



AMBEDKAR COLLEGE OF ARTS & SCIENCE, WANDOOR

(Aided by Govt. of Kerala & Affiliated to University of Calicut)

Wandoor (PO), Pin 679328, Ph: 04931-249666

acaswandoor@gmail.com, Website: www.ambedkarcollegewdr.in

COURSE OUTCOME

DEPARTMENT OF ARABIC

COURSE OUTCOMES

COMMON COURSE

(ARABIC)

BA/BSc



PRINCIPAL

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WANDOOR, MALAPPURAM, DT**



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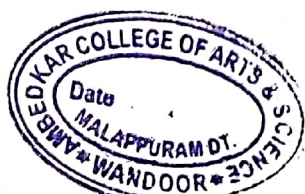
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Semester	I
Course Code	ARB 1A 07(1)
CourseName	LANGUAGE SKILLS IN ARABIC
Course Category	Common Course (Arabic)
No.of Credits	4
Hours/Week	4
Total Marks (Internal & External)	100
Regulation	2019 Onwards

Code	CO Statement
CO1	Remember the general expression and usage in Arabic communication
CO2	Understand the style, methods and usage of correspondence in Arabic
CO3	Familiarize the early works of Arabic poetry, the general characteristics of poems, and basic information about poets.
CO4	Enhance proficiency in analyzing Arabic Literary Texts and assimilate vocabularies
CO5	Apply the use of Arabic Language in various situations and occasions

Semester	II
Course Code	ARB 2 A 08(1)
CourseName	APPRECIATING ARABIC LITERATURE
Course Category	Common Course (Arabic)
No.of Credits	4
Hours/Week	4
Total Marks (Internal & External)	100
Regulation	2019 onwards

Code	Statement
CO1	Understanding of the general expressions and usage in Arabic communication
CO2	Formulate a general understanding of the evolution of prose literature
CO3	Familiarize the modern works of Arabic poetry, the general characteristics of poems, and basic information about poets.
CO4	Apply the use of Arabic Language in Various situations and occasion
CO5	Create a dialogues and elementary sentence patterns in Arabic



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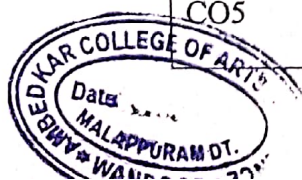
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Semester	III
Course Code	ARB 3A 09
Course Name	READING ARABIC PROSE AND POETRY
Course Category	Common Course (Arabic)
No.of Credits	4
Hours/Week	5
Total Marks (Internal & External)	100
Regulation	2019 Onwards

Code	Statement
CO1	Familiarize the classical Literature of Arabic like Quraan and Hadees,
CO2	Gain a General understanding of the literary genres of drama, screenplay, autobiography
CO3	To analyse the community enhances cohesion and cooperation
CO4	Familiarize with literary forms such as autobiography, biography and other similar genres.
CO5	To understand modern Arabic poetry like free verse and neo classical poetry

Semester	IV
Course Code	ARB 4A 10
Course Title	ARABIC LITERATURE AND CULTURE
Course Category	Common Course (Arabic)
No.of Credits	4
Hours/Week	5
Total Marks (Internal & External)	100
Regulation	2019 Onwards

Code	Statement
CO1	To enjoy the Arabic language through stories
CO2	To acquire vocabularies of Arabic language from Stories and Novel
CO3	Evaluate the Indian Culture through Monumentories.
CO4	Analyse the International culture.
CO5	Develop a general understanding of the Arabic travel literature genre.



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COURSE OUTCOMES

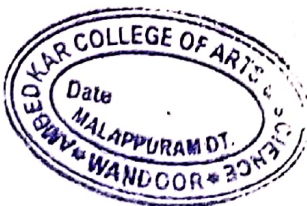
COMMON COURSE

(ARABIC)

BCom

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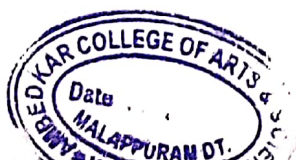
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Semester	1
Course Code	ARB 1A07(2)
Course Title	COMMUNICATIVE ARABIC
Course Category	Common Course (Arabic)
No. of Credits	4
Hours/Weeks	5
Total Marks (internal & External)	100
Regulation	2019 Onwards

Code	Statement
CO1	Commerce students familiarize themselves with Arabic literature and become interested in it.
CO2	To acquire the vocabularies of Arabic language
CO3	To enjoy the Arabic language through stories and poems.
CO4	To practice the use of Arabic language in various situations and occasion
CO5	To increase the translation skill

Semester	II
Course Code	ARB 2 A08(2)
Course Title	READING ARABIC LITERATURE
Course Category	Common Course (Arabic)
No. of Credits	4
Hours/Weeks	5
Total Marks (Internal & external)	100
Regulation	2019 onwards

Code	Statement
CO1	Commerce students familiarize themselves with various forms of Arabic literature
CO2	Formulate a general understanding of Arabic poetry and literature.
CO3	Familiarize with classical literature like Quran and Hadees
CO4	To identify various forms of communications
CO5	To increase the translation skill



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DEPARTMENT OF COMMERCE

VISION

“Empower young minds from deprived and minority communities by fostering sustainable commercial practices and ethical business principles to address global challenges.”

MISSION

- Provide high quality education to deprived and minority communities through comprehensive commerce curricula tailored to their needs and contexts.
- Foster ethical leadership and social responsibility by incorporating modules on business ethics, corporate social responsibility, and traditional values into all coursework and extracurricular activities
- Integrate traditional values and cultural heritage into the learning experience, ensuring that students appreciate and understand how these values can positively influence modern business through and sustainable practices.
- Establish partnerships with local communities and organizations to create mentorship programs, internships, and real-world projects that provide students with practical experience and community involvement opportunities.



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PROGRAM EDUCATIONAL OUTCOMES (PEOS):

PEO 1: Development of Leadership Qualities.

Graduates will demonstrate leadership qualities by utilizing their full intellectual potential, engaging with their communities, and contributing to the social, cultural, and economic development of society.

PEO 2: Lifelong Learning and Societal Contribution.

Graduates will be equipped with core values and intellectual capabilities, enabling them to pursue lifelong learning and meaningfully contribute to societal well-being through

innovative thinking and service.

PEO 3: Entrepreneurial and Global Competence.

Graduates will possess entrepreneurial skills and a global perspective, promoting sustainable national growth through ethical leadership, innovative ventures, and responsible citizenship.

PROGRAMME OUTCOMES (POS):

At the end of the graduate programme, a student would:

PO1 - Knowledge Acquisition:

Gain deep understanding of trends and their impact on the chosen field.

PO2 - Communication & Leadership:

Cultivate teamwork, effective communication, and transformative leadership with a focus on inclusivity.

PO3 - Professional Skills:

Develop adaptability and confidence to navigate diverse career paths.

PO4 - Digital Intelligence:

Master digital tools and technologies to efficiently process and analyse information.

PO5 – Scientific awareness & Critical Thinking:



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PO6 - Ethics & Social Responsibility:

Lead with integrity, upholding ethical values and a commitment to societal and environmental well-being.

PO7 – Research, Innovation & Entrepreneurship:

Drive innovation through research and collaborations with academia, industry, and communities.

PO8 - Lifelong Learning:

Embrace ongoing personal and professional growth by staying current with new knowledge and technologies.

PO9 - Global Perspective:

Understand and engage with global cultural, social, and economic contexts for positive contributions.

PO10 – Democratic Co-existence:

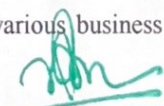
Prepare individuals to work harmoniously in a pluralistic society, nurturing democratic values and interpersonal understanding.

PROGRAMME SPECIFIC OUTCOMES

At the end of the B.Com. program programme, a student would:

- ❖ **Business Knowledge, Technological Proficiency and Lifelong Learning:**
Understand and apply fundamental concepts of accounting, management and business principles and Utilize modern technology and information systems in business operations and decision-making processes.
- ❖ **Analytical Skills and Ethical Understanding for Global Perspective and Entrepreneurial thinking:** Develop the ability to analyse financial data and use quantitative methods for decision-making and recognize & apply ethical principles in business practices and to Foster an entrepreneurial mind set.
- ❖ **Communication Skills, Teamwork and Collaboration :** Exhibit effective oral and written communication skills tailored to various business contexts




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and Work effectively in teams, contributing to group objectives and fostering a collaborative environment.



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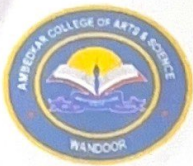
CO1	Comprehend the interaction between business and economic environment and Learn to apply economic concepts to managerial decision making.
CO2	Analyze market structure and competitive strategy
CO3	Conduct market research and forecasting and to develop critical thinking and problem solving skills.
CO4	Apply economic concepts to real world business scenarios and to communicate economic ideas effectively to stake holders,
CO5	Develop logical and analytical approach to decision making and foster a global perspective on economic issues.

Semester	II
Course Code	BCM2B02
Course Name	FINANCIAL ACCOUNTING
Course Category	Core
No.of Credits	4
Hours/Week	6
Total Marks	100

Code	Statement
CO1	Build a strong foundation on theories, principles, practices and regulatory framework of accounting.
CO2	Prepare and analyze financial statements, including the income statement and balance sheet.
CO3	Effectively communicate and present accounting data, issues, plans and decisions.
CO4	Demonstrate analytical and critical thinking required for the preparation of final accounts and business decision-making.
CO5	Cultivate ethical awareness in financial reporting.



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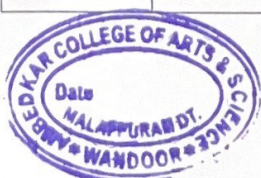
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Semester	I
Course Code	BCM1B01
CourseName	BUSINESS MANAGEMENT
Course Category	Core
No .of Credits	4
Hours/Week	6
Total Marks (Internal & External)	100
Regulation	2019 Onwards

CO	Statement
CO1	Gain a comprehensive understanding of the fundamental principles and theories of management.
CO2	Apply management concepts to real-world business situations and cases
CO3	Demonstrate proficiency in using relevant management tools and techniques for decision-making and problem-solving.
CO4	Recognize and address ethical challenges in management and also understand the social responsibilities of organizations and managers
CO5	The ability to adapt to changing business environments and commit to ongoing professional development.

Semester	I
Course Code	BCM1C01
CourseName	MANAGERIAL ECONOMICS
Course Category	Complementary
No.of Credits	4
Hours/Week	5
Total Marks (Internal & External)	100
Regulation	2019 onwards

CO	Statement
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Semester	II
Course Code	BCM2C02
Course Title	MARKETING MANAGEMENT
Course Category	Complementary
No.of Credits	4
Hours/Week	5
Total Marks	100

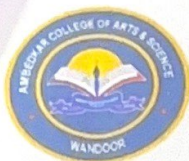
Code	Statement
CO1	Develop basic knowledge about the concepts, principles, tools and techniques of marketing.
CO2	Analyze consumer behavior and decision making processes to identify market opportunities and develop effective marketing strategies.
CO3	Apply marketing frameworks and models to analyze the competitive landscape and develop positioning strategies.
CO4	Communicate marketing concepts, strategies, and recommendations effectively through written reports and oral presentations.
CO5	Create innovative marketing solution.

Semester	III
Course Code	BCM3A11
Course Title	BASIC NUMERICAL METHODS
Course Category	Common
No.of Credits	4
Hours/Week	5
Total Marks	100



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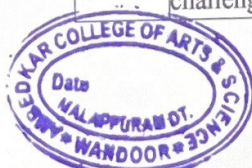
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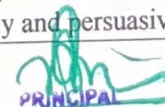
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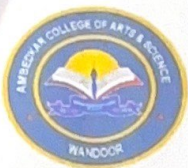
Code	Statement
CO1	Demonstrate a solid understanding of fundamental mathematical and statistical concepts and process.
CO2	Collect, organize, and present data effectively using appropriate statistical tools and visualization techniques.
CO3	Develop critical thinking and problem-solving skills to apply mathematical and statistical methods to real-world business challenges.
CO4	Students will apply basic numerical skills in practical scenarios, such as shopping, cooking, and financial planning.
CO5	Students will enhance their critical thinking skills by analyzing numerical information and making informed decisions based on quantitative data.

Semester	III
Course Code	BCM3A12
Course Title	PROFESSIONAL BUSINESS SKILL
Course Category	Common
No. of Credits	4
Hours/Week	5
Total Marks	100

Code	Statement
CO1	Develop effective written and verbal communication skills essential for business contexts and enhance problem-solving abilities through analysis and evaluation of business scenarios.
CO2	Foster skills in working effectively within diverse teams, demonstrating leadership and understand ethical standards in business practices and the importance of corporate social responsibility.
CO3	Apply theoretical knowledge to real-world business situations, including case studies and projects and cultivate skills in managing time efficiently to balance multiple priorities in a professional setting.
CO4	Gain proficiency in using business-related software and tools, including spreadsheets, presentation software, and communication platforms and learn techniques for building professional relationships and networking effectively in the business environment
CO5	Develop resilience and flexibility to navigate changing business landscapes and challenges and master the art of presenting ideas clearly and persuasively to various




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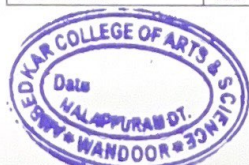
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audiences.

Semester	III
Course Code	BCM3B03
Course Title	BUSINESS REGULATION
Category of the Course	Core
No. of Credits	4
Hours/Week	6
Total Marks	100

Code	Statement
CO1	Develop a comprehensive understanding of the legal framework governing business activities, including statutes, regulations.
CO2	Analyze the impact of legal and regulatory environments on business operations, strategy, and decision-making.
CO3	Evaluate the legal implications of business contracts, including formation, interpretation, and enforcement.
CO4	Students will enhance their ability to communicate regulatory issues and compliance strategies effectively to stakeholders, including management, employees, and regulatory bodies.
CO5	Students will develop critical thinking skills necessary for evaluating complex regulatory environments and making informed decisions in business contexts.

