represent compound data using Python lists, tuples, dictionaries etc.
		CO5	Read and write data from/to files in Python programs
		CO1	Code, debug and execute Java programs to solve the given problems
	LAMA DROCRAMAING	CO2	Implement multi-threading and exception-handling
126C21	JAVA PROGRAMMING PRACTICAL	CO3	Implement functionality using String and String Buffer classes
	FRACTICAL	CO4	Demonstrate Event Handling.
		CO5	Create applications using Swing and AWT
	IANA DDOCDANAMING	CO1	Understand the basic Object-oriented concepts. Implement the basic constructs of Core Java
126C2A	JAVA PROGRAMMING THEORY	CO2	Implement inheritance, packages, interfaces and exception handling of Core Java.
		CO3	Implement multi-threading and I/O Streams of Core Java



### 2.6.1 Course Outcome

Year: 2023-2024

1		CO4	Implement AWT and Event handling
		CO5	Use Swing to create GUI.
		CO1	Implement data structures using C++
226C31	DATA STRUCTURES	CO2	Implement various types of linked lists and their applications
220C31	PRACTICAL	CO3	Implement Tree Traversals
		CO4	Implement various algorithms in C++
		CO1	To introduce the concepts of Data structures and to understand simple linear data structures.
		CO2	Learn the basics of stack data structure, its implementation and application
226C3A	DATA STRUCTURES THEORY	CO3	Use the appropriate data structure in context of solution of given problem and demonstrate a familiarity with major data structures.
	TILORI	CO4	To introduce the basic concepts of algorithms
		CO5	To give clear idea on algorithmic design paradigms like Divide and conquer and Backtracking,
	Prolog Practical	CO1	Demonstrate Logic Programming Paradigm, Prolog execution models, Prolog's basic and advanced pro log concepts such as LIST, CUT, and Fail using illustrative programming examples.
226C41		CO2	Convert world knowledge into FOPL formula and construct well-crafted prolog programmes of moderate size
		CO3	Apply truth functional propositional Logic(PL) and first order predicate logic (FOPL) to world knowledge
		CO4	Describe the basic predicates to manipulate list data structure and sorting algorithms using PROLOG programming
226C4A	226C4A Introduction to Artificial Intelligence	CO1	Demonstrate fundamental understanding of the history of artificial intelligence (AI) and its foundations.
		CO2	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning.
		CO3	Demonstrate awareness and a fundamental understanding of various applications of AI techniques
		CO4	Demonstrate proficiency developing applications in Prolog.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO5	Demonstrate an ability to share in discussions of AI, its current scope and limitations, and societal implications
		CO1	Implement Spatial Operations in Image Processing
326C51	Commutan Visian Prostical	CO2	Implement the Image Gradients and Edge Detection Techniques
320C31	Computer Vision Practical	CO3	Implement Extraction of desired features
		CO4	Implement object detection
		CO1	Describe the concepts of morphology, syntax, semantics, discourse & pragmatics of natural language.
326C52	Natural Language Processing	CO2	Demonstrate understanding of the relationship between NLP and statistics & machine learning.
320C32	Practical	CO3	Discover various linguistic and statistical features relevant to the basic NLP task, namely, spelling correction, morphological analysis, parts-of-speech tagging, parsing and semantic analysis.
		CO4	Develop systems for various NLP problems with moderate complexity
		CO1	Describe the fundamental concepts and techniques of natural language processing.
326C5B	Natural Language Processing	CO2	Distinguish among the various techniques, taking into account the assumptions, strengths, and weaknesses of each.
320C3B		CO3	Use appropriate descriptions, visualizations, and statistics to communicate the problems and their solutions.
		CO4	Analyse large volume text data generated from a range of real-world applications.
		CO1	Design and evaluate the unsupervised models through python in built functions.
326C61	Machine Learning Practical	CO2	Evaluate the machine learning model algorithms by python programming.
320001	Machine Learning Fractical	CO3	Design and apply various reinforcement algorithms to solve real time complex problems
		CO4	Design and develop the code for the recommender system using Natural Language processing
		CO1	Implement different machine learning algorithm techniques.
326C6A	Machine Learning	CO2	Apply the algorithms to a real-world problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.
		CO3	Apply appropriate data sets to the Machine Learning algorithms.
		CO4	Identify and apply Machine Learning algorithms to solve real world problems.



