



PAZHASSIRAJA COLLEGE

Pulpally, Wayanad, Kerala, India, 673579
Government Aided & Affiliated to the University of Calicut
Reaccredited by NAAC with A+ Grade

CRITERION 2 TEACHING, LEARNING, EVALUATION

2.6.1 - Programme and course outcomes



AQAR

Submitted to

NAAC



2023-24

Department of Biochemistry Programme outcome 2023-2022

UG Biochemistry Programme outcome

This curriculum has been prepared with the objective of giving sound knowledge and understanding of biochemistry to undergraduate students. The goal of the syllabus is to make the study of biochemistry stimulating, relevant and interesting. It has been prepared with a view to equip students with the potential to contribute to academic and industrial environment. This curriculum will expose students to various fields in chemistry and develop interest in related disciplines. Biochemistry and chemistry being a border science to biology, physics and engineering, has a key role to play in the understanding of these disciplines. After completion of B.Sc degree in biochemistry, students gained the theoretical as well as experimental knowledge of handling chemicals, biological assays and its application for specific purposes. The student could expand the knowledge in science and opportunities related to chemistry in government and private services in the field of food safety, health inspector, clinical laboratories, pharmacist etc. the updated syllabus is based on an interdisciplinary approach to understand the application of the subject in daily life


Board objectives:

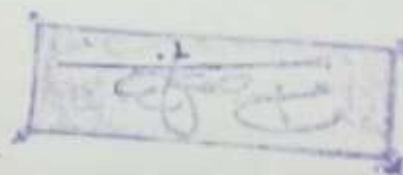
- To enable the students
- To understand basic facts and concepts in biochemistry
- To develop the ability for applying the principles of biochemistry
- To appreciate the achievements in biochemistry and to know the role of biochemistry in nature and society
- To familiarize the emerging areas of chemistry and their application in various spheres of biological sciences and to apprise the students of its relevance in future studies
- To develop skills in proper handling of instruments and chemicals
- To be exposed to different processes used in biochemical laboratories and pharmaceutical industries and their application
- To make the students eco-friendly by creating a sense of environmental awareness in them.
- To make the students aware of application of biochemistry in day to day life

PG Biochemistry Programme outcome

- PG biochemistry Curriculum has been designed to provide insights into incredible complexity of life through biochemical signalling and metabolism.
- Students will be experimenting on biochemical and clinical techniques and chromatography in order to interpret results to prepare for the modern science laboratory. MSc Biochemistry will help students develop analytical and problem-solving skills apart from gaining a fundamental knowledge of biochemical activities within the living cells.
- The curriculum offers a plethora of career opportunities in private research institutions, hospitals, social and non-profit organization and government agencies all hunting for expert biochemists.
- With the increase in diseases like cancer and AIDs and even mental disorders, pharmaceutical firms are looking for professionals to help finding remedy and cure for the same. Scope to work in private research and development centers is increasing.

Understanding many medical sciences, such as drug development, immunology, pathology, pharmacy, vaccine development, etc., requires a thorough understanding of biochemistry. MSc Biochemistry offers a fast-paced interactive network with job opportunities all across the world at various levels


Dept. of Biochemistry
Pachasiraja College
Pulpally-Wayanaad



Level of outcome, Department of biochemistry 2023-2024

Result analysis-2nd sem

Msc Biochemistry-2022-2024 Batch

PROGRAMME	TOTAL REGISTERED	TOTAL PASSED	GRADES										PASS PERCENTAGE
			O	A+	A	B+	B	C	P	F			
MSc Biochemistry	11	11	-	3	5	3							100%

Total number of students appeared for exam – 11

Total number of students passed - 11

Pass Percentage = 100%

Result analysis-3rd sem

Msc Biochemistry-2023-2024 Batch

PROGRAMME	TOTAL REGISTERED	TOTAL PASSED	GRADES										PASS PERCENTAGE
			O	A	A+	B	B+	C	P	F			
MSc Biochemistry	11	10				6		4					91%
													One result Pending

Total number of students appeared for exam – 11

Total number of students passed - 10 (one awaiting)