Semester	III
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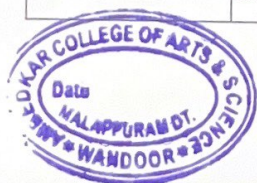
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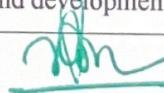
Course Code	BCM3B04
Course Title	CORPORATE ACCOUNTING
Category of the Course	Core
No. of Credits	4
Hours/Week	6
Total Marks	100

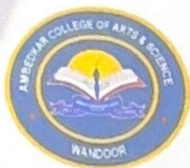
Code	Statement
CO1	Provide an in-depth knowledge in theories, principles, practices and regulatory framework of corporate accounting.
CO2	Applying the learned knowledge about accounting of shares, debentures, preparation of final accounts of companies and its consolidation.
CO3	Exhibit the skill to carry out the functions of business, solve problems and help in managerial decision making using the acquired knowledge in corporate accounting.
CO4	Efficiently illustrate accounting data to communicate effectively with all stakeholders.
CO5	Demonstrate analytical and critical thinking required for the preparation of final accounts of companies for corporate decision-making.

Semester	III
Course Code	BCM3C03
Course Title	HUMAN RESOURCES MANAGEMENT
Category	Complementary
No. of Credits	4
Hours/Week	5
Total Marks	100

Code	Statement
CO1	Understanding the role and significance of HRM in organizational success.
CO2	Exploring strategies for employee retention and engagement.
CO3	Mastering compensation and benefits administration.
CO4	Applying HRM principles to real-world organizational scenarios through case studies and projects.
CO5	Students will learn to utilize HR metrics and analytics to make informed decisions regarding workforce management and development.




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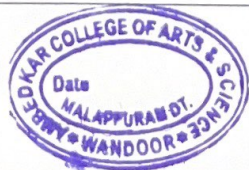
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Semester	IV
Course Code	BCM4A13
Course Name	ENTREPRENEURIAL DEVELOPMENT
Course Category	Common
Contact Hours	5
Credit	4
Regulation	R-2019

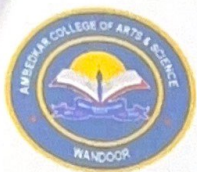
CO	CO Statement
CO1	To understand the basic concepts of entrepreneurship
CO2	To learn the governmental support for entrepreneurs
CO3	To study the importance of MSMEs and supports available.
CO4	To give a glimpse of establishment and running of a business unit
CO5	To give an idea of preparing a project report.

Semester	IV
Course Code	BCM4A14
Course Name	BANKING AND INSURANCE
Course Category	Common
Contact Hours	5
Credit	4
Regulation	R-2019



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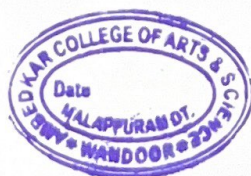
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CO	CO Statement
CO1	To provide a picture of the functions of banks and RBI
CO2	To understand the features of negotiable instruments and its formalities
CO3	To impart knowledge on modern banking facilities
CO4	To give a general idea of insurance business in India
CO5	To understand Life Insurance business in India and the role of IRDA

Semester	IV
Course Code	BCM4B05
Course Name	COST ACCOUNTING
Course Category	Core
Contact Hours	6
Credit	4
Regulation	R-2019

CO	CO Statement
CO1	Intended to impart basic knowledge of cost accounting and the terms associated with it.
CO2	To understand measures for materials control by Management.
CO3	To familiarize with the Labour and overhead cost control measures by Management
CO4	To learn the various methods of costing
CO5	To give an overview of budgeting and standard costing tools and techniques.



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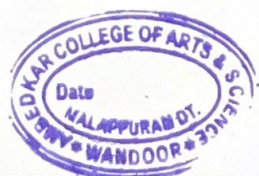
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Semester	IV
Course Code	BCM4B06
Course Name	CORPORATE REGULATIONS
Course Category	Core
Contact Hours	4
Credit	4
Regulation	R-2019

CO	CO Statement
CO1	To study the Indian Companies Act 2013 and various provisions contained in it.
CO2	To learn the legal formalities in the formation of a company.
CO3	To know the clauses related to Shares and its transfer.
CO4	To seek the rights, duties and powers of directors and corporate governance.
CO5	To Understand the methods of winding up of a company

Semester	IV
Course Code	BCM4C04
Course Name	QUANTITATIVE TECHNIQUES FOR BUSINESS
Contact Hours	5
Course Category	Core
Credit	4
Regulation	R-2019



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CO	CO Statement
CO1	To provide a basic idea of quantitative techniques used in business
CO2	To study the correlation and regression techniques
CO3	To learn probability theories
CO4	To understand theoretical distributions prominently in use
CO5	To learn linear programming methods.

Semester	V
Course Code	BCM5B07
Course Name	ACCOUNTING FOR MANAGEMENT
Course Category	Core
Contact Hours	5
Credit	4
Regulation	R-2019

CO	CO Statement
CO1	To give an overview of Management Accounting
CO2	To study the methods of analysing financial statements
CO3	To learn Ratio analysis
CO4	To learn Fund Flow and Cash Flow analysis
CO5	To understand CVP analysis



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Semester	V
Course Code	BCM5B08
Course Name	BUSINESS RESEARCH METHODS
Course Category	Core
Contact Hours	4
Credit	4
Regulation	R-2019

CO	CO Statement
CO1	To impart a general idea of research and types of research.
CO2	To study the fundamentals of research and measurement of reliability
CO3	To learn scientific data collection process
CO4	To understand scientific data processing techniques and testing of hypothesis
CO5	To study drafting of a research report and matters to be kept in mind.

Semester	V
Course Code	BCM5B09
Course Name	INCOME TAX LAW AND ACCOUNTS
Course Category	Core
Contact Hours	5
Credit	4
Regulation	R-2019



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CO	CO Statement
CO1	To learn taxation system in India, and to learn taxable income, exempted income, agricultural income, calculation of taxable income, residential status etc.
CO2	To learn computation of taxable income under the head Salaries.
CO3	To understand taxation of income under the head House Property.
CO4	To study calculation of taxable profits and gains of business or profession.
CO5	To seek provisions of taxing capital gains and other sources

Semester	V
Course Code	BCM5B10
Course Name	CO-OPERATIVE THEORY AND PRACTICE
Course Category	Core
Contact Hours	4
Credit	4
Regulation	R-2019

CO	CO Statement
CO1	To give a general idea of cooperative movement
CO2	To impart knowledge on cooperative movement and other economic systems
CO3	To learn cooperative education and training
CO4	To understand different types of cooperatives in India
CO5	To learn some of the successful big cooperative business houses



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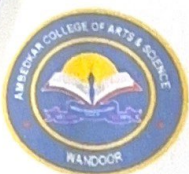
Semester	V
Course Code	BCM5B11
Course Name	LEGAL ENVIRONMENT FOR CO-OPERATIVES
Course Category	Core
Contact Hours	4
Credit	4
Regulation	R-2019

CO	CO Statement
CO1	To make a general study of the cooperative movement in India
CO2	To study the various legislations governing cooperative societies in India
CO3	To study the Kerala Cooperative Societies Act and its provisions
CO4	To understand the administrative set of cooperative department in Kerala
CO5	To study the features of Banking Regulation Act 1949.

Semester	V
Course Code	BCM5D02
Course Name	BASICS OF ENTREPRENEURSHIP AND MANAGEMENT
Course Category	Open
Contact Hours	3
Credit	3
Regulation	R-2019




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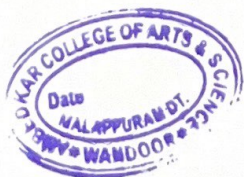
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CO	CO Statement
CO1	To familiarize the students with the basic principles and concepts of business
CO2	To understand concept of entrepreneurship
CO3	To provide the basics of management concepts and principles of management.
CO4	To inculcate a spirit entrepreneurship and develop various entrepreneurial traits
CO5	To study leadership and traits of leadership

Semester	VI
Course Code	BCM6B12
Course Name	INCOME TAX AND GST
Course Category	Core
Contact Hours	6
Credit	4
Regulation	R-2019

CO	CO Statement
CO1	To impart knowledge on the computation of total income and tax liability of individuals
CO2	To make students aware of Income Tax authorities, their powers and functions
CO3	To enable students to differentiate between Direct and Indirect tax and its structure.
CO4	To study the registration procedures, cancellation, payment and e-filing under GST.
CO5	To develop understanding on penalty recovery, audit procedures and power of CAG



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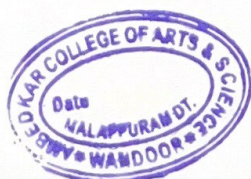
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Semester	VI
Course Code	BCM6B13
Course Name	AUDITING AND CORPORATE GOVERNANCE
Course Category	Core
Contact Hours	5
Credit	4
Regulation	R-2019

CO	CO Statement
CO1	To familiarise the basic principles, techniques and classification of audit.
CO2	To study vouching, verification and valuation of assets and liabilities.
CO3	To learn internal control by way of internal check and internal audit.
CO4	To provide insight on the framework of corporate governance.
CO5	To discuss common governance problems noticed in various corporate failures.

Semester	VI
Course Code	BCM6B14
Course Name	INTERNATIONAL CO-OPERATIVE MOVEMENT
Course Category	Core
Contact Hours	5
Credit	4
Regulation	R-2019




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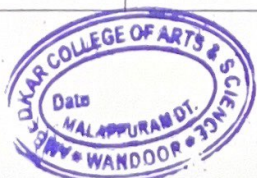
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CO	CO Statement
CO1	To give awareness about evolution of co-operative movement in foreign countries.
CO2	To give a picture of cooperation and to learn the contributions of Experts in the field.
CO3	To study international co-operative alliance and its specialized organisations.
CO4	To learn the role of international organizations in the development of International cooperative movement.
CO5	To make the students aware about the inter-cooperative relations in India.

Semester	VI
Course Code	BCM6B15
Course Name	CO-OPERATIVE MANAGEMENT AND ADMINISTRATION
Course Category	Core
Contact Hours	5
Credit	4
Regulation	R-2019

CO	CO Statement
CO1	To study management and privileges of co-operatives and settlement of disputes
CO2	To learn the role of management in the development of co-operative organizations, features and principles of cooperation
CO3	To study the co-operative leadership, types, problems, theories and case studies.
CO4	To study the statutory Books of accounts and computerized accounting system.
CO5	To study co-operative audit, features, stages, verification and valuation of assets.



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DEPARTMENT OF ECONOMICS

VISION

"Empowering the next generation of leaders from underrepresented and minority communities to champion sustainable economic practices and innovative solutions.

MISSION

Discovering and Developing Economic Talent

To identify and cultivate hidden talents in economics, providing students with opportunities to fully realize their potential and emerge as future leaders in the field.

Intellectual Engagement with Economic Core Values

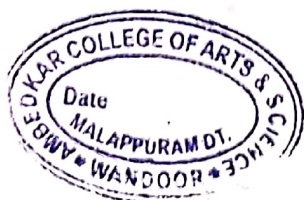
To engage students in developing their intellectual capacities within economics, emphasizing core values that promote ethical and impactful contributions to society.

Equitable Access to Economic Education

To provide equal opportunities for high-quality education in economics, equipping students with the knowledge and skills essential for success in various economic disciplines.

Fostering Economic Entrepreneurship and Global Leadership

To nurture entrepreneurs and global leaders in economics who are guided by strong human values, driving sustainable economic growth and positive societal impact.



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DEPARTMENT OF ECONOMICS

PROGRAMME: BA ECONOMICS

Program Educational Outcomes (PEOs)

PEO 1: Development of Leadership Qualities.

Graduates will demonstrate leadership qualities by utilizing their full intellectual potential, engaging with their communities, and contributing to the social, cultural, and economic development of society.

PEO 2: Lifelong Learning and Societal Contribution.

Graduates will be equipped with core values and intellectual capabilities, enabling them to pursue lifelong learning and meaningfully contribute to societal well-being through innovative thinking and service.

PEO 3: Entrepreneurial and Global Competence.

Graduates will possess entrepreneurial skills and a global perspective, promoting sustainable national growth through ethical leadership, innovative ventures, and responsible citizenship.

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DEPARTMENT OF ECONOMICS

PROGRAMME: BA ECONOMICS

Programme Outcomes (POs)

PO1 - Knowledge Acquisition:

Gain deep understanding of trends and their impact on the chosen field.

PO2 - Communication & Leadership:

Cultivate teamwork, effective communication, and transformative leadership with a focus on inclusivity.

PO3 - Professional Skills:

Develop adaptability and confidence to navigate diverse career paths.

PO4 - Digital Intelligence:

Master digital tools and technologies to efficiently process and analyse information.

PO5 – Scientific awareness & Critical Thinking:

Apply scientific knowledge and critical thinking to solve complex problems and foster sustainable solutions.

PO6 - Ethics & Social Responsibility:

Lead with integrity, upholding ethical values and a commitment to societal and environmental well-being.

PO7 – Research, Innovation & Entrepreneurship:

Drive innovation through research and collaborations with academia, industry, and communities.

PO8 - Lifelong Learning:

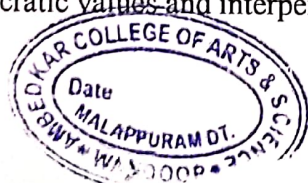
Embrace ongoing personal and professional growth by staying current with new knowledge and technologies.