### 2.6.1 Course Outcome

Year: 2023-2024

22.656	Francis Lauria	CO1	Identify and describe soft computing techniques and their roles in building intelligent Machines.
326C6B	Fuzzy Logic	CO2	Apply fuzzy logic and reasoning to handle uncertainty and solve engineering problems
		CO3	Recognize the feasibility of applying a soft computing methodology for a particular Problem.
	<b>PROGRAMME:</b>		B.Sc Software Applications
Subject Code	Subject Name	<b>Course Outcom</b>	es
		CO1	To understand the problem solving approaches
	DVTHON DDOCD AND AND	CO2	To understand the problem solving approaches
141C11	PYTHON PROGRAMMING PRACTICAL	CO3	To practice various computing strategies for Python-based solutions to real world problems
		CO4	To use Python data structures - lists, tuples, dictionaries.
		CO5	To do input/output with files in Python.
		CO1	Develop & execute simple Python Programs
	DVTHON DDOCD A MAINC	CO2	Write simple Python programs using conditionals and looping for solving problems
141C1A	PYTHON PROGRAMMING THEORY	CO3	Decompose a Python program into functions
		CO4	Represent compound data using Python lists, tuples, dictionaries etc.
		CO5	Read and write data from/to files in Python programs
		CO1	Design and create classes. Implement Stream I/O as appropriate.
	Object Oriented Programming using C++ Practical	CO2	Design appropriate data members and member functions.
141C21		CO3	Implement functions, friend functions, static members, constructors and compile-time polymorphism.
		CO4	Implement inheritance, run-time polymorphism and destructors.
		CO5	Implement templates and exceptions. Use STL class library. Implement File I/O.
		CO1	Explain the various basic concepts of Object-orientation.
		CO2	Write programs to implement static binding
141C2A	Object Oriented Programming	CO3	Write programs to implement inheritance and dynamic binding
17102/1	using C++ Theory	CO4	Write programs to implement templates and exception handling and learn how to use STL class library.
		CO5	Write programs implementing File and Stream I/O.
241C31	Web Technology Practical	CO1	On the completion of this laboratory course the students ought to



### 2.6.1 Course Outcome

Year: 2023-2024

		CO2	Obtain knowledge and develop application programs using Python.
		CO3	Create dynamic Web applications such as content management, user registration, and ecommerce using PHP and to understand the ability to post and publish a PHP website.
		CO4	Develop a MySQL database and establish connectivity using MySQL.
241C3A	Web Technology	CO1	Understand the general concepts of PHP scripting language for the development of Internet websites.
241C3A	web rechnology	CO2	Understand the basic functions of MySQL database program and XML concepts
		CO3	Learn the relationship between the client side and the server side scripts.
		CO1	Code, debug and execute Java programs to solve the given problems
	LAVIA DROCD AMMINIC	CO2	Implement multi-threading and exception-handling
241C41	JAVA PROGRAMMING PRACTICAL	CO3	Implement functionality using String and String Buffer classes
		CO4	Demonstrate Event Handling.
		CO5	Create applications using Swing and AWT
	JAVA PROGRAMMING THEORY	CO1	Understand the basic Object-oriented concepts. Implement the basic constructs of Core Java
		CO2	Implement inheritance, packages, interfaces and exception handling of Core Java.
241C4A		CO3	Implement multi-threading and I/O Streams of Core Java
		CO4	Implement AWT and Event handling
		CO5	Use Swing to create GUI.
	Deletional Detakes	CO1	Implement the DDL, DML Commands and Constraints
341C51	Relational Database  Management System Practical	CO2	Create, Update and query on the database.
		CO3	Design and Implement simple project with Front End and Back End.
	<u> </u>	CO1	Describe basic concepts of database system
341C5A	Relational Database	CO2	Design a Data model and Schemas in RDBMS
341C3A	Management System	CO3	Competent in use of SQL
		CO4	Analyse functional dependencies for designing robust Database
341C52	Programming in ASP.NET	CO1	To identify and understand the goals and objectives of the .NET framework and ASP.NET with C# language.
341C32	Practical	CO2	To develop web application using various controls.
		CO3	To analyse C# programming techniques in developing web applications