Current Pass Percentage = 100%

Result analysis-1st sem

Msc Biochemistry-2023-2024 Batch

Programme	Total registered	Total passed	Grades										Pass percentage
			O	A+	A	B+	B	C	P	F			
M.sc Biochemistry	11	10		4	2	3	1				1	90.91%	

Total number of students appeared for exam – 11

Total number of students passed - 10

Current Pass Percentage = 90.91%

Level of outcome UG, Department of biochemistry 2023-2024

RESULT ANALYSIS

IV TH SEMESTER BSC BIOCHEMISTRY 2021- 24 BATCH

Programme	Total registered	Total passed	Grades									Pass percentage
			O	A+	A	B+	B	C	P	F		
B.sc Biochemistry	15	11									73.33%	
			-	3	3	4	1			3		

Total number of students appeared for exam – 15

Total number of students passed - 11 (one awaiting)

Pass Percentage = 73.33%

RESULT ANALYSIS

VI TH SEMESTER BSC BIOCHEMISTRY 2021- 24 BATCH

Programme	Total registered	Total passed	Grades									Pass percentage

B.sc Biochemistry	15	10	O	A+	A	B+	B	C	P	F	66.6%
			-	1	5	1	3			4	

Total number of students appeared for exam – 15

Total number of students passed - 10

Pass Percentage = 66.6%

RESULT ANALYSIS

1 ST SEMESTER BSC BIOCHEMISTRY 2021- 24 BATCH

Programme	Total registered	Total passed	Grades								Pass percentage
			O	A+	A	B+	B	C	P	F	
B.sc Biochemistry	4	4									100%
						2	1	1			

Total number of students appeared for exam – 4

Total number of students passed - 4

Pass Percentage = 100%

The result analysis was based on internal and external assessment. The scheme of evaluation of for internal and external assessment for UG and PG programme is enclosed for evaluation. Model question papers for UG and PG programme is also attached. As per evaluation of the present result the pass percentage is above 90 for PG and 70 for UG and is in supporting the present assessment scheme, syllabus and question paper and examination system. 100% result is also attained for different UG and PG batches. To attain 100% result for all the semesters by various UG and PG batches the department have to adopt strategies like special coaching to slow learners and effective mentoring system based on student academic performance

Dept of Biochemistry
Pazhassiraja College
Puzhally-Wayanad



PROGRAMME OUTCOME 2023-2024 BBA

1. To provide the students with the basic understanding about management education.
2. To prepare student to exploit opportunities being newly created in the management profession.
3. To focus on the holistic development of the students with conceptual clarity, analytical ability, critical thinking and communication skills.
4. To develop appropriate skills in the students so as to make them competent and provide themselves self employment.
5. To train the students to be competent entry level management professionals
6. To impart basic and operational knowledge on all functional areas of management.
7. To inculcate entrepreneurial skills among the management graduates to turn to successful entrepreneurs.
8. To promotes ethical and value-based leadership ability.
9. To equip students to demonstrate the capabilities required to apply cross-functional business knowledge and technologies in solving real-world business problems.



Principal
Pazhassiraja College
Pulpally



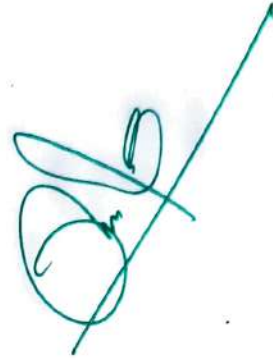
PRINCIPAL IN CHARGE
PAZHASSIRAJA COLLEGE
PULPALLY - 673579

Learners Outcome of BBA 2023-2024

1. The course will ensure to understand better business knowledge and understanding among students.
2. The course will help in development of better communication.
3. It helps in better critical thinking and problem solving.
4. Ethics and Social Responsibility is been developed among students.
5. A sense of leadership and teamwork gets fostered among students.
6. Global perspective on business can be developed among students



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Pazhassiraja College
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PRINCIPAL
PAZHASSIRAJA COLLEGE
PULPALLY - 610501



PROGRAMME OUTCOME OF MCOM 23-24

1. To provide foundation for further advanced studies and research in the area of Commerce such as M.Phil. and Ph. D. programmes.
2. To allow M.Com. graduates to choose for further advanced studies in different specialization of Commerce such as Accounting, Taxation, Finance, Human Resource, Marketing etc.
3. To enable M. Com. graduates for a wide range of career dealing with the flow of money, from accountant to investment banker, money manager to personal finance consultant.
4. To enable master graduates in Commerce to qualify UGC-NET/SET and JRF examinations so that they can take-up the work of teaching or research of high quality.
5. To impart entrepreneurial skills for starting new business ventures.