PO9 - Global Perspective:

Understand and engage with global cultural, social, and economic contexts for positive contributions.

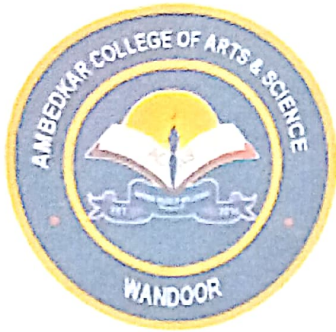
PO10 – Democratic Co-existence:

Prepare individuals to work harmoniously in a pluralistic society, nurturing democratic values and interpersonal understanding.



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DEPARTMENT OF ECONOMICS

PROGRAMME SPECIFIC OUTCOMES (PSO)

BA ECONOMICS

At the end of the BA Economics programme at Calicut University, a student would:

PSO1. Understand basic concepts of economics

PSO2. Examine the socio-economic problems and find out the strategies to overcome these problems through community engagement

PSO3. Achieve organizational, management and leadership skills

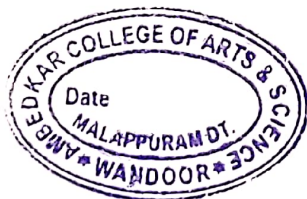
PSO4. Acquire skills to evaluate contemporary socio-economic issues by accessing information from various sources and analyzing the collected information using software

PSO5. Apply analytical thinking to various economic phenomena, including analysis and evaluation of economic policies, practices, evidences, arguments, claims and beliefs

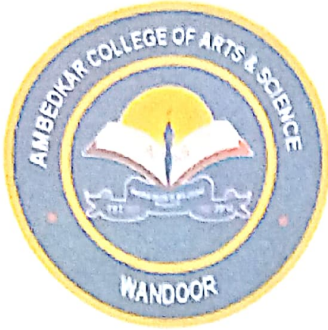
PSO6. Develop appropriate skills and knowledge to address the real world economic issues in familiar and unfamiliar contexts

PSO7. Be able to inculcate ethical values and to avoid unethical practices such as plagiarism, misrepresentation of data and violation of intellectual property rights

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DEPARTMENT OF ECONOMICS

PROGRAMME: MA DEVELOPMENT ECONOMICS

Program Educational Outcomes (PEOs)

PEO 1: Development of Leadership Qualities.

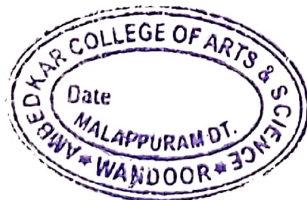
Students will demonstrate leadership qualities by utilizing their full intellectual potential, engaging with their communities, and contributing to the social, cultural, and economic development of society.

PEO 2: Lifelong Learning and Societal Contribution.

Students will be equipped with core values and intellectual capabilities, enabling them to pursue lifelong learning and meaningfully contribute to societal well-being through innovative thinking and service.

PEO 3: Global Competence & Responsible Citizenship

Students will possess a global perspective, promoting sustainable national growth through ethical leadership, innovative ventures, and responsible citizenship.



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DEPARTMENT OF ECONOMICS

PROGRAMME: MA DEVELOPMENT ECONOMICS

Programme Outcomes (POs)

PO1 - Knowledge Acquisition:

Gain deep understanding of trends and their impact on the chosen field.

PO2 - Communication & Leadership:

Cultivate teamwork, effective communication, and transformative leadership with a focus on inclusivity.

PO3 - Professional Skills:

Develop adaptability and confidence to navigate diverse career paths.

PO4 - Digital Intelligence:

Master digital tools and technologies to efficiently process and analyse information.

PO5 – Scientific awareness & Critical Thinking:

Apply scientific knowledge and critical thinking to solve complex problems and foster sustainable solutions.

PO6 - Ethics & Social Responsibility:

Lead with integrity, upholding ethical values and a commitment to societal and environmental well-being.

PO7 – Research & Innovation:

Drive innovation through research and collaborations with academia, industry, and communities.

PO8 - Personal and Professional Growth:

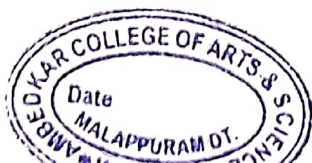
Embrace on going personal and professional growth by staying current with new knowledge and technologies.

PO9 - Global Perspective:

Understand and engage with global cultural, social, and economic contexts for positive contributions.

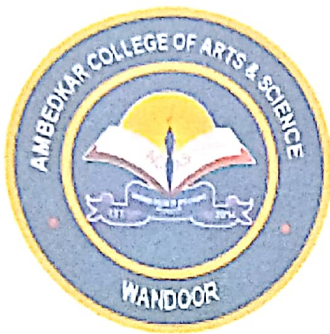
PO10 – Democratic Co-existence:

Prepare individuals to work harmoniously in a pluralistic society, nurturing democratic values and interpersonal understanding.



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PROGRAMME SPECIFIC OUTCOMES (PSO)

MA DEVELOPMENT ECONOMICS

PSO1. Familiarize and understand recent conceptual, theoretical and empirical developments in Development Economics

PSO2. Apply analytical thinking to various economic phenomena, including analysis and evaluation of economic policies, practices, evidences, arguments, claims and beliefs

PSO3. Develop appropriate skills and knowledge to address the real world economic issues in familiar and unfamiliar contexts

PSO4. Formulate appropriate and relevant research questions, develop methodology and tools for data collection, presentation and analysis, and predict cause-effect relationships to deal with problems and situations to be solved through innovative practices

PSO45. Examine the socio-economic problems and find out the strategies to overcome these problems through community engagement


PSO6. Understand diverse needs of the marginalized segments of the society and equip them to engage in endeavours leading to their emancipation

PSO7. Acquire skills to evaluate contemporary socio-economic issues by accessing information from various sources and analyzing the collected information using software

PSO8. Be able to inculcate ethical values and to avoid unethical practices such as plagiarism, misrepresentation of data and violation of intellectual property rights




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PROGRAMME: B.A. ECONOMICS
(2019 Revised Syllabus)
Core Courses (Economics)

Sl. No.	Course Code	Course Title	Course Outcomes
SEMESTER I			
1	ECO1 B01	Micro Economics – I	CO1. To identify the basic principles of micro economic theory. CO2. To explain key micro economic concepts such as supply and demand, elasticity, utility, and market equilibrium. CO3. To apply micro economic principles to analyze everyday decisions and real-life scenarios, recognizing trade-offs, opportunity costs, and incentives. CO4. To analyze how micro economic concepts can be used to understand real-life situations and economic behavior. CO5. To evaluate different micro economic theories and models, including consumer choice theory and production theory, in the context of real-world applications.
SEMESTER II			
1	ECO2 B02	Macro Economics I	CO1. To identify key concepts related to the workings of an economy at the aggregate level. CO2. To explain the need for government intervention in a modern economy and the mechanisms by which it occurs. CO3. To investigate the causes and consequences of economic fluctuations, assessing their impact on employment, output, and inflation. CO4. To evaluate the effectiveness of policy measures in mitigating economic downturns and promoting recovery. CO5. To assess how different economic policies impact social welfare and economic equity, focusing on income distribution and access to resources.

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SEMESTER III			
1	ECO3 B03	Quantitative Methods for Economic Analysis - I	<p>CO1. To understand key quantitative methods and tools used in the study of economics.</p> <p>CO2. To explain the importance of statistical and mathematical techniques for applied economics and empirical research.</p> <p>CO3. To learn and apply key statistical concepts, including probability distributions, descriptive statistics, hypothesis testing, and regression analysis.</p> <p>CO4. To understand and apply basic quantitative methods used in economics, including algebra, calculus, and basic statistical techniques.</p> <p>CO5. To develop proficiency in mathematical techniques such as solving equations, understanding functions, and optimizing functions for economic analysis.</p>
2	ECO3 B04	Micro Economics II	<p>CO1. To understand the concepts and principles of micro economic analysis relevant to decision-making in firms and markets.</p> <p>CO2. To explain how micro economic principles influence the decision-making processes of firms and the functioning of markets.</p> <p>CO3. To utilize micro economic theories to inform decisions regarding pricing, production, and cost management within firms. and apply micro economic principles to real-world decision-making scenarios in firms and markets.</p> <p>CO4. To analyze economic data to identify trends and evaluate the impact of economic variables on firm and market performance.</p> <p>CO5. To integrate micro economic principles with real-world examples to solve practical problems related to market dynamics and competitive strategies.</p>
SEMESTER IV			
1.	ECO4 B05	Quantitative Methods for Economic Analysis II	<p>CO1. To understand the basic statistical techniques and concepts used in economics.</p> <p>CO2. To explain the significance of index numbers and vital statistics in measuring economic variables.</p> <p>CO3. To describe basic probability rules, including the addition and multiplication rules, complement rules,</p>

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			and conditional probability. CO4. To apply statistical and mathematical techniques to analyze economic data and quantify economic variables. CO5. To construct index numbers and evaluate their use in measuring changes in economic variables.
2.	ECO4 B06	Macro Economics II	CO1. To identify key concepts related to the working of an economy at the aggregate level. CO2. To explain the need for government intervention in a modern economy and the mechanisms by which it occurs. CO3. To describe the concepts and measurements of inflation and unemployment. CO4. To interpret key economic indicators, including GDP, national income, and economic performance metrics, to assess the overall health of an economy. CO5. To explore the relationships between key macroeconomic variables such as GDP, inflation, and unemployment, analyzing how changes in one variable can affect others.
SEMESTER V			
1.	ECO5 B07	Fiscal Economics	CO1. To identify key techniques, methods, and principles of economics relevant to fiscal decision-making. CO2. To explain how the principles of economics can be applied to public finance decision-making. CO3. To describe the financial activities of government and the economic issues faced by government agents. CO4. To analyze and interpret financial activities and data related to government budgeting, taxation, and public spending. CO5. To identify and analyze important economic issues faced by government agents, including fiscal deficits, public debt, and economic inequality.
2.	ECO5 B08	Indian Economic Development	CO1. To identify key issues facing the Indian economy at both national and regional levels. CO2. To explain various aspects of the Indian economy, including relevant numerical information and economic policies. CO3. To describe major economic trends and issues

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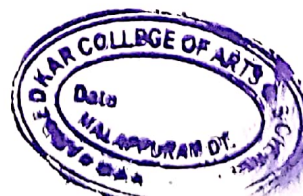
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			<p>affecting India, such as poverty, unemployment, inflation, and inequality.</p> <p>CO4. To develop analytical skills to visualize the economic future of India based on current trends and events.</p> <p>CO5. To examine the key components of the budget, including revenue and expenditure estimates, fiscal deficits, and budgetary allocations.</p>
3.	ECO5 B09	Economics of Capital Market	<p>CO1. To identify key concepts and terminology related to financial markets and capital markets.</p> <p>CO2. To explain the role of financial markets in the economy and the significance of the primary market in issuing new securities.</p> <p>CO3. To value financial instruments and assess investment opportunities using appropriate techniques.</p> <p>CO4. To develop analytical skills necessary for evaluating investment opportunities and understanding market dynamics.</p> <p>CO5. To assess potential career opportunities in the financial sector and the relevance of higher studies in finance.</p>
4.	ECO5 B10	Mathematical Economics	<p>CO1. To identify fundamental concepts of mathematical economics and econometrics.</p> <p>CO2. To explain core mathematical concepts used in economic analysis, including functions, limits, derivatives, and integrals.</p> <p>CO3. To apply mathematical concepts and econometric techniques to build and test economic models.</p> <p>CO4. To analyze economic data using statistical methods to interpret results and draw conclusions.</p> <p>CO5. To evaluate and solve a variety of mathematical economics problems, demonstrating problem-solving capabilities.</p>
5.	ECO5 D01 (Open Course)	Economics in Everyday Life	<p>CO1. To understand fundamental economic principles and key macroeconomic indicators such as GDP, inflation rates, and unemployment figures.</p> <p>CO2. To explain the interaction of supply and demand in various markets and how changes in prices, income, and preferences affect consumer choices.</p>

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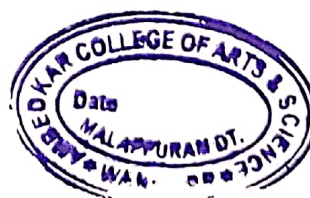
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			<p>CO3. To describe fundamental economic principles and analytical methods to evaluate real-world economic issues, enhancing decision-making based on economic reasoning.</p> <p>CO4. To assess the concept of income elasticity of demand to understand how changes in income levels influence consumer choices.</p> <p>CO5. To evaluate the effects of fiscal policies on the economy, focusing on government budget decisions and their impact on growth and welfare.</p>
6.	ECO5 D02 (Open Course)	Indian Financial System	<p>CO1. To understand and describe the key components of the Indian financial system, including banks, non-banking financial institutions (NBFI), and regulatory bodies.</p> <p>CO2. To explain the roles of banking institutions in the financial system and their impact on economic stability and credit allocation.</p> <p>CO3. To analyze the functions and services provided by non-banking financial institutions (NBFI) and their roles in promoting financial inclusion and stability.</p> <p>CO4. To evaluate the different types of financial markets, including equity, debt, and derivative markets, and analyze their roles in capital formation and risk management.</p> <p>CO5. To assess the overall impact of financial institutions and regulatory bodies on the Indian economy, focusing on their contributions to economic activities and market stability.</p>
SEMESTER VI			
1.	ECO6 B11	Financial Economics	<p>CO1. To identify and describe basic concepts in financial economics and key financial instruments traded in Indian financial markets.</p> <p>CO2. To describe the structure and functioning of the Indian financial system, including key institutions such as banks, NBFCs, and insurance firms.</p> <p>CO3. To develop knowledge of basic models used for asset and derivative valuation, applying these models to benchmark valuations.</p> <p>CO4. To analyze the operations of the Indian Financial System and the activities within financial</p>

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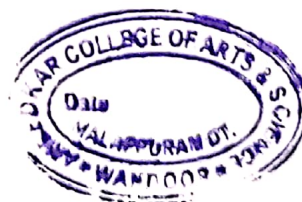
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			markets, assessing their roles in the economy. CO5. To evaluate different financial instruments and their functions within the Indian financial markets.
2.	ECO6 B12	International Economics	CO1. To identify key questions and concepts related to international economic relations. CO2. To explain the major international trade agreements and organizations, including the WTO and regional trade agreements, and their roles in trade facilitation. CO3. To apply trade models to analyze how countries benefit from trade, the effects of trade policies, and the determinants of trade patterns. CO4. To analyze the determinants of exchange rates and assess the impact of currency fluctuations on international trade and investment. CO5. To evaluate international economic issues and make informed decisions regarding trade policies and international relations.
3.	ECO6 B13	Development of Economic Thought	CO1. To identify key theories, ideas, and personalities that have significantly impacted the history of economic thought. CO2. To explain the historical context in which different economic theories developed and how they reflect the times. CO3. To explain knowledge of historical economic theories to evaluate how they differ from modern mainstream economics. CO4. To analyze the historical evolution of economic thought in India from ancient times through the colonial period to contemporary times. CO5. To evaluate the contested nature of economic theories and the implications for current economic thought.
4.	ECO6 B14	Economics of Growth and Development	CO1. To understand the concepts and indicators of economic development, such as GDP growth, HDI, and quality of life. CO2. To explain the theoretical frameworks for growth and development from different schools of economic thought. CO3. To use analytical skills to assess factors influencing long-term economic growth, considering both positive and negative aspects.