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	To assess a Web application using Microsoft ADO.NET.
		CO5	To develop a software to solve real-world problems using ASP.NET
		CO1	To identify and understand the goals and objectives of the .NET framework and ASP.NET with C# language.
341C5B	Due communication ACD NET	CO2	To develop web application using various controls
341C3B	Programming in ASP.NET	CO3	To analyse C# programming techniques in developing web applications.
		CO4	To assess a Web application using Microsoft ADO.NET.
		CO5	To develop a software to solve real-world problems using ASP.NET
		CO1	To understand the problem solving approaches
		CO2	To learn the basic programming constructs in R Programming
341C61	R-Programming Practical	CO3	To practice various computing strategies for R Programming -based solutions to real world problems
		CO4	To use R Programming data structures - lists, tuples, dictionaries.
		CO5	To do input/output with files in R Programming
	R-Programming	CO1	To understand the problem solving approaches
		CO2	To learn the basic programming constructs in R Programming
341C6A		CO3	To learn the basic programming constructs in R Programming
		CO4	To use R Programming data structures - lists, tuples, dictionaries
		CO5	To do input/output with files in R Programming.
	PROGRAMME:		B.Sc Chemistry
Subject Code	Subject Name	Course Outcom	es
		CO1	explain the basic principles involved in titrimetric analysis and inorganic preparations.
	Quantitative Inorganic	CO2	compare the methodologies of different titrimetric analysis.
124C11	Estimation (titrimetry) and Inorganic Preparations	CO3	calculate the concentrations of unknown solutions in different ways and develop the skill to estimate the amount of a substance present in a given solution.
		CO4	assess the yield of different inorganic preparations and identify the end point of various titrations.
124C1A	GENERAL CHEMISTRY-I	CO1	explain the atomic structure, wave particle duality of matter, periodic properties bonding, and properties of compounds.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO2	classify the elements in the periodic table, types of bonds, reaction intermediates electronic effects in organic compounds, types of reagents.
		CO3	apply the theories of atomic structure, bonding, to calculate energy of a spectral transition, $\Delta x$ , $\Delta p$ electronegativity, percentage ionic character and bond order.
		CO4	evaluate the relationship existing between electronic configuration, bonding, geometry of molecules and reactions; structure reactivity and electronic effects
		CO5	construct MO diagrams, predict trends in periodic properties, assess the properties of elements, and explain hybridization in molecules, nature of H – bonding and organic reaction mechanisms.
		CO1	observe the physical state, odour, colour and solubility of the given organic compound.
	QUALITATIVE ORGANIC	CO2	identify the presence of special elements and functional group in an unknown organic compound performing a systematic analysis.
124C21	ANALYSIS AND PREPARATION OF ORGANIC COMPOUNDS	CO3	compare mono and dicarboxylic acids, primary, secondary and tertiary amines, mono and diamides, mono and polyhydric phenols, aldehyde and ketone, reducing and nonreducing sugars and explain the reactions behind it.
		CO4	exhibit a solid derivative with respect to the identified functional group.
	GENERAL CHEMISTRY-II	CO1	explain the concept of acids, bases and ionic equilibria; periodic properties of s and p block elements, preparation and properties of aliphatic and aromatic hydrocarbons
		CO2	discuss the periodic properties of sand p- block elements, reactions of aliphatic and aromatic hydrocarbons and strength of acids
124C2A		CO3	classify hydrocarbons, types of reactions, acids and bases, examine the properties s and p-block elements, reaction mechanisms of aliphatic and aromatic hydrocarbons
		CO4	explain theories of acids, bases and indicators, buffer action and important compounds of s-blockelements
		CO5	assess the application of hard and soft acids indicators, buffers, compounds of s and pblock elements and hydrocarbons
	OLIAL ITATIVE INODO AND	CO1	acquire knowledge on the systematic analysis of Mixture of salts.
224C31	QUALITATIVE INORGANIC - ANALYSIS -	CO2	identify the cations and anions in the unknown substance.
		CO3	identify the cations and anions in the soil and water and to test the quality of water.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	assess the role of common ion effect and solubility product
		CO1	Explain the kinetic properties of gases by using mathematical concepts. structure determinations.
		CO2	describe the physical properties of liquid and solids; identify various types of crystals with respect to its packing and apply the XRD method for crystal
224C3A	GENERAL CHEMISTRY -III	CO3	investigate the radioactivity, nuclear energy and it's production, also the nuclear waste management.
		CO4	write the nomenclature, physical & chemical properties and basic mechanisms of halo organic compounds and alcohols.
		CO5	investigate the named organic reactions related to phenol; explain the preparation and properties of aromatic alcohol including thiol
		CO1	describe the principles and methodology for the practical work
224C41	PHYSICAL CHEMISTRY PRACTICALS	CO2	explain the procedure, data and methodology for the practical work.
224C41		CO3	apply the principles of electrochemistry, kinetics for carrying out the practical work.
		CO4	demonstrate laboratory skills for safe handling of the equipment and chemicals
	GENERAL CHEMISTRY-IV	CO1	explain the terms and processes in thermodynamics; discuss the various laws of thermodynamics and thermo chemical calculations.
		CO2	discuss the second law of thermodynamics and its application to heat engine; discuss third law and its application on heat capacity measurement.
224C4A		CO3	investigate the chemistry of transition elements with respect to various periodic properties and group wise discussions.
		CO4	discuss the fundamental organic chemistry of ethers, epoxides and carbonyl compounds including named organic reactions.
		CO5	discuss the chemistry and named reactions related to carboxylic acids and their derivatives; discuss chemistry of active methylene compounds, halogen substituted acids
		CO1	Describe the principles and methodology for the practical work.
324C51	GRAVIMETRIC ANALYSIS	CO2	Explain the procedure, data and methodology for the practical work
324031	PRACTICAL	CO3	Apply the principles of phase rule and electrochemistry for carrying out the practical work