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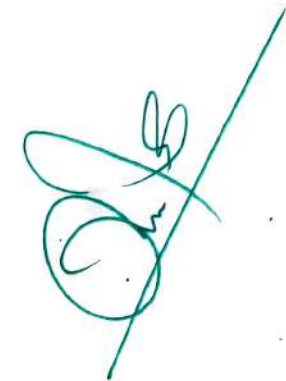
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LEARNERS OUTCOME OF M COM 2023-2024

1. The learner shows interest and curiosity to study more in the field of Commerce.
2. The learner tries to get in-depth knowledge related to Commerce such as Accounting, Taxation, Finance, Human Resource, Marketing etc.
3. The learner shows great confidence for a wide range of career dealing with the flow of money, from accountant to investment banker, money manager to personal finance consultant.
4. The learner shows great confidence in taking up of work of teaching or research of high quality.
5. The learner searches;for all the opportunities for starting new business ventures.



Pazhassi Raj College
Pulpally - 686 570



PRINCIPAL IN CHARGE
PAZHASSI RAJ COLLEGE
PULPALLY - 686 570



Pazhassiraja College, Pulpally

Department of Economics

Programme and Course Outcome

BA Economics

Programme Outcome

PO: 1. Students understand the theoretical and practical knowledge that makes accurate analysis of the economic situation possible.

PO: 2. Students understand and evaluate the interrelation between the economy and society.

PO: 3. Students understand and evaluate the economic problems from a global perspective and take a local approach to solving them.

PO: 4. Students understand different economic system and analyse the implications of decisions related to economic policy.

PO: 5. Students respond to the economic problems arising from society in general and the different units that interact therein (e.g. institutions, private companies and sectors of the economy).

PO: 6. Students assimilate skill needed to carry careers in government and private enterprise as well as those pursuing graduate degrees in professional schools or in the field of economics.

PO: 7. Students develop the attitude to conduct research in the socio economic issues arising in their environment.

PO: 8. Students assimilate the necessary skills for analyzing the data set related to socioeconomic issues.

PO: 9. Students develop the capacity to analyze the socio-political and economic issues in the language of an economist.

PO: 10. Students analyse economic data, interpret the economic events and visualise the economic future of the nation.

Programme Specific Outcomes

PSO: 1. Students critically evaluate and apply the theories and techniques of economics.

PSO: 2. Students demonstrate subject-specific „thinking“ skills that are readily transferable to problem solving and decision making in a wider context.

PSO: 3. Students develop interest for lifelong learning, employing a range of practical and professional skills.

PSO: 4. Student find, evaluate, synthesize and use information from a variety of sources

PSO: 5. Students articulate an awareness of the social and community contexts within their disciplinary field

PSO: 6. Students assimilate knowledge of fundamental concepts and theoretical propositions

PSO: 7. Students understand the methodology by which economic ideas are framed, tested and modified.

PSO: 8. Students take up a career in economics and related areas.

PSO: 9. Students analyse the economic issues of national and international importance and realize the dynamics behind them.

PSO: 10. Students generalise how the economic policies of the government and governmental institutions affect the common people.

PSO: 11. Students critically evaluate and apply the theories and techniques of economics.

PSO: 12. Students demonstrate subject-specific „thinking“ skills that are readily transferable to problem solving and decision making in a wider context.)