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			CO4. To analyze the challenges and issues related to economic development and the implications of various growth models. CO5. To evaluate sustainable development principles, focusing on the balance between economic growth, environmental protection, and social equity.
5.	ECO6 B15	Project work/Research Methodology	CO1. To identify the fundamental techniques and methods used in social research. CO2. To explain the process of economic research and the importance of understanding research methodologies. CO3. To apply knowledge of the research process, including problem identification, data collection, and analysis. CO4. To analyze different methodologies and strategies for conducting social research, assessing their strengths and limitations. CO5. To evaluate research proposals by defining objectives, selecting methodologies, and outlining data collection and analysis plans.

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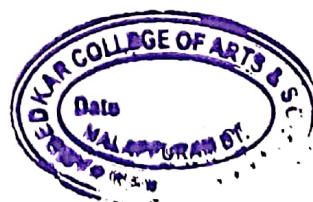




PROGRAMME: B.A. ECONOMICS (2019 Revised Syllabus)
Complementary Courses (Political Science & History)

Sl. No.	Course Code	Course Title	Course Outcomes
SEMESTER I			
1	PUA1(2)CO1	Public Administration: Introduction and Basic Concepts	CO1. To understand and define the basic vocabulary and key concepts of Public Administration. CO2. To explain the major topics and issue areas within the field of Public Administration. CO3. To explain analytical tools and methods to evaluate public administration policies and programs. CO4. To analyze public administration policies and programs to assess their effectiveness and impact. CO5. To evaluate strategic planning and organizational management techniques, and develop effective strategies for public sector organizations.
	POL1(2)CO1	Introduction to Political Science and Governmental Structures and Processes	CO1. To understand the origin, meaning, and importance of political science, as well as the key elements of the state and sovereignty. CO2. To describe the theory of separation of powers and the functions of the three branches of government (legislative, executive, judicial). CO3. To apply knowledge of political concepts to discuss the roles of political parties, interest groups, and pressure groups in the political process. CO4. To analyze the significance of political parties and interest groups in shaping government policies and political behavior. CO5. To evaluate the effectiveness of different types of government systems and their implications for governance and political representation.
SEMESTER II			

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1	HIS1C01	Modern Indian History (1857 to the present): I	<p>CO1. To understand key concepts and events that form the basis of modern India.</p> <p>CO2. To explain the major events and periods in Modern Indian history that contributed to the nation's formation.</p> <p>CO3. To apply knowledge to categorize different schools of thought regarding Modern Indian history.</p> <p>CO4. Analyze the rise of modern India and assess the contributions of social reformers and freedom fighters.</p> <p>CO5. To evaluate the factors that contributed to the rise of modern India and the significance of various reformers and freedom fighters in shaping the nation.</p>
SEMESTER III			
1	HIS2C01	Modern Indian History (1857 to the present): II	<p>CO1. To understand the socio-economic, cultural, and political background of Modern India.</p> <p>CO2. To explain the process of the rise of Modern India and recognize key figures in this transformation.</p> <p>CO3. To apply knowledge of the Indian national movement to discuss its methods, goals, and significant debates.</p> <p>CO4. To analyze the basic structure, values, and significance of the Indian Constitution.</p> <p>CO5. To evaluate the contributions of the Indian national movement to the formation of the modern Indian state and its constitutional framework.</p>
SEMESTER IV			
1.	PUA4(3)CO2	Public Administration: Personnel, Financial and Indian Administration	<p>CO1. To identify key public service values such as personal ethics, professional ethics, citizen responsiveness, and social responsibility.</p> <p>CO2. To explain the importance of public service values in the context of public administration.</p> <p>CO3. To apply various models and theories of administrative decision-making to real-world scenarios.</p> <p>CO4. To compare different models and theories used in administrative decision-making with those of experts in the field.</p> <p>CO5. To evaluate the effectiveness of different decision-making models in public administration and their alignment with public service values.</p>



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2.	POL4(3)CO2	Political Ideas, Concepts and Ideologies	<p>CO1.To Identify the process through which the Constitution of India came into existence and its salient features.</p> <p>CO2. To Understand the philosophical foundations of the Constitution, including Fundamental Rights, Fundamental Duties, and Directive Principles of State Policy.</p> <p>CO3. To describe the structure and functions of the different organs of government in India: Legislature, Executive, and Judiciary.</p> <p>CO4. To analyze the main features of the Indian federal system, focusing on Centre-State relations and the three-tier system of decentralization.</p> <p>CO5. To evaluate the effectiveness of the Indian federal system, including the dynamics of Centre-State relations and the implications of decentralization.</p>
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ROGRAMME: M.A. DEVELOPMENT ECONOMICS

Sl. No	Course Code	Course Title	Course Outcome
SEMESTER I			
1.	DEC1 C01	Microeconomics: Theory and Applications-I	<p>CO1: To identify appropriate economic models (e.g., models of perfectly competitive markets and various market imperfections) and apply them to analyse and predict the behaviour of individuals and firms interacting in markets.</p> <p>CO2: To explain the assumptions underlying standard micro economic models related to individual behavior in the context of scarce resources.</p> <p>CO3: To understand utility maximization and expenditure minimization problems in consumer choice.</p> <p>CO4: Understand the utility maximization and expenditure minimization problems</p> <p>CO5: To derive central results about decision-making and optimum choice (under certainty) for consumers and firms from first principles.</p> <p>CO6: To determine the profit-maximizing price and quantity under perfect and imperfect competition using marginal analysis.</p>
2.	DEC1 C02	Macroeconomics: Theories and Policies I	<p>CO1: To promote understanding of alternative perspectives with respect to macroeconomic theories and policies.</p> <p>CO2: To explain the basic concepts of Keynesian economics and the IS-LM framework, including consumption, investment, and demand for money.</p> <p>CO3: To analyze the importance of regulating the financial system and the challenges of policy making in an open economy.</p> <p>CO4: To enhance the analytical skills of the student towards understanding the developments in the economy.</p> <p>CO5: To evaluate alternative macroeconomic</p>

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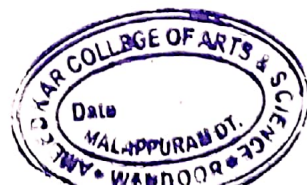
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			theories and their effectiveness in addressing economic issues.
3.	DEC1 C03	Economics of Development and Growth I	CO1: To understand that economic development is a multi-dimensional concept. CO2: To distinguish between the concepts of growth and development. CO3: To identify problems faced by developing countries and suggest suitable policies for tackling them. CO4: To analyze the reasons behind persistence of poverty and inequality in developing countries. CO5: To analyze the performance of Trade liberalization policies and their effects on human deprivation in developing economies. CO6: To apply the micro- and macro-theoretic tools learnt, for analyzing various development issues. CO7: To evaluate the role of institutions in economic growth.
4.	DEC1 C04	Quantitative Methods for Economic Analysis I	CO1: To define and describe different types of functions, matrices, derivatives, and different rates related to finance CO2: To interpret the results obtained by using quantitative tools like matrices and derivatives CO3: To analyse the economic relationships using functions, matrices, and derivatives CO4: To apply functions, matrices, and derivatives for solving real world problems related to economics CO5: To evaluate use of mathematical concrete tools like functions, matrices and derivatives in abstract science like economics.
SEMESTER II			
1.	DEC2 C05	Micro economics: Theory and Applications II	CO1: To build up policy oriented decisions which are highly in the pursuit of public welfare and public choice. CO2: To improves the skill and logical reasoning and decision making power of students. It helps the students for broadening their knowledge and understanding about firms and industries problems and their solutions.

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			<p>CO3: To know the inter relationship between different sectors.</p> <p>CO4: To aware about the need and relevance of social welfare, how social welfare can be improved through the various policy implications and implementations and the alternative ways of ensuring public welfare and various social marginal conditions to achieve public welfare.</p> <p>CO5: To improves the student's capability to look into various dimensions of transaction costs, amongst the bargaining cost and search costs are most important, the need and cost of participating into an exchange or market and the situations of wrong selection of goods due to imperfect information, increased efficiency can assure by increased wage and perks</p>
2.	DEC2 C06	Macroeconomics: Theories and Policies II	<p>CO1: To understand of the anatomy of inflation and unemployment in the short run and long run and to gain an understanding of wage – price stickiness in economies.</p> <p>CO2: To get familiarized with the arguments and propositions of the warring schools of thought in Macroeconomics and the application of monetary and fiscal policy to bring stability and growth.</p> <p>CO3: To understand the linkages between money supply, inflation and BoP for the economy.</p> <p>CO4: To develop a thorough understanding of advanced macroeconomic theories, including the New Keynesian model, Real Business Cycle (RBC) theory, and endogenous growth theory.</p> <p>CO5. To make a critical evaluation of the economic performance of economies and think of alternative policies and ways for fine tuning the economy</p>
3.	DEC2 C07	Economics of Development and Growth II	<p>CO1: To gain a deep understanding of the core concepts related to economic development</p> <p>CO2: To understand the importance of human capital development, education, and healthcare in promoting sustainable economic growth.</p> <p>CO3: To study recent theoretical developments in growth economics, such as the role of technology, human capital, and innovation in driving growth.</p>



			<p>CO4: To explore various theories of economic growth, including the Solow growth model, endogenous growth theory, and the role of innovation in fostering economic development.</p> <p>CO5: To examine different development policies and strategies employed by governments and international organizations, including trade liberalization, foreign aid, and industrialization policies.</p>
4.	DEC2 C08	Quantitative Methods for Economic Analysis II	<p>CO1: To define and describe different concepts of probability, probability distribution, estimation and hypothesis testing</p> <p>CO2: To analyse the implications of the results obtained by using statistical techniques like estimation and hypothesis testing</p> <p>CO3: To apply the knowledge he/she acquired on probability, probability distributions, estimation and hypothesis testing in situations connected to economic problems in the real world</p> <p>CO4: To compare and contrast different interpretations of probability theory and take a stance on which might be preferred</p> <p>CO5: To critically evaluate different interpretations of probability by providing objections to it and consider replies to those objections</p>
SEMESTER III			
1.	DEC3 C09	International Trade	<p>CO1: To understand the basis of international trade and how does international trade contribute for the economic growth and development of different nations.</p> <p>CO2: To understand the various international organizations which promote for economic, political and financial trading relationship and co-operation between countries.</p> <p>CO3: To become familiar with theories and relevant models on international trade.</p> <p>CO4: To analyze modern trade theories such as Heckscher-Ohlin model and understand their implications for international trade.</p> <p>CO5: To explain trading policies, its consequences on the economy and they become capable to analyze</p>



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			and identify which policies are needed for the development of the economy through trade according to the nature of the country.
2.	DEC3 C10	Development Issues of Indian Economy	CO1: To identify sectoral contributions and changes of various sectors to the GDP of Indian economy. CO2: To analyse Kerala model, migration, Kerala finance, decentralization, poverty and unemployment of Kerala economy. CO3: To apply their knowledge on various Indian economic issues to suggest policy measures. CO4: To critically evaluate emergence, performance of planning in India and able to explain the reasons of emergence of NITI Ayog. CO5: To critically evaluate various problems faced by the Indian economy like poverty, inequality, unemployment and inflation.
3.	DEC3 C11	Basic Econometrics	CO1: To develop an understanding of the meaning, nature, scope and methodology of econometrics. CO2: To inculcate the knowledge of simple and multiple regression analysis, ordinary least square method, maximum likelihood method, Gauss-Markov theorem, coefficient of determination and hypothesis testing. CO3: To introduce students to the matrix approach to estimation and derivation of properties of OLS estimators. CO4: To acquaint students with various econometric problems faced with when the assumptions of the classical model were relaxed. CO5: To enhance the understanding of different functional forms of regression models. CO6: To inculcate the knowledge of dummy variable model, specification error, and qualitative response models.
4.	DEC3 E03	International Finance	CO1: To define and describe the working of different monetary system. CO2: To examine the integration of global financial markets and its impact on international financial transactions and investments.