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	Demonstrate laboratory skills for safe handling of the equipment and chemicals
		CO1	assign RS notations to chirals and EZ notations to olefins and explain conformations of ethane and butane.
		CO2	explain preparation and properties of aromatic and aliphatic nitro compounds and amines
324C5A	ORGANIC CHEMISTRY – I	CO3	explain colour and constitution of dyes and food additives
		CO4	discuss preparation and properties of five membered heterocycles like pyrrole, furan and thiophene
		CO5	discuss preparation and properties of six membered heterocycles like pyridine, quinoline and isoquinoline
		CO1	explain isomerism, Werner's Theory and stability of chelate complexes
	INORGANIC CHEMISTRY – I	CO2	discuss crystal field theory, magnetic properties and spectral properties of complexes.
324C5B		CO3	explain preparation and properties of metal carbonyls
32463B		CO4	give a comparative account of the characteristics of lanthanoids and actinoids
		CO5	explain properties and uses of inorganic polymers of silicon, sulphur, boron and phosphorous
	PHYSICAL CHEMISTRY –I	CO1	explain Gibbs and Helmholtz free energy functions, partial molar quantities and Ellingham's
		CO2	apply the concepts of chemical kinetics to predict the rate of the reaction and order of the reaction, demonstrate the effect of temperature on reaction rate, and the significance of free energy and entropy of activation.
324C5C		CO3	compare chemical and physical adsorption, Freundlich and Langmuir adsorption isotherms, and differentiate between homogenous and heterogeneous catalysis.
		CO4	demonstrate the types and characteristics of colloids, preparation of sols and emulsions, and determine the molecular weights of macromolecules.
		CO5	utilize the concepts of photochemistry in fluorescence, phosphorescence, chemiluminescence and color perception of vision.
324C6A	ORGANIC CHEMISTRY - II	CO1	explain isolation and properties of alkaloids and terpenes
324C0A	ORGANIC CHEMISTRY - II	CO2	explain preparation and reactions of mono and disachharides



2.6.1 Course Outcome

Year: 2023-2024

1		1	
		CO3	classify biomolecules and natural products based on their structure, properties, reactions and uses.
		CO4	explain molecular rearrangements like benzidine, Hoffmann etc.,
		CO5	preparation and properties of organolithium compounds
		CO1	ability to explain the importance of tracer elements on biological system.
		CO2	explain the metal ion transport, Bohr effect, Na, K, Ca pump.
324C6B	INORGANIC CHEMISTRY – II	CO3	explain the function of Vitamin B12, Zn-Cu enzyme, ferredoxin, cluster enzymes.
	п	CO4	classification and structure of silicates.
		CO5	explain the manufacture of refractories, explosives, paints and pigments
	PHYSICAL CHEMISTRY-II	CO1	construct the phase diagram for one component and two component systems, explain the properties of freezing mixture, component with congruent melting points and solid solutions
324C6C		CO2	apply the concepts of chemical equilibrium in dissociation of PCl5, N2O4 and formation of HI, NH3, SO3 and decomposition of calcium carbonate. Demonstrate important principles such as Le chatelier principle, van't Hoff reaction isotherm and ClausiusClayperon equation.
		CO3	Identify an appropriate distillation method for the separation of binary liquid mixtures such as azeotropic mixtures, partially miscible mixtures and immiscible liquids.
		CO4	Explain the significance of Arrhenius theory, Debye-Huckel theory, Onsager equation and Kohlrausch's law in conductance.
		CO5	Construct electrochemical cell with the help of electrochemical series and calculate cell EMF. Demonstrate the applications of EMF and significance of potentiometric titrations.
PROGRAMME:			
	PROGRAMME:		B.Sc Mathematics
Subject Code	PROGRAMME : Subject Name	Course Outcom	
Subject Code		Course Outcom	
Subject Code	Subject Name		es
Subject Code  134C1A		CO1	es  Classify and Solve reciprocal equations