BA Economics

Course Outcome

Semester	Course code	Name of Course
I	ECO1 B01	Microeconomics I
II	ECO2 B02	Macroeconomics I
III	ECO3 B03	Quantitative Methods for Economic Analysis I
	ECO3 B04	Microeconomics II
IV	ECO4 B05	Quantitative Methods for Economic Analysis II
	ECO4 B06	Macroeconomics II
V	ECO5 B07	Fiscal Economics
	ECO5 B08	Indian Economic Development
	ECO5 B09	Economics of Capital Market
	ECO5 B10	Mathematical Economics
VI	ECO6 B11	Financial Economics
	ECO6 B12	International Economics
	ECO6 B13	Development of Economic Thought
	ECO6 B14	Economics of Growth and Development
	ECO6 B15	Project/Research methodology

Semester I

MICROECONOMICS – I

No.	Course Outcomes	Cognitive Level
CO 1	Students explain what economics is and explain why the subject is important	Explaining
CO 2	Students explain how economists use economic models	Explaining
CO 3	Students understand the scarcity and choice in the economy and the basic Problems of an economy.	Understanding
CO 4	Students explain and illustrate market equilibrium and disequilibrium.	Explaining & illustrating
CO 5	Students analyse how consumers maximize the total utility within a given income using the utility maximizing rule.	Analysing
CO 6	Students describe how consumer's utility changes when income or price change.	Describing
CO 7	Students define the term production and explain what a production function is; define and differentiate between marginal, average and total product; compute and graph marginal, average and total product.	Defining & Explaining
CO 8	Students define and differentiate between different cost concepts and interpret the relation between long run and short run costs.	Defining & differentiating

Semester II

MACROECONOMICS I

No.	Course Outcomes	Cognitive Level
CO 1	Students appreciate the context in which Macroeconomics emerged as a separate discipline.	Appreciating
CO 2	Students understand the concepts regarding macroeconomic model building.	Understanding
CO 3	Students understand and evaluate different concepts and measurements of national income	Understanding & evaluating
CO 4	Students explain how output and employment are determined in classical and Keynesian systems of economics.	Explaining
CO 5	Students explain and analyse why actual output will fall short of the productive capacity of the economy.	Explaining & Analysing
CO 6	Students evaluate fiscal policies of Governments at different situations.	Evaluating
CO 7	Students understand and generalize the concept of money and money supply in the economy and evaluate monetary policy of different Governments.	Understanding & Generalising

Semester III

QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS – I

No.	Course outcomes	Cognitive Level
CO 1	Students understand and demonstrate sound quantitative skills to collect analyse and interpret empirical data related to socio-economic issues.	Understanding & demonstrate
CO 2	Students understand the skill in statistical and mathematical techniques that are required for a meaningful study of applied economics and for carrying out empirical analysis.	understanding
CO 3	Students generalize skills in quantitative analysis and apply it to study the concepts in most branches of economics	Generalizing & applying
CO 4	Students solve and analyse the data using Spread Sheet	Solving & analysing
CO 5	Students draw graphs with the help of economic data	Drawing
CO 6	Students analyse and apply different techniques of correlation and regression analysis.	Analysing & Applying

MICROECONOMICS II

No.	Course outcomes	Cognitive Level
CO 1	Students understand the difference between the firm and industry; explain and illustrate Demand curve, Average Revenue curve and Marginal Revenue curve of a perfectly competitive firm.	Understanding & explaining
CO 2	Students understand and determine the break-even and shut down points of production for a perfectly competitive firm; understand why perfectly competitive markets are efficient.	Understanding
CO 3	Students define and analyse the characteristics of monopoly and explain the sources of barriers to entry.	Defining & analysing

CO 4	Students explain why a monopoly is inefficient using dead weight loss; differentiate between a single price monopolist and a price discriminating monopolist.	Explaining & differentiating
CO 5	Students define the characteristics of a monopolistically competitive industry and explain the difference between short run and long run equilibrium in a monopolistically competitive industry.	Defining & Explaining
CO 6	Students define characteristics of oligopolies and explain why collusion can occur in oligopolistic industries.	Defining & Explaining
CO 7	Students explain pricing and employment of factor inputs and define demand for and supply of factor inputs.	Defining & Explaining
CO 8	Students explain equilibrium in competitive factor market and factor market with monopoly power.	Explaining

Semester IV

QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS – II

No.	Course Outcomes	Cognitive level
CO 1	Students understand the skill in the calculation of mathematical techniques that are required for a meaningful study of applied economics and other branches.	Understanding
CO 2	Students understand and demonstrate sound quantitative skills to collect analyse and interpret empirical data related to socio-economic issues.	Understanding and solving
CO 3	Students understand and apply the concepts Derivatives and Marginal Concepts	Understanding and applying
CO 4	Students quantify economic variables and apply statistical techniques in Economics.	Quantifying and applying
CO 5	Students understand and calculate different concepts coming under index number.	Understanding & calculating
CO 6	Students analyse and apply different concepts coming under the areas of vital statistics	Analysing & Applying
CO 7	Students understand and solve different problems of probabilities.	Analysing & solving