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			CO3: To analyse various investment ventures. CO4: To apply different financial instruments like shares, bonds, derivatives etc for attaining. CO5: To critically evaluate the financial globalization and its impact on international relations.
SEMESTER IV			
1.	DEC4 C12	Political Economy of Development	CO1: To develop an in-depth understanding of the developmental path of economics. CO2: To introduce students to the basics of the core areas of philosophical thinking, the issues and concerns for the development of economics from political economy. CO3: Examine how political institutions, power structures, and economic policies interact to shape development outcomes. CO4: To inculcate the knowledge of developmental stages of economics from political economy. CO5: To acquaint them with important aspects political economy with the help of historical analysis.
2.	DEC4 C13	Public Economics: Theory and Practice	CO1: To develop familiarity with some of the crucial issues in India's fiscal policy. CO2: To understand the history of federalism and role of government in decision making. CO3: To enables them to develop their ability of logical reasoning and critical thinking in constructing arguments regarding public policy CO4: To develop familiarity with some concepts in public expenditure and public revenues system in Governmental activities. CO5: To critically evaluate use of economic policies.
3.	DEC4 E09	Fundamentals of Research Methodology	CO1: To understand the analytical tools and data processing CO2: To develop new scientific tools, concepts and theories to solve and understand scientific and non-scientific problems CO3: To formulate scientific research.



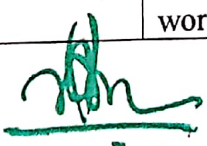
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			CO4: To discover new facts and verify and test important facts. CO5: To analyze an event or process or phenomenon to identify the cause and effect relationship.
4.	DEC4 E14	Urbanization and Development	CO1: To understand the process urbanization, related concepts and theories. CO2: To illustrate about the related issues of urbanization. CO3: To develop a comprehensive understanding of key theories of urbanization, including the process of urban growth, patterns of migration, and factors driving urban expansion. CO4: To analyse the urbanization process in Indian context. CO5: To critically evaluate the urban development policy of India.
	DEC4 P14	Dissertation	CO1. To demonstrate the ability to apply appropriate research methodologies and analytical techniques to investigate complex economic issues, ensuring the validity and reliability of their findings. CO2. To critically evaluate existing literature and theoretical frameworks in economics, synthesizing this knowledge to support their research objectives and hypotheses. CO3. To collect, analyze, and interpret quantitative and qualitative data, using statistical tools and economic models to draw meaningful conclusions relevant to their research questions. CO4. To produce a well-structured dissertation that clearly communicates their research findings, utilizing academic writing standards and effectively presenting complex economic concepts to diverse audiences. CO5. To assess the implications of their research for economic policy and practice, providing well-founded recommendations based on their findings that address real-world economic challenges.


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DEPARTMENT OF PHYSICAL EDUCATION

Vision

Physical education provides academic programs in health, physical education, outdoor recreation and pre-physical therapy. Our vision for the future includes adding a minor in health/wellness promotion, continuing to grow our outdoor adventure and leadership program in coaching, adult fitness, and physical education. We aim to provide exemplary programs in these areas.

Mission

In keeping with the University's mission, the Department of Physical Education and Leadership is dedicated to and focused on the development of the whole student: physical, mental, and intellectual. Programs within the department are interdisciplinary by nature and combine the fields of education and social sciences. The department is dedicated to providing a high quality physical education program and career preparation with the idea of excellent teaching and coaching being the central to our mission. Our students teach in a variety of settings, including colleges, sports arenas, fitness centers, community/public health organizations and outdoor recreation endeavors. We aim to empower the students for developing their healthy habits, we encourage them to fitness literacy and we give a chance to become ultimate participants of physical activity.



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Course Outcome

Semester	V
Course Code	PEN5D03
Course Category	Open
Course Title	PHYSICAL ACTIVITY, HEALTH AND WELLNESS
Contact Hours	3
Credit	3
Regulation	R-2021

CO	Statement
CO1	Understand the concepts of physical education, Health & Wellness.
CO2	Understand the fitness and physical fitness
CO3	Know about science of Yoga and its benefits
CO4	Understand First Aid for sports injuries
CO5	Understand how to control Emotions and manage stress




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DEPARTMENT OF ENGLISH

VISION

Fostering a heterogeneous learning environment, our English language programme endeavours to cultivate critical literacy, linguistic competence and creative expression among students from diverse backgrounds.

MISSION

- To create an inclusive and supportive educational environment where students from diverse communities can develop mastery in English empowering them to pursue academic and professional success.
- To harness the study of English language and literature as a means to appreciate and preserve cultural traditions, empowering students to express and uphold their heritage while engaging with diverse literary works in both local and global contexts.
- To equip students with an advanced English language skills and literary knowledge, enabling them to critically analyze global issues and effectively communicate across cultural boundaries, preparing them to thrive in an interconnected world.
- To empower students to use their skills to contribute to the society in emancipation of humanity and cultural heritage of the country.



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Program Educational Outcomes (PEOs):

PEO 1: Development of Leadership Qualities.

Graduates will demonstrate leadership qualities by utilizing their full intellectual potential, engaging with their communities, and contributing to the social, cultural, and economic development of society.

PEO 2: Lifelong Learning and Societal Contribution.

Graduates will be equipped with core values and intellectual capabilities, enabling them to pursue lifelong learning and meaningfully contribute to societal well-being through innovative thinking and service.

PEO 3: Entrepreneurial and Global Competence.

Graduates will possess entrepreneurial skills and a global perspective, promoting sustainable national growth through ethical leadership, innovative ventures, and responsible citizenship.

Programme Outcomes (POs):

At the end of the graduate programme, a student would:

PO1 - Knowledge Acquisition:

Gain deep understanding of trends and their impact on the chosen field.

PO2 - Communication & Leadership:

Cultivate teamwork, effective communication, and transformative leadership with a focus on inclusivity.

PO3 - Professional Skills:

Develop adaptability and confidence to navigate diverse career paths.

PO4 - Digital Intelligence:

Master digital tools and technologies to efficiently process and analyse information.

PO5 – Scientific awareness & Critical Thinking:

Apply scientific knowledge and critical thinking to solve complex problems and foster sustainable solutions.

PO6 - Ethics & Social Responsibility:

Lead with integrity, upholding ethical values and a commitment to societal and environmental well-being.

PO7 – Research, Innovation & Entrepreneurship:



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Drive innovation through research and collaborations with academia, industry, and communities.

PO8 - Lifelong Learning:

Embrace ongoing personal and professional growth by staying current with new knowledge and technologies.

PO9 - Global Perspective:

Understand and engage with global cultural, social, and economic contexts for positive contributions.

PO10 – Democratic Co-existence:

Prepare individuals to work harmoniously in a pluralistic society, nurturing democratic values and interpersonal understanding.

PROGRAMME SPECIFIC OUTCOMES

At the end of the BA English Language and Literature programme, a student would

- PSO1- Integrated Literary Analysis and Global Contextualization (PO1, PO5, PO9):**
Students will critically analyze literary texts within historical and global contexts, applying scientific and critical thinking to understand their impact on society and culture.
- PSO2- Leadership and Ethical Communication in Diverse Settings (PO2, PO6, PO10):**
Students will excel in ethical communication and inclusive leadership, effectively working in diverse environments and upholding democratic values.
- PSO3- Innovative Research and Digital Proficiency (PO7, PO8, PO4):** Students will conduct innovative research using advanced digital tools, embracing lifelong learning to stay current with trends and technologies in literary studies.



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COURSE OUTCOMES-CORE COURSES

Semester	I
Course Code	ENG1B01
Course Name	Introducing Literature
Course Category	Core
No.of Credits	5
Hours/Week	6
Total Marks (Internal & External)	100
Regulation	2019 Onwards

Code	CO Statement
CO1	Understand the different aspects of the language of literature
CO2	Analyse the linguistic structures of poetic texts
CO3	Distinguish diverse points of view within a single text and locate the rationale of polyphony.
CO4	Interpret the dominant voice/s within the text and its agendas
CO5	Create original literary interpretations that integrate diverse perspectives and marginalised voices, demonstrating proficiency.

Semester	II
Course Code	ENG2B02
Course Name	Appreciating Poetry
Course Category	Core
No.of Credits	5
Hours/Week	6
Total Marks (Internal & External)	100
Regulation	2019 onwards



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Code	Statement
CO1	Recall and describe the basic elements of poetry, the stylistic and rhetorical devices and various genres of poetry.
CO2	Analyse and identify the trends in poetry and the linguistic structures of poetic texts.
CO3	Assess and analyse poetry from diverse perspectives, considering factors such as gender, race, caste, ethnicity, religion, region, environment and nation.
CO4	Classify and categorize different forms of poetry in British and American literature, and identify recurring themes in global poetry throughout literary history.
CO5	Create interpretations of poetry by analysing its emotional and thematic elements and evaluating how it reflects cultural values, personal perspectives, and universal themes.

Semester	III
Course Code	ENG3B03
Course Name	Appreciating Prose
Course Category	Core
No.of Credits	4
Hours/Week	4
Total Marks	100

Code	Statement
CO1	To identify and recall key elements of prose, including plot structure, character development, and literary devices.
CO2	To interpret and appreciate different types of prose
CO3	To recognize various styles of prose writing and apply literary devices effectively.
CO4	To analyse and interpret the critical ideas, values and themes that appear in literary and cultural texts.
CO5	To create and write original prose that integrates learned literary techniques, enabling students to synthesize their understanding of prose elements.




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Semester	IV
Course Code	ENG3B04
Course Title	English Grammar and Usage
Course Category	Core
No.of Credits	4
Hours/Week	5
Total Marks	100



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Code	Statement
CO1	Recall and identify key concepts of English grammar, such as parts of speech, sentence structure, and fundamental language rules.
CO2	Demonstrate an understanding of the sentence patterns in English language
CO3	Apply a comprehensive understanding of English grammar, including idioms, syntax, and semantics, to effectively use and interpret these elements in various contexts
CO4	Analyse and deconstruct sentences to enhance logical and analytical skills in language use.
CO5	Create an analysis of contemporary English usage by examining current language trends, evolving grammar rules, and modern expressions to understand their impact on and reflection of modern communication.

Semester	IV
Course Code	ENG4B05
Course Title	APPRECIATING FICTION
Course Category	Core
No.of Credits	4
Hours/Week	5
Total Marks	100



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Code	Statement
CO1	Identify key elements in long and short fiction
CO2	Understand cultural diversity through various representative samples of fiction
CO3	Critique human condition and complexities in fiction
CO4	Create different types of fiction and analyse them
CO5	Generate imaginative responses, blending critical thinking and cultural perspectives in new interpretations.

Semester	V
Course Code	ENG4B06
Course Title	LITERARY CRITICISM
Course Category	CORE
No.of Credits	4
Hours/Week	4
Total Marks	100

Code	Statement
CO1	To recall and identify key concepts and terminology in literary theory
CO2	To apply critical approaches to critique plays, passages and poems
CO3	Analyse and appreciate important texts and movement in the history of literary criticism
CO4	To analyse the structure, themes and stylistic elements of literary works through the lens of different critical theories.
CO5	To critique the major arguments underlying critical writings.

Semester	V
Course Code	ENG5B07
	Appreciating Drama and theatre



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Course Title	
Course Category	Core
No.of Credits	4
Hours/Week	5
Total Marks	100

Code	Statement
CO1	Recall the elements of drama and historical progress of drama in different continents.
CO2	Understand the different genres and masters of drama
CO3	Analyse the theatrical performances and the texts and evaluate them critically from various standpoints.
CO4	Demonstrate how writers use the resources language as creativity
CO5	Develop an original theatrical project embodying diverse human experiences.

Semester	V
Course Code	ENG5B08
Course Title	Literary Theory
Category of the Course	Core
No.of Credits	4
Hours/Week	5
Total Marks	100



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Code	Statement
CO1	Understand the important texts and movements in the history of literary theory
CO2	Critique literature and culture in the context of theory
CO3	Identify and analyse the critical ideas ,values and themes that appear in literary and cultural texts.
CO4	Evaluate the strengths and limitations of different literary theories ,providing insightful critiques and interpretations.
CO5	Synthesise multiple literary theories to develop an original and innovative theoretical framework for interpreting a specific literary text,showcasing a high level of creativity and critical thinking.

Semester	V
Course Code	ENG5B09
Course Title	Language and Linguistics
Category	Core
No.of Credits	4
Hours/Week	5
Total Marks	100

Code	Statement
CO1	Recognise and recall the key concepts of Linguistics and develop awareness of latest trends in language study .
CO2	Develop a conceptual understanding of the features of language, their sounds, their ways of forming words, their sentence structures and their systems of expressing meaning.
CO3	Apply the acquired knowledge of pronunciation and their general standards in every day conversation and in meaning.
CO4	Analyse the fundamental topics in semantics and develop a concept of different semantic levels
CO5	Generate innovative and effective communication strategies by synthesising knowledge from pronunciation, semantics, syntax ,morphology and linguistics to address specific communicative challenges.



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Semester	V
Course Code	ENG5B10
Course Title	Indian Writing in English
Category	Core
No. of Credits	4
Hours/Week	5
Total Marks	100

Code	Statement
CO1	Recall various phases of the evolution of Indian Writing in English
CO2	Understand the thematic concerns, genres and trends of Indian Writing in English
CO3	Analyse the developments of history of Indian English literature from its beginning to the present day.
CO4	Interpret and evaluate the works of great writers of Indian Writers in English
CO5	Create original pieces of literature through an understanding of significant cultural and societal issues presented in Indian English literature.