### 2.6.1 Course Outcome

Year: 2023-2024

		CO5	Determine relationship between circular and hyperbolic functions and the summation of trigonometric series
		CO1	Find the nth derivative, form equations involving derivatives and apply Leibnitz formula
		CO2	Find the partial derivative and total derivative coefficient
134C1B	DIFFERENTIALCALCULUS	CO3	Determine maxima and minima of functions of two variables and to use the Lagrange's method of undetermined multipliers
		CO4	Find the envelope of a given family of curves
		CO5	Find the evolutes and involutes and to find the radius of curvature using polar co-ordinates
		CO1	Find pole, polar for conics, diameters, conjugate diameters for ellipse and hyperbola
124624	ANALYTICAL GEOMETRY	CO2	Find the polar equations of straight line and circle, equations of chord, tangent and normal and to find the asymptotes of hyperbola
134C2A	(Two & Three Dimensions)	CO3	Explain in detail the system of Planes
		CO4	Explain in detail the system of Straight lines
		CO5	Explain in detail the system of Spheres
		CO1	Determine the integrals of algebraic, trigonometric and logarithmic functions and to find the reduction formulae
		CO2	Evaluate double and triple integrals and problems using change of order of integration
134C2B	INTEGRAL CALCULUS	CO3	Solve multiple integrals and to find the areas of curved surfaces and volumes of solids of revolution
		CO4	Explain beta and gamma functions and to use them in solving problems of integration
		CO5	Explain Geometric and Physical applications of integral calculus
		CO1	Find the derivative of vector and sum of vectors, product of scalar and vector point function and to determine derivatives of scalar and vector products
234C3A	VECTOR CALCULUS AND	CO2	Applications of the operator 'del' and to Explain soleonidal and ir-rotational vectors
234C3A	APPLICATIONS	CO3	Solve simple line integrals
		CO4	Solve surface integrals and volume integrals
		CO5	Verify the theorems of Gauss, Stoke's and Green's (Two Dimension)
234C3B	DIFFERENTIAL EQUATIONS AND	CO1	Determine solutions of homogeneous equations, non-homogeneous equations of degree one in two variables, solve Bernoulli's equations and exact differential equations



### 2.6.1 Course Outcome

Year: 2023-2024

	APPLICATIONS	CO2	Find the solutions of equations of first order but not of higher degree and to determine particular integrals of algebraic, exponential, trigonometric functions and their products
		CO3	Find solutions of simultaneous linear differential equations, linear equations of second order and to find solutions using the method of variations of parameters
		CO4	Form a PDE by eliminating arbitrary constants and arbitrary functions, find complete, singular and general integrals, to solve Lagrange's equations
		CO5	Explain standard forms and Solve Differential equations using Charpit's method
	INDUSTRIAL	CO1	Understand Fomulation of Linear Programming Problem and solving LPP using Graphical and Simplex Method.
	MATHEMATICS –	CO2	Get skilled to solve transportation problem and sequencing problem.
234C4A	RESOURCE	CO3	Understand simulation techniques.
	MANAGEMENT TECHNIQUES	CO4	Construct Shewhart control charts and use variable control charts to monitor process performance.
		CO5	Design and implement acceptance sampling plans for attributes and variables.
		CO1	Explain in detail about sets and functions, equivalence and countability and the LUB axiom
	ELEMENTS OF MATHEMATICAL ANALYSIS	CO2	Explain Sequence and Subsequence of real numbers and to find the limit of sequence to test for convergent, divergent, bounded and monotone sequences
234C4B		CO3	Explain the operations on convergent and divergent sequences and to explain the concepts of limit superior and limit inferior and the notion of Cauchy sequences
		CO4	Classify the series of real numbers and the alternating series and their convergence and divergence, the conditional convergence and absolute convergence and solve problems on convergence of the sequences
		CO5	Explain about the metric spaces and functions continuous on a Metric space
		CO1	Explain groups, subgroups and cyclic groups
334C5A	ABSTRACT ALGEBRA	CO2	Explain about Normal subgroup, Quotient groups, Homomorphisms and Automorphisms and verify the functions for homomorphism and automorphism properties
		CO3	Explain Permutation groups and apply Cayley's theorem to problems
		CO4	Explain Rings, Ideals and Quotient Rings and examine their structure



### 2.6.1 Course Outcome

Year: 2023-2024

		CO5	Discuss about the field of quotient of an integral domain and to Explain in detail about Euclidean Rings
		CO1	Explain the concepts of Continuous and Discontinuous functions, open and close sets, Connectedness, Completeness and Compactness
		CO2	Explain the concepts of bounded and totally bounded sets, continuity of inverse functions and Uniform continuity
334C5B	REAL ANALYSIS	CO3	Define the sets of measure zero, to Explain about the existence and properties of Riemann integral
		CO4	Explain the concept of differentiability and to Explain Rolle's theorem, Law of mean, and Fundamental theorem of calculus
		CO5	Explain the point wise and uniform convergence of sequence of function and to derive the Taylor's theorem
	MATHEMATICAL MODELLING	CO1	Explain simple situations requiring Mathematical Modelling and to Determine the characteristics of such models
		CO2	Model using differential equations in-terms of linear growth and Decay models
334C5C		CO3	Model using systems of ordinary differential equations of first order, to discuss about various models under the categories 'Epidemics' and 'Medicine'
		CO4	Explain in detail about difference equations
		CO5	Model using difference equations
	LINEAR ALGEBRA	CO1	Acquire a detailed knowledge about vector spaces and subspaces
		CO2	Explain the concepts of Linear Dependence, Linear Independence, Bases and Dimension of basis
334C6A		CO3	Explain the concept of Linear Transformations, their Matrix representation and the notion of dual spaces
		CO4	Find the Eigen values and Eigen vectors, to apply the concepts for diagonalisation
		CO5	Explain about Inner product and norms and to apply Gram Schmidt Orthogonalization Process to problems on inner product spaces
334C6B	COMPLEX ANALYSIS	CO1	Explain about analytic functions, their differentiation and continuity and to verify the Harmonic functions using analyticity conditions



### 2.6.1 Course Outcome

Year: 2023-2024

		CO2	Explain the concept of Conformal mappings and mappings by linear transformations and linear fractional transformation
		CO3	Explain about the integrations of functions over simply and multiply connected domains and to derive the Cauchy integral formula, Liouvlle's theorem, Fundamental theorem of Algebra and Maximum Module Principle
		CO4	Find the convergence the sequences and series, to derive Taylor's and Laurent's series
		CO5	Find the nature of singularities, to find the residue of a given function at a given singular point, to Explain about zeros and poles and to evaluate real improper integrals (Excluding poles on the real axis)
	MECHANICS	CO1	Define Resultant, Component of a Force, Coplanar forces, like and unlike parallel forces, Equilibrium of a Particle, Limiting equilibrium of a particle on an inclined plane.
		CO2	Define Moment of a force and Couple with examples. Define Parallel Forces and Forces acting along a Triangle, Solve problems on frictional forces
334C6C		CO3	Define work, energy, power, rectilinear motions under varying forces. Define Simple Harmonic Motion and find its Geometrical representation.
		CO4	Define Projectile, impulse, impact and laws of impact. Prove that the path of a projectile is a parabola. Find the direct and oblique impact of smooth elastic spheres
		CO5	Define central orbits, explain conic as centered orbits and solve problems related to central orbits
	PROGRAMME:		B.Sc Plant Biology & Biotechnology
Subject Code	Subject Name	Course Outcom	es
	PLANT DIVERSITY – I: ALGAE Practical I	CO1	Recall and identify algae using key identification characters.
139C11		CO2	Demonstrate practical skills in preparation of fresh mount and identification of algal forms from algal mixture.
139C11		CO3	Describe the internal structure of algae prescribed in the syllabus.
		CO4	Decipher the algal diversity in fresh/marine water and their economic significance.
		CO5	Evaluate the various techniques used to culture algae for commercial purposes.
139C1A	PLANT DIVERSITY I	CO1	Relate to the structural organization, reproduction and significance of algae.