Semester	V
Course Code	ENG5D01
Course Title	English for Competitive Examination (Open Course)
No. of Credits	3
Hours/Week	3
Total Marks	75



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Code	Statements
CO1	Identify and recall key grammar rules, vocabulary, and common structures used in competitive examination English sections.
CO2	Apply grammar rules and vocabulary knowledge to solve practice questions and complete sample passages effectively.
CO3	Analyze complex passages and questions to identify underlying themes, key details, and logical relationships, enhancing comprehension and critical thinking.
CO4	Use grammar rules and vocabulary knowledge to accurately solve practice questions and complete sample passages in competitive exams.
CO5	Formulate effective test-taking strategies and personalized study plans, incorporating timed practice and targeted skill exercises, to improve performance in competitive exams.

Semester	VI
Course Code	ENG6B11
Course Title	Voices of Women
Category	Core
No.of Credits	4
Hours/Week	5
Total Marks	100

Code	Statement
CO1	To develop a nuanced understanding of the historical and cultural contexts that have shaped women's voices in literature .
CO2	Critically analyse the issues and concerns of the women writers of the developed, developing and under developed countries .
CO3	Critically analyse the diversity of women's experiences across the world
CO4	Analyse and interpret texts written by women writers across different cultures
CO5	Create an original literary work, visual arts, or multimedia project inspired by the themes and voices of explored through out the course.

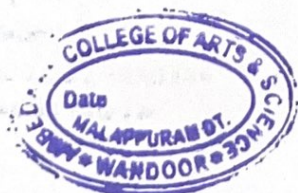


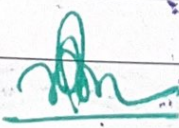

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Semester	VI
Course Code	ENG6B12
Course Title	Classics of World Literature
Category	Core
No.of Credits	4
Hours/Week	5
Total Marks	100

Code	Statement
CO1	Identify the classic literature and thereby composite cultures of the world
CO2	Understand cross cultural perspectives
CO3	Classify literary texts in English or English translation in terms of their main stylistic and thematic features.
CO4	Analyse some of the main theoretical and methodological issues involved in reading world literature .
CO5	Generate original creative writing ,integrating diverse cultural influences and literary traditions.

Semester	VI
Course Code	ENG6B13
Course Title	Film Studies
Category	Core
No.of Credits	4
Hours/Week	5
Total Marks	100




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Code	Statement
CO1	Identify the formal and stylistic elements of film
CO2	Develop an understanding of film language and terminology
CO3	Interpret the significance of film in relation to history, politics, technology, psychology and performance
CO4	Evaluate diverse forms film
CO5	Create original and informed perspectives on film

Semester	VI
Course Code	ENG6B14
Course Title	New Literatures in English
Course Category	Core
No. of Credits	4
Hours/Week	5
Total Marks	100

Code	Statement
CO1	Understand the basic concepts of postcolonial literature
CO2	Analyse the issues of cultural plurality and hybridity
CO3	Apply critical thinking skills to assess literary negotiations of colonization and decolonization, identity, inequality, marginalization and so on.
CO4	Analyse the social, political and cultural implications portrayed in postcolonial literature
CO5	Evaluate the canon of English literature ,common wealth literature ,post colonialism and the context of New Literatures .



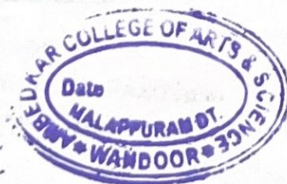
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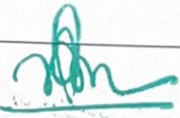
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Semester	VI
Course Code	ENG6B15
Course Title	Literature of the Marginalised
Category	Elective
No.of Credits	3
Hours/Week	3
Total Marks	75

Code	Statement
CO1	Identify the various aspects of marginality such as dalit, female, child and sexual minorities.
CO2	Understand the evolving patterns of generic and other technical possibilities that the marginalise use to represent their predicament
CO3	Critique the process of evolution of marginality and the formation of stereotypes .
CO4	Evaluate the subaltern perspectives reflect in literature
CO5	Develop an understanding of how marginality is often a contextual factor related to the socio-cultural reality.

Semester	VI
Course Code	ENG6B21
Course Title	Project
No.of Credits	2
Hours/Week	2
Total Marks	75




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Code	Statement
CO1	Identify, define and demonstrate research problem
CO2	Demonstrate knowledge of and an ability to conduct research work in the several areas related to language and literature
CO3	Equip students with project management skills, including planning, organisation and execution.
CO4	Assess, critique and evaluate a project work and construct meaningful tools for it
CO5	Create original research projects

COMMON ENGLISH COURSES (Common to all Undergraduate Programmes)

Semester	1
Course Code	ENG1A01
Course Title	Litmosphere: The World of Literature
Course Category	Common Course
No.of Credits	3
Hours/Weeks	4
Total Marks	75
Regulation	2022 Onwards

Code	Statement
CO1	Identify the qualities necessary for personal development
CO2	Understand and apply problem solving skills
CO3	Apply logical and analytical skills in various situations.
CO4	Evaluate the effectiveness of different problem-solving strategies
CO5	Create the ability to express themselves through writing



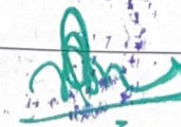
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Semester	I
Course Code	ENG1A02
Course Title	Functional Grammar and Communication in English
Course Category	Common Course
No.of Credits	3
Hours/Weeks	5
Total Marks	75
Regulation	2022 Onwards

Code	Statement
CO1	Identify and understand the key concepts of English Grammar
CO2	Demonstrate the ability to use the syntactic structures within English texts.
CO3	Distinguish logical and analytical skills in the use of language for communication.
CO4	Develop writing skills in various professional and career related situations
CO5	Formulate the basic skills in spoken communication in formal contexts

Semester	II
Course Code	ENG2A03
Course Title	Readings from the Fringes
Course Category	Common
No.of Credits	4
Hours/Weeks	4
Total Marks	100




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Code	Statement
CO1	Recall key themes and elements in poetry and short stories centred around marginalised and secular communities .
CO2	Understand the areas of gender inequality,marginalisation,disability studies ,racism and casteism
CO3	Undersatand the everyday realities of of the marginalised sections of the society and negate the stereotypes surrounding
CO4	Develop scientific temper and scientific thinking
CO5	Develop sensitivity towards environmental concerns and feel responsible towards protecting nature.

Semester	ENG2A04
Course Code	II
Course Title	Readings on Kerala
Category	Common Course
No.of Credits	4
Hours/Weeks	5
Total Marks	100

Code	Statement
CO1	Identify the diversity of literary endeavours and the cultural representations
CO2	Understand the cultural and historical tradition of the society and the development of literary sensibility.
CO3	Identify and apply the insights and values in everyday life
CO4	Critically analyse and interpret the present cultural production
CO5	Create an original cultural production inspired by the insights gained from the readings on kerala



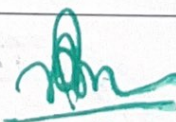
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Semester	III
Course Code	ENG3A05
Course Title	Readings on Indian Literatures
Category	Common Course
No.of Credits	4
Hours/Weeks	5
Total	100

Code	Statement
CO1	Understand how social issues are represented in Indian literature
CO2	Understand the diversity of Indian writings and comprehend its nuances.
CO3	Analyse and appreciate the multiple genres of Indian Writings cutting across different sections of Indian Society.
CO4	Analyse and evaluate the pluralistic aspects of Indian culture and identity.
CO5	Synthesis an innovative literary project which involves creative adaptations, multimedia presentations or collaborative projects.

Semester	IV
Course Code	ENG4A06
Course Title	Songs and Stories of our World
Category	Common Course
No.of Credits	4
Hours/Weeks	5
Total Marks	100




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Code	Statement
CO1	Identify varied classical and marginal literatures
CO2	Understand the literatures from around the world and from different eras
CO3	Analyse the ways in which different cultures perceive the world around them and how they capture these experiences in literature.
CO4	Evaluate diverse perspectives fostering empathy
CO5	Create original insights connecting different literatures and cultures.

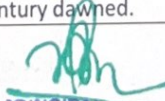
SEMESTER	I
COURSE CODE	HIS 1(2)CO3
COURSE NAME	SOCIAL AND CULTURAL HISTORY OF BRITAIN -I
COURSE CATEGORY	COMPLEMENTARY COURSE
NO OF CREDITS	4
HOURS /WEEK	6
TOTAL MARKS	100
REGULATIONS	2019

CODE	CO STATEMENTS
CO1	Understand the key concepts ancient period of Britain
CO2	Analyse the evolution of medieval politics
CO3	Distinguish the rise of monasteries the impact of black death ,and reformation
CO4	Analyse the rise of towns and its importance
CO5	Create factual knowledge about modern English society.

SEMESTER	IV
COURSE CODE	HIS 4(3)CO3
COURSE NAME	SOCIAL AND CULTURAL HISTORY OF BRITAIN -II
COURSE CATEGORY	COMPLEMENTARY COURSE
NO OF CREDITS	4
HOURS /WEEK	6
TOTAL MARKS	100
REGULATIONS	2019

CODE	CO STATEMENTS
CO1	Understand how Tudor monarchy established their power
CO2	Analyse clash between king and parliament
CO3	Distinguish the return of monarchy and glorious revolution.
CO4	Explain the significance of 7 years war and its impact
CO5	Create factual knowledge about Britains position on world stage as the 20 th century dawned.




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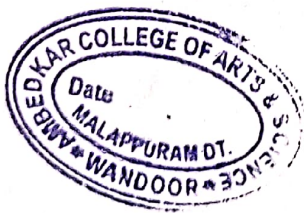


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DEPARTMENT OF MALYALAM

COURSE OUTCOMES
COMMON COURSE 7
(MALAYALAM)

BA/BSc



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Semester	I
Course Code	MAL1A07(1)
Course Name	MALAYALA SAHITHYAM 1
Course Category	Common Course (Malayalam)
No. of Credits	4
Hours/Week	4
Total Marks (Internal & External)	100
Regulation	2019 Onwards

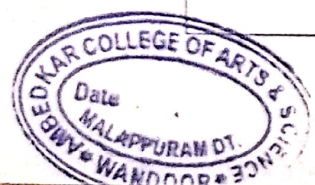
Code	CO Statement
CO1	Familiarize the different eras of Malayalam literary development.
CO2	Gain insight in to the distinctive features of prominent writers styles.
CO3	Understand the early works of Malayalam poetry, the general characteristics of poems, and basic information about poets.
CO4	Familiarize with the distinct and unique literary branch of folk songs, including Nadanpattu, Vadakkanpattu and Mappilappattu.
CO5	Familiarize with the evolution of Malayalam short story literature, its notable authors and their contributions.

Semester	II
Course Code	MAL2A08(1)
Course Name	MALAYALA SAHITHYAM 2
Course Category	Common Course (Malayalam)
No. of Credits	4
Hours/Week	4
Total Marks (Internal & External)	100
Regulation	2019 onwards

Code	Statement
CO1	Formulate a general understanding of the stages of growth, movements and new sensibilities in Malayalam poetry and literature.
CO2	Formulate a general understanding of the evolution of prose literature and critical literature.
CO3	Familiarize with the Romantic and Realistic movements in Malayalam poetry. Develop a general understanding of the common characteristic of poems and the major works of each poet.
CO4	Understand the changes in theme adoption and presentation in Malayalam poetry from its modern era to the present day.
CO5	Familiarize with the forms and movements of literary criticism in Malayalam literature.

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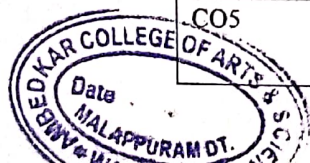
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Semester	III
Course Code	MAL3A09
Course Name	MALAYALA SAHITHYAM 3
Course Category	Common Course (Malayalam)
No.of Credits	4
Hours/Week	5
Total Marks (Internal & External)	100
Regulation	2019 Onwards

Code	Statement
CO1	Gain a General understanding of the literary genres of drama, screenplay, autobiography and travel literature.
CO2	Gain a general knowledge of drama and the history of dramatic literature.
CO3	Gain a general understanding of cinema art and familiarize with the literary genre of screenplay.
CO4	Familiarize with literary forms such as autobiography, biography and other similar genres.
CO5	Develop a general understanding of the Malayalam travel literature genre.

Semester	IV
Course Code	MAL4A10
Course Title	MALAYALA SAHITHYAM 4
Course Category	Common Course (Malayalam)
No.of Credits	4
Hours/Week	5
Total Marks (Internal & External)	100
Regulation	2019 Onwards

Code	Statement
CO1	Familiarize with the novel as a literary form, along with language, writing, translation and cultural studies.
CO2	Practice communication skills, essay writing based on general topics, learn to correct errors in sentences and summarize without losing essence.
CO3	Develop a general understanding of translation including definitions, principles, methods, transcription and cultural dimensions.
CO4	Develop a general understanding of Kerala's cultural history.
CO5	Familiarize with the novel as a literary form. Understand the various stages and development of Malayalam novel literature.



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COURSE OUTCOMES
COMMON COURSE 7
(MALAYALAM)

BCom



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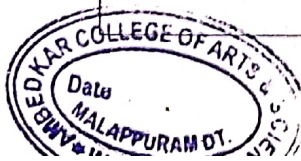
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Semester	1
Course Code	MALA07(2)
Course Title	MALAYALA SAHITHYA PADANAM 1
Course Category	Common Course (Malayalam)
No.of Credits	4
Hours/Weeks	5
Total Marks (internal & External)	100
Regulation	2019 Onwards

Code	Statement
CO1	Commerce students familiarize themselves with Malayalam literature and become interested in it.
CO2	Familiarize with the Criticism literary genre and understand the prominent literary critics in Malayalam and their unique writing styles.
CO3	Familiarize with the evolution of Malayalam short story literature, its notable authors and their contributions.
CO4	Familiarize with the novel as a literary form. Understand the various stages and development of Malayalam novel literature.
CO5	Develop a general understanding of the Malayalam travel literature genre.

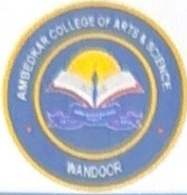
Semester	II
Course Code	MAL2A08(2)
Course Title	MALAYALA SAHITHYA PADANAM 2
Course Category	Common Course (Malayalam)
No.of Credits	4
Hours/Weeks	5
Total Marks (Internal & external)	100
Regulation	2019 onwards

Code	Statement
CO1	Commerce students familiarize themselves with various forms of Malayalam literature
CO2	Formulate a general understanding of the stages of growth, movements and new sensibilities in Malayalam poetry and literature.
CO3	Familiarize with various writing styles in Malayalam short story literature.
CO4	Gain a general knowledge of drama and the history of dramatic literature.
CO5	Familiarize with literary forms such as autobiography, biography and other similar genres.



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Run By Indiraji Memorial Society

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**COURSE OUTCOME
DEPARATMENT OF MATHEMATICS
2020 SYLLABUS**



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DEPARTMENT OF MATHEMATICS

Program Educational Outcomes (PEOs):

PEO 1: Development of Leadership Qualities.

Graduates will demonstrate leadership qualities by utilizing their full intellectual potential, engaging with their communities, and contributing to the social, cultural, and economic development of society.

PEO 2: Lifelong Learning and Societal Contribution.

Graduates will be equipped with core values and intellectual capabilities, enabling them to pursue lifelong learning and meaningfully contribute to societal well-being through innovative thinking and service.

PEO 3: Entrepreneurial and Global Competence.

Graduates will possess entrepreneurial skills and a global perspective, promoting sustainable national growth through ethical leadership, innovative ventures, and responsible citizenship.

Programme Outcomes (POs):

PO1 - Knowledge Acquisition:

Gain deep understanding of trends and their impact on the chosen field.

PO2 - Communication & Leadership:

Cultivate teamwork, effective communication, and transformative leadership with a focus on inclusivity.

PO3 - Professional Skills:

Develop adaptability and confidence to navigate diverse career paths.

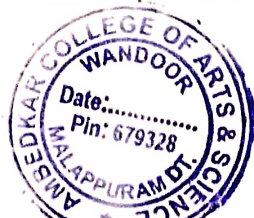
PO4 - Digital Intelligence:

Master digital tools and technologies to efficiently process and analyse information.

PO5 – Scientific awareness & Critical Thinking:

Apply scientific knowledge and critical thinking to solve complex problems and foster sustainable solutions.

PO6 - Ethics & Social Responsibility:



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Lead with integrity, upholding ethical values and a commitment to societal and environmental well-being.

PO7 – Research, Innovation & Entrepreneurship:

Drive innovation through research and collaborations with academia, industry, and communities.

PO8 - Lifelong Learning:

Embrace ongoing personal and professional growth by staying current with new knowledge and technologies.

PO9 - Global Perspective:

Understand and engage with global cultural, social, and economic contexts for positive contributions.

PO10 – Democratic Co-existence:

Prepare individuals to work harmoniously in a pluralistic society, nurturing democratic values and interpersonal understanding.

PROGRAMME SPECIFIC OUTCOMES

PSO1: Theoretical and Applied Mathematics Competency

Demonstrate a thorough understanding of core mathematical concepts and theories as outlined in the 2019 Calicut University BSc Mathematics syllabus. Apply these principles to solve complex problems and real-world scenarios, integrating knowledge from various mathematical fields such as algebra, calculus, and statistics. (PO1, PO5)

PSO2: Advanced Analytical and Computational Techniques

Develop and utilize advanced analytical and computational skills in line with the syllabus content, including proficiency in mathematical software tools and techniques for solving complex mathematical problems and data analysis. (PO4, PO3)

PSO3: Mathematical Modeling and Problem-Solving

Develop the ability to construct and analyse mathematical models for complex real-world problems across various domains, such as physical sciences, engineering, economics, and social sciences. Employ problem-solving techniques and strategies learned from the syllabus to provide innovative solutions and insights. (PO1, PO5, PO7)



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B. Sc Mathematics (2020 Syllabus)

Sl. No.	Course Code	Title	Course Outcome
1	MTS1B01	Basic Logic and Number Theory	<p>CO1: Recall and explain the fundamental principles of propositional and predicate logic, including quantifiers, logical equivalences, and Boolean expressions.</p> <p>CO2: Apply various methods of mathematical proof (direct, indirect, proof by contradiction, induction) to validate mathematical arguments and statements in number theory and logic</p> <p>CO3: Analyze the division algorithm, prime numbers, and greatest common divisor (gcd) using algorithms such as Euclid's algorithm, and apply these to solve linear Diophantine equations</p> <p>CO4: Evaluate the properties and applications of congruences and modular arithmetic to solve problems involving divisibility, linear congruences, and applications of Wilson's, Fermat's, and Euler's theorems.</p> <p>CO5: Formulate recursive functions and mathematical models using logical and number-theoretic principles, and create proofs for number-theoretic propositions, including applications of the Fundamental Theorem of Arithmetic.</p>
2	MTS2B02	Calculus of single variable-1	<p>CO1: Recall and understand the fundamental concepts of functions, limits, and continuity, and explain their properties, graphical representations, and behavior at endpoints.</p> <p>CO2: Apply differentiation techniques and theorems like</p>



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			<p>the Mean Value Theorem to solve real-world problems involving rates of change, optimization, and motion.</p> <p>CO3: Analyze the behaviour of functions by examining extrema, concavity, and inflection points using first and second derivative tests, and apply these to sketch curves and optimize functions.</p> <p>CO4: : Evaluate the role of definite integrals in determining areas between curves, volumes of solids of revolution, and work done by forces, using different integration techniques.</p> <p>CO5: Construct solutions to complex real-life problems by integrating calculus concepts, including solving differential equations and finding the center of mass of objects using definite integrals</p>
3	MTS3B03	Calculus of Single variable-2	<p>CO1: Explain the fundamental concepts of logarithmic, exponential, inverse trigonometric, and hyperbolic functions, and describe their properties, graphs, and applications in calculus</p> <p>CO2: Apply differentiation and integration techniques to solve problems involving natural logarithmic, exponential, and hyperbolic functions, including their use in real-world scenarios.</p> <p>CO3: Analyze the convergence and divergence of sequences and series using appropriate tests such as the Integral Test, Comparison Test, and Alternating Series Test, and apply these to solve related mathematical problems.</p> <p>CO4: Evaluate improper integrals, limits, and indeterminate forms using l'Hôpital's Rule and techniques for handling infinite discontinuities and intervals, demonstrating the</p>



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			ability to handle complex limit problems CO5: Construct mathematical solutions involving parametric and polar equations, vector-valued functions, and surfaces in space, including determining arc lengths, areas, volumes, and curvatures in three-dimensional contexts
4	MTS4B04	Linear Algebra	CO1: Understand and Define the fundamental concepts of linear equations, matrix operations, and vector spaces, demonstrating knowledge of key terms like augmented matrices, Gaussian elimination, and linear independence. CO2: Apply matrix transformation techniques and row-reduction methods to solve linear systems, compute inverses, and analyze the consistency of systems in real-world scenarios. CO3: Analyze the properties of matrices, including diagonalization, eigenvalues, eigenvectors, and inner products, to interpret and manipulate matrix transformations and solve problems involving transformations in $R^{2 \times 2}$ and $R^{3 \times 3}$ CO4: Evaluate the rank, nullity, and fundamental matrix spaces by using concepts like row and column space, orthogonal complement, and matrix operators to assess system solutions and matrix invertibility CO5: Synthesize and Design solutions using advanced techniques like the Gram-Schmidt Process and orthogonal diagonalization to construct orthonormal bases, diagonalize symmetric matrices, and simplify complex vector space transformations
5	MTS5B05	Abstract Algebra	C01: Define the fundamental concepts of groups, including binary operations, subgroups, cyclic groups, and permutation groups, and their structural properties.




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			<p>CO2: Apply the concepts of congruence class modulo n to solve problems involving addition, multiplication, and finding multiplicative inverses, as well as analyze equivalence relations and partitions in various mathematical contexts.</p> <p>CO3: Analyze the structural properties of groups by studying isomorphism, homeomorphisms, cosets, and automorphisms, and demonstrate the use of the first and second isomorphism theorems in solving group theory problems.</p> <p>CO4: Evaluate and construct examples of groups with various properties, such as Abelian groups, cyclic groups, permutation groups, and subgroups of specific orders, while interpreting key theorems like Lagrange's and Cayley's</p> <p>CO5: Synthesize the properties of commutative rings, integral domains, and subrings to develop deeper insights into algebraic structures and demonstrate their understanding of divisors of zero and finite integral domains</p>
6	MTS5B06	Basic Analysis	<p>CO1: Define key concepts related to finite and infinite sets, real numbers, complex numbers, and sequences, demonstrating an understanding of fundamental properties and definitions such as supremum, infimum</p> <p>CO2: Apply limit theorems and convergence criteria to evaluate the limits of sequences and series, employing tools such as the Squeeze Theorem and Cauchy criterion to determine convergence or divergence in practical examples</p> <p>CO3: Will analyze sequences and their limits by investigating the behavior of subsequences, employing the Bolzano-Weierstrass theorem to establish convergence properties and discussing the implications of properly divergent sequences</p> <p>CO4: Create complex functions and mappings in the</p>



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			<p>complex plane, utilizing polar coordinates and de Moivre's theorem to derive results regarding powers and roots of complex numbers, while also illustrating these concepts through graphical representations.</p> <p>CO5: Evaluate properties of open and closed sets in \mathbb{R} and the complex plane, using definitions and theorems to characterize sets, identify cluster points, and discuss implications of the Cantor set and its properties in terms of measure and topology.</p>
7	MTS5B07	Numerical Analysis	<p>CO1: Explain key concepts in numerical methods, such as the bisection method, fixed-point iteration, and the Newton-Raphson method, along with related terminologies like 'round-off error' and 'rate of convergence'</p> <p>CO2: Apply various numerical techniques to solve equations in one variable, employing methods such as Newton's method and the secant method while analyzing their convergence properties and error behaviors.</p> <p>CO3: Analyze and compare different interpolation methods, including Lagrange interpolation and Neville's method, assessing their effectiveness in polynomial approximation and understanding the implications of divided differences on computational accuracy.</p> <p>CO4: Synthesize knowledge from numerical differentiation and integration to construct and evaluate numerical quadrature methods like the Trapezoidal Rule and Simpson's Rule, including composite rules and Gaussian quadrature for arbitrary intervals.</p> <p>CO5: Evaluate initial-value problems for ordinary differential equations using techniques such as Euler's</p>



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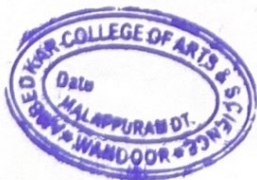
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			method and Runge-Kutta methods, assessing their accuracy and stability while recommending appropriate methods based on specific problem requirements.
8	MTS5B08	Linear Programming	CO1: Understanding Linear Programming Basics. CO2: Formulation of Linear Programming Problems. CO3: Implementation of the Simplex Method. CO4: Application of Duality Theory. CO5: Evaluation and Application of Transportation and Assignment Problems.
9	MTS5B09	Introduction to Geometry and Theory of Equations	CO1: Define and describe conic sections, including parabolas, ellipses, and hyperbolas, as well as their standard forms and properties such as focal distances and reflection laws. CO2: Apply the properties of conics to solve problems involving tangents, normals, and the identification of conics from their general equations, demonstrating proficiency in recognizing different conic types based on their characteristics CO3: Analyze affine transformations and their properties, distinguishing between isometries and affine transformations, and applying the fundamental theorem of affine geometry to various geometric problems. CO4: Synthesize knowledge from polynomial theory, employing methods such as synthetic division, Taylor expansion, and the Fundamental Theorem of Algebra to derive and factor polynomials, determining the nature and multiplicity of their roots. CO5: Evaluate the roots of polynomial equations using various methods, including Descartes' rule of signs and Rolle's theorem, assessing the implications of root behavior



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			and multiplicity within defined intervals
10	MTS5 D04	Mathematics for decision making	<p>CO1: Understand and Describe Fundamental Concepts of Decision Making in Mathematics.</p> <p>CO2: Apply Mathematical Techniques to Solve Decision-Making Problems.</p> <p>CO3: Analyze Decision-Making Scenarios Using Quantitative Methods.</p> <p>CO4: Evaluate the Effectiveness of Mathematical Models in Decision Making.</p> <p>CO5: Create and Develop Strategic Decision-Making Models Using Mathematical Tools.</p>
11	MTS6B10	Real Analysis	<p>CO1: Define continuous functions, identify criteria for continuity and discontinuity, and provide examples of both types of functions, including specific cases such as Dirichlet and Thomae functions.</p> <p>CO2: Apply theorems related to continuous functions on intervals, such as the Maximum-Minimum Theorem and Bolzano's Intermediate Value Theorem, to solve problems involving the existence of roots and the boundedness of functions.</p> <p>CO3: Analyze concepts of uniform continuity, differentiating between uniform and nonuniform continuity, and employing the Weierstrass Approximation Theorem to approximate continuous functions using step functions and piecewise linear functions.</p> <p>CO4: Synthesize knowledge from Riemann integration, employing the Fundamental Theorem of Calculus, substitution, and integration by parts, to evaluate integrals and understand the properties of Riemann integrable functions.</p>