### 2.6.1 Course Outcome

Year: 2023-2024

	ALGAE	CO2	Demonstrate knowledge in understanding the various life cycle patterns and the fundamental concepts in algal growth
		CO3	Explain the benefits of various algal technologies on the ecosystem
		CO4	Compare and contrast the thallus organization and modes of reproduction in algae.
		CO5	Determine the emerging areas of Algal Biotechnology for identifying commercial potentials of algal products and their uses.
	PLANT DIVERSITY – II:	CO1	Identify microbes, fungi and lichens using key identifying characters
	FUNGI, BACTERIA,	CO2	Develop practical skills for culturing and cultivation of fungi.
139C21	VIRUSES, PLANT	CO3	Identify and select suitable control measures for the common plant diseases.
	PATHOLOGY AND LICHENS –Practical II	CO4	Analyze the characteristics of microbes, fungi and plant pathogens
	LICHENS –Practical II	CO5	Access the useful role of fungi in agriculture and pharmaceutical industry.
		CO1	Recognize the general characteristics of microbes, fungi and lichens and disease symptoms.
	PLANT DIVERSITY – II: FUNGI, BACTERIA, VIRUSES, PLANT PATHOLOGY AND LICHENS	CO2	Develop an understanding of microbes, fungi and lichens and appreciate their adaptive strategies based on structural organization.
139C2A		CO3	Identify the common plant diseases, according to geographical locations and device control measures.
		CO4	Analyze the emerging trends in fungal biotechnology with special reference to agricultural and pharmaceutical applications.
		CO5	Determine the economic importance of microbes, fungi and lichens.
	PLANT DIVERSITY III BRYOPHYTES AND PTERIDOPHYTES - PRACTICAL-III	CO1	Recognize the major groups of Non-vascular and Vascular cryptogams
		CO2	Describe the structure of Bryophytes and Pteridophytes forms prescribed in the syllabus.
239C31		CO3	.Identify and illustrate the morphological and anatomical features of bryophytes and Pteridophytes
		CO4	Develop comprehensive skills in sectioning and micro preparation.
		CO5	Interpret the significance of reproductive structures in Bryophytes and Pteridophytes
	PLANT DIVERSITY-III BRYOPHYTES AND PTERIDOPHYTES	CO1	Recognize morphological variations of Bryophytes and Pteridophytes.
239C3A		CO2	Explain the anatomy and reproduction of Bryophytes and Pteridophytes.
237C3A		СО3	Compare and contrast the variations in the internal cellular organization, gametophyte and sporophyte of Bryophytes and Pteridophytes.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO4	Decipher the stages of plant evolution and their transition to land habitat.
		CO5	Access the useful role of Bryophytes and Pteridophytes.
	PLANT DIVERSITY IV	CO1	Analyze and observe and record the morphological features of selected species of Gymnosperms
239C41	GYMNOSPERMS, PALEOBOTANY AND	CO2	Describe the structure of fossil forms prescribed in the syllabus.
239C41	EVOLUTION - PRACTICAL-	CO3	Identify and Illustrate the morphological and anatomical features of gymnosperms.
	IV	CO4	Develop comprehensive skills in sectioning and micro preparation.
		CO5	Interpret the significance of reproductive structures in gymnosperms.
		CO1	Relate to the general characteristics of Gymnosperms and fossil forms
	PLANT DIVERSITY IV	CO2	Explain about the morphology and anatomy Gymnosperms.
239C4A	GYMNOSPERMS,	CO3	Compare and contrast the reproductive structures of Gymnosperms & fossil forms.
23704A	PALEOBOTANY AND EVOLUTION	CO4	Analyze the anatomy and reproduction Gymnosperms along with their ecological and economic importance.
		CO5	Determine the various fossilization methods and their significance in pale botany.
		CO1	Recognize the distinguishing plant morphological characters.
	PLANT MORPHOLOGY, TAXONOMY AND ECONOMIC BOTANY- PRACTICAL-V	CO2	Identify locally available plants to their respective families.
339C51		CO3	Develop comprehensive skills in field identification, collection of specimens, writing technical description, botanical drawings and herbaria preparation
		CO4	Construct floral diagram and write floral formula for a given flower.
		CO5	Validate the plant specimen by analyzing and dissecting the vegetative and floral characters.
	PRACTICAL-VI Plant	CO1	Identify the structure of cell organelles and stages of cell division.
		CO2	Classify the types of stomata and ovules.
339C52	Anatomy and Embryology,	CO3	Classify the types of stomata and ovules.
337032	Cell Biology, Genetics and	CO4	Perform free hand sectioning of plant materials and decipher the internal tissue organization
	Plant Breeding	CO5	Interpret the given genetic data to develop genetic map based on the principles of Mendelian inheritance and gene interaction
	PLANT MORPHOLOGY,	CO1	Define the concepts in plant morphology and rules of IUCN in botanical nomenclature.
339C5A	TAXONOMY AND ECONOMIC BOTANY	CO2	Classify systems of plant classification and recognize the importance of herbarium and virtual herbarium.