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			<p>CO5: Evaluate series of functions, assessing convergence through tests for uniform convergence, including the Weierstrass M-Test, and determining the conditions for the existence of improper Riemann integrals using the Cauchy Principal Value and other criteria.</p>
12	MTS6B11	Complex Analysis	<p>CO1: Define and understand the concepts of limits and continuity for complex functions, including the properties of bounded functions, branches, and branch cuts.</p> <p>CO2: Apply the Cauchy-Riemann equations to determine the analyticity of complex functions, differentiating between analytic and non-analytic functions, and recognize harmonic functions and their properties.</p> <p>CO3: Analyze integration in the complex plane, evaluating complex integrals using the Cauchy-Goursat theorem and understanding the independence of path in contour integrals, along with the implications of Cauchy's integral formulas.</p> <p>CO4: Synthesize knowledge from sequences and series, including convergence tests and the formulation of Taylor and Laurent series, enabling them to express complex functions in series form and analyze their properties</p> <p>CO5: Evaluate residues using the residue theorem, applying it to compute complex integrals and derive consequences for real trigonometric integrals, thereby solidifying their understanding of singularities and the behavior of functions near them.</p>
13	MTS6B12	Calculus of	<p>CO1: Define and explain concepts related to functions of</p>



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		Multi variable	<p>multiple variables, including limits, continuity, partial derivatives, and differentiability, along with their geometric interpretations.</p> <p>CO2: Apply techniques such as the chain rule, directional derivatives, and Lagrange multipliers to find extrema and optimize functions of several variables, demonstrating proficiency in solving real-world problems involving constraints.</p> <p>CO3: Analyze double and triple integrals, including evaluating iterated integrals and changing the order of integration, as well as applying multiple integrals to compute volumes, areas, and other physical properties of solids</p> <p>CO4: Synthesize their understanding of vector calculus, employing line integrals and surface integrals to calculate work done by vector fields and fluid flow, while interpreting results through the lens of conservative vector fields and potential functions.</p> <p>CO5: Evaluate the implications of Green's Theorem, the Divergence Theorem, and Stokes' Theorem in connecting line and surface integrals to volume integrals, thereby enhancing their ability to interpret physical phenomena in a mathematical context.</p>
14	MTS6B13	Differential Equations	<p>CO1: Identify and classify different types of differential equations, including first-order linear and nonlinear equations, and understand basic mathematical models and their significance in various applications</p> <p>CO2: Apply methods such as integrating factors, separation of variables, and the method of undetermined coefficients to</p>




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			<p>solve first-order and second-order differential equations, demonstrating proficiency in both theoretical and practical aspects of differential equations.</p> <p>CO3: Analyze solutions of homogeneous and nonhomogeneous linear differential equations, utilizing techniques such as the Wronskian and reduction of order, to understand the nature of solutions in terms of stability and behavior over time.</p> <p>CO4: Synthesize knowledge of Laplace transforms to solve initial value problems and analyze step and impulse functions, integrating this knowledge to tackle real-world problems in engineering and physics.</p> <p>CO5: Evaluate boundary value problems and apply Fourier series to solve partial differential equations, interpreting results in the context of physical phenomena such as heat conduction and vibrations, while assessing the convergence of Fourier series in different scenarios.</p>
15	MTS6B14(E01)	Graph Theory	<p>CO1: Define fundamental concepts in graph theory, including vertices, edges, subgraphs, and vertex degrees, while understanding their significance in modeling real-world phenomena.</p> <p>CO2: Apply graph representations and properties to analyze various types of graphs, including the identification of paths, cycles, bridges, and connectivity, demonstrating the ability to construct and manipulate graphs for problem-solving.</p> <p>CO3: Analyze Eulerian and Hamiltonian graphs,</p>



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			<p>identifying necessary conditions for the existence of Euler tours and Hamiltonian cycles, and evaluate their implications in network design and optimization</p> <p>CO4: Synthesize knowledge of planar graphs and Euler's formula to solve problems involving graph drawing and representation, gaining insights into graph embedding and topological properties</p> <p>CO5: Evaluate the connectivity of graphs and the significance of spanning trees and cut vertices, using theoretical frameworks to assess graph robustness and reliability in various applications.</p>
16	MTS6P15(PR)	Project Viva	<p>CO1: Understand and Describe Project Concepts and Methodologies.</p> <p>CO2: Apply Mathematical Techniques to Real-World Problems.</p> <p>CO3: Analyze Results and Interpret Findings.</p> <p>CO4: Evaluate the Quality and Validity of the Project Work.</p> <p>CO5: Create and Present a Comprehensive Project Report and Oral Presentation.</p>

Complimentary – Computer Science (2019 Syllabus)

Sl No.	Course Code	Title	Course Outcome
1	CSC1C01	Computer Fundamentals	<p>CO1: Understand the knowledge of number systems and data representations.</p> <p>CO2: Apply Boolean Algebra to Simplify Logical Expressions.</p> <p>CO3: Analyze CPU Performance Metrics and Their Impact on System Efficiency.</p>



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			CO4: Evaluate I/O Systems and Their Impact on Overall Computer Performance. CO5: Create and Develop Algorithms and Corresponding Flowcharts for Real-World Problems.
2	CSC2C02	Fundamentals of System Software, Networks and DBMS	CO1: Understand and Describe the Fundamental Concepts of System Software, networks and dbms. CO2: Apply Networking Protocols and Standards to Configure Network Devices. CO3: Analyze Database Design Principles and Normalization Techniques. CO4: Evaluate Complex SQL Queries for Data Retrieval. CO5: Create and Develop Web Pages Using HTML.
3	CSC3C03	Problem Solving Using C programming	CO1: Understand and Describe the Basics of the C Programming Language. CO2: Apply C Programming Constructs to Solve Simple Problems. CO3: Analyze and Debug C Programs for Errors and Efficiency. CO4: Evaluate and Use Functions, Pointers, and Arrays in C Programming. CO5: Create and Develop Comprehensive C Programs for Real-World Applications.
4	CSC4C04	Data Structure Using C programming	CO1: Understand and Describe Fundamental Data Structures. CO2: Apply C Programming Constructs to Implement Data Structures. CO3: Analyze the Efficiency of Data Structure Operations. CO4: Evaluate Algorithmic Approaches for Data Structure Manipulation. CO5: Create and Develop Advanced Data Structure Applications Using C.
5	CSC4C05	Programming Lab: C and Data structure	CO1: Understand and Describe Basic C Programming Concepts. CO2: Apply C Programming to Implement Basic Data Structures. CO3: Analyze and Debug Programs for Data



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			<p>Structure Implementation.</p> <p>CO4: Evaluate the Performance of Data Structures through Practical Experiments.</p> <p>CO5: Create and Develop Comprehensive Programs Utilizing Advanced Data Structures.</p>
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Complimentary – Statistics (2019 Syllabus)

Sl No.	Course Code	Title	Course Outcome
1	STA1C01	Introductory Statistics	<p>CO1: Describe the functions of various statistical organizations in India, including the CSO and NSSO.</p> <p>CO2: Explain the different types of data (nominal, ordinal, time series, discrete, and continuous) and their significance in statistical analysis</p> <p>CO3: Apply measures of central tendency and dispersion, including mean, median, mode, and standard deviation, to summarize and interpret real-world data sets.</p> <p>CO4: Analyze relationships between variables by constructing and interpreting scatter plots, regression lines, and correlation coefficients</p> <p>CO5: Evaluate time series data using methods like moving averages and seasonal component estimation to make informed decisions based on trends.</p>
2	STA2C02	Probability Theory	<p>CO1: Define basic probability terms such as random experiments, sample space, events, and different types of probability</p> <p>CO2: Explain the properties and applications of probability mass functions (PMF) and probability density functions (PDF) for both discrete and</p>



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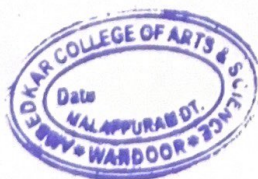
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			<p>continuous random variables</p> <p>CO3: Calculate mathematical expectations (mean, variance) for univariate distributions and apply moment generation functions to derive properties of distributions</p> <p>CO4: Analyze the relationships between bivariate random variables by calculating joint, marginal, and conditional probabilities and interpreting the results</p> <p>CO5: Evaluate the independence of random variables using joint probability distributions and covariance, applying statistical techniques such as Karl Pearson's correlation coefficient.</p>
3	STA3C03	Probability Distributions and Sampling Theory	<p>CO1: Describe various standard probability distributions including Bernoulli, Binomial, Poisson, and Normal distributions, along with their key properties</p> <p>CO2: Apply the Central Limit Theorem to solve problems involving sample means and variances, including situations where the theorem's assumptions are met.</p> <p>CO3: Analyze sampling methods, including simple random sampling, stratified sampling, and cluster sampling, and compare their applicability to different real-world scenarios.</p> <p>CO4: Evaluate the convergence of random variables using Chebyshev's inequality and the Law of Large Numbers in both independent and identically distributed (iid) cases.</p> <p>CO5: Explain the relationships between sampling distributions such as the chi-square, t-distribution, and F-distribution and use them in hypothesis testing.</p>



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4	STA4C04	Statistical inference and quality control	<p>CO1: Explain the core concepts of estimation theory, including unbiasedness, consistency, efficiency, and sufficiency, and how they relate to point estimation.</p> <p>CO2: Apply maximum likelihood and moment estimation methods to estimate parameters of probability distributions and evaluate their efficiency using Cramer-Rao inequality.</p> <p>CO3: Analyze various hypothesis testing procedures, such as the Neyman-Pearson Lemma and large sample tests and interpret the outcomes of these tests in practical scenarios.</p> <p>CO4: Evaluate non-parametric testing methods like the Mann-Whitney U test, Kruskal-Wallis test, and Median test for different types of data where parametric assumptions are violated.</p> <p>CO5: Design and implement quality control charts (X-bar, R-chart, p-chart) to monitor and improve the quality of manufacturing processes, identifying causes of variation and suggesting corrective actions.</p>
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LEARNING OUTCOMES-BASED CURRICULUM FRAME WORK FOR UNDERGRADUATE AND POST GRADUATE EDUCATION

FILE DESCRIPTION

We are pleased to present the Learning Outcome Based Curriculum Framework for Under Graduation and Post Graduation programmes offered by various departments of Ambedkar College of Arts and Science, Wandoor. This document embodies our institution's Vision and Mission, guiding us towards academic excellence and ensuring our commitment to provide comprehensive and insightful education.

The vision of Ambedkar College of Arts and Science, Wandoor is to 'change lives through education'. We aim to provide high-quality, accessible learning experiences that empower students to achieve their full potential.

The departments responsible for the programme establish Programme Outcomes (POs), Course Outcomes (COs), and Programme Specific Outcomes (PSOs) in strict adherence to Outcome-Based Education (OBE) objectives. This process involves thorough consultations with faculty and stakeholders. The outcomes are widely disseminated through various channels, including the college website, circulars, faculty and HOD meetings, Bridge Course and Orientation programs.

The syllabi for various programs are showcased on the college website, clearly accompanied by the corresponding Programme Outcomes and Course Outcomes. Additionally, printed copies of the program syllabi are made available in each department for the reference of both teachers and students.

At the beginning of each academic programme, students are introduced to the Programme Outcomes during orientation sessions conducted at both the college and department levels. Teachers play a crucial role by effectively communicating the course outcomes to students at the onset of each course. They employ various assessment instruments to evaluate students' progress toward these outcomes, guided by a detailed semester plan.

Furthermore, a comprehensive college handbook is provided to both staff and students, containing pertinent details about the programmes offered. This holistic approach ensures that all stakeholders are well-informed and aligned with the educational objectives, fostering an environment that supports student learning and success.

Heads of Departments (HoDs) play a crucial role in raising awareness among students regarding Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs). This communication is reinforced by faculty members, class teachers, mentors, course coordinators, and programme coordinators, all of whom emphasize the significance of achieving these outcomes. PSOs delineate specific skill requirements and achievements that students are expected to meet by the end of their programs.

The Board of Studies (BOS), which consists of HoDs and subject experts, is responsible for discussing and approving PSOs after receiving endorsement from the principal. POs serve as broad statements that articulate the professional accomplishments students should achieve upon completing their programmes, while COs provide direct statements that outline the essential and lasting disciplinary knowledge and skills students are expected to acquire upon completing a course.

Each course establishes a set of COs, along with corresponding evaluation criteria. These COs are directly mapped to POs, offering a quantitative measure of the achievement of program outcomes. Students' performance in examinations throughout each semester is used to assess the level of attainment for both POs and PSOs by mapping COs to these broader outcomes. The program coordinator, in collaboration with faculty members, develops the mapping of COs to POs and PSOs for all courses within the programme.

Assessment of CO attainment employs both direct and indirect methods. The direct method includes mid-term and end-semester examinations, while lab courses require the outcomes of practical sessions align with one or more defined program outcomes. This alignment demonstrates the knowledge, skills, and values that students should acquire upon completing each course.

Courses contributing to POs are clearly identified and evaluated through their respective COs. This evaluation utilizes a combination of internal assessments (20% weightage) and external examinations (80% weightage), alongside indirect assessments such as end-of-course surveys.

The results from the assessments of POs are then compared with expected attainment levels. A PO is deemed satisfied when the expected level of achievement is reached, ensuring that the educational objectives are met. This systematic approach not only facilitates clear communication of expectations to students but also supports continuous improvement in program delivery and outcomes. By actively engaging in this process, faculty and coordinators create

a robust educational environment that fosters student success and alignment with professional standards.