### 2.6.1 Course Outcome

Year: 2023-2024

		CO3	Describe the core concepts of economic Botany and relate its applications in human life.
		CO4	Analyze the characters of the families according to the Bentham and Hooker's system of classification.
		CO5	Assess terms and concepts related to Phylogenetic Systematics.
		CO1	Relate to the fundamental concepts of plant anatomy and embryology.
		CO2	Describe the internal tissue organization of various plant organs.
339C5B	PLANT ANATOMY AND	CO3	Elucidat the stages of normal and abnormal secondary growth.
339C3B	EMBRYOLOGY	CO4	Compare the structural organization of flower in relation to the process of pollination and fertilization.
		CO5	Access the various anatomical adaptations in plants.
		CO1	Enumerate the structure and functions of cells, cellular structures and organelles.
	CELL BIOLOGY CENETICS	CO2	Explain about cell cycle, cell division and laws of inheritance with suitable examples.
339C5C	CELL BIOLOGY, GENETICS AND PLANT BREEDING	CO3	Elucidate concepts of sex determination and sex linked inheritance.
		CO4	Analyze the importance of genes interactions at population and evolutionary levels.
		CO5	Develop conceptual understanding of plant genetic resources, plant breeding,
		CO1	Relate to the distribution and adaptions of plants pertaining to their habitat
	Plant Ecology,	CO2	Demonstrate skills in green planning and callus culture.
339C61	Phytogeography, Plant Biotechnology and Molecular Biology, Plant Physiology and Plant Biochemistry	CO3	Elucidate the basic principles involved in the plant physiology and biochemistry experiments.
		CO4	Appreciate the structure and functions of DNA and RNA.
		CO5	Estimate the biochemical components and determine the factors controlling photosynthesis and transpiration of plants.
		CO1	Relate to the significance of the biotic and abiotic components of the ecosystems and energy flow.
	PLANT ECOLOGY AND PHYTOGEOGRAPHY	CO2	Summarize the phyto geographical division of India.
339C6A		CO3	Explain the implication of pollution on the environment
337C0A		CO4	Analyze the implications of functional and behavioral ecology in natural and man-made areas, biodiversity and conservation.
		CO5	Develop mitigations for the effective conservation of biodiversity
339C6B	PLANT BIOTECHNOLOGY	CO1	Recognize the fundamentals concepts of plant biotechnology and genetic engineering.



#### 2.6.1 Course Outcome

Year: 2023-2024

#### 2.6. Students Performance and Learning Outcome

	AND MOLECULAR BIOLOGY	CO2	Explain various steps in transcription, protein synthesis and protein modification.
		CO3	Elucidate gene cloning and evaluate different methods of gene transfer.
		CO4	Analyze the major concerns and applications of transgenic technology.
		CO5	Develop their competency on different types of plant tissue culture.
	PLANT PHYSIOLOGY AND PLANT BIOCHEMISTRY	CO1	Relate to water relation of plants with respect to various physiological phenomenon.
		CO2	Explain the process and significance of photosynthesis and respiration
339C6C		CO3	Elucidate properties of nutrients and their deficiency symptoms in plants.
339000		CO4	Analyze the biological role of plant growth regulators, carbohydrates, proteins, lipids, nucleic acids and enzymes
			Decipher the phenomenon of seed dormancy and germination in plants.

PRINCIPAL Principal THIRUTHANGAL NADAR COLLEGE SELAVAYAL, CHENNAI-600 051.