MACROECONOMICS – II

No.	Course Outcome	Cognitive Level
CO 1	Students understand and derive IS-LM curves and use the framework to explain the working of an economy	Understanding & deriving
CO 2	Students explain the way fiscal and monetary policy works and apply the concept of ISLM framework.	Explaining & applying
CO 3	Students explain the concept and measurement of inflation and unemployment.	Explaining

CO 4	Students explain the trade-off between inflation and unemployment as predicted by the Phillips curve and its collapse after the stagflation of 1970s.	Explaining & predicting
CO 5	Students analyze different phases of trade cycle, and demonstrate various trade cycle theories	Analysing & demonstrating
CO 6	Students understand and analyse the reasons for economic recessions and suggest the appropriate instruments of monetary and fiscal policy.	Understanding & analysing
CO 7	Students measure the inflation in the economy and apply the concepts like WPI-CPI-PPI-GDP deflator.	Applying & calculating

Semester V

FISCAL ECONOMICS

No.	Course Outcome	Cognitive Level
CO 1	Students define and differentiate public finance and private finance and to generalize the concept of maximum social advantage	Defining & differentiating
CO 2	Students understand and explain the public expenditure and the effects and importance of public expenditure in India	Understanding & explaining
CO 3	Students understand the cost-benefit analysis and apply its principle in the day today economic life.	Understanding & applying
CO 4	Students understand various concepts of tax, explain the tax and non tax revenue and compare and contrast the direct tax and indirect tax and its benefits.	Understanding & explaining
CO 5	Students understand and develop the skill to calculate personal, corporate income tax and other taxes	Understanding & calculating
CO 6	Students explain the types of public debt and analyse how debt is repaid.	Explaining & analyzing
CO 7	Students describe government budget and budgeting and understand the different aspects of federal finance and local finance	Understanding & describing
CO 8	Students understand the federal finance, function of finance commissions and analyse Centre State financial relations	Understanding & analysing
CO 9	Students understand NITI Aayog and explain local finances and functions and revenues	Understanding & explaining

INDIAN ECONOMIC DEVELOPMENT

No.	Course Outcomes	Cognitive Level
CO 1	Students explain the growth and structural changes happened in Indian economy from British period to till date.	Explaining
CO 2	Students understand the background and programmes under new economic policy.	Understanding

CO 3	Students Understand the place of Agriculture, Industry and service sector in India's economy.	Understanding
CO 4	Students describe the causes and magnitude of poverty and unemployment in India.	Describing
CO 5	Students analyse various economic issues happening around us.	Analysing
CO 6	Students understand and evaluate numerical information relating to various aspects of Indian economy and India's economic policies.	Understanding & evaluating
CO 7	Students refer books related to Indian economy, collect clippings and articles from newspapers and magazines and also follow economic survey, economic review and RBI Bulletin.	Referring & collecting
CO 8	Students explore beyond the texts, conducts field visits and report economic events from field visits.	Exploring & visiting
CO 9	Students analyse the basic characteristics of Kerala economy and evaluate the Kerala model with other economies.	Analysing & evaluating

ECONOMICS OF CAPITAL MARKET

No.	Course outcomes	Cognitive Level
CO 1	Students understand the basic structure of financial system and classify financial market, financial instruments, financial assets, financial institutions and financial services	Understanding & classifying
CO 2	Students understand the role and features of capital market and differentiate its instruments	Understanding
CO 3	Students understand capital markets operations and classify different capital market instruments as per its characteristics.	Understanding & classifying
CO 4	Students understand primary market and analyse the methods of issuing new issues	Understanding & analysing
CO 5	Students analyse the stock indices of various stock exchanges.	Understanding & analysing

CO 6	Students understand the basics of capital market to lead a career from capital market.	Understanding
CO 7	Students visits stock trading terminal so as to get an idea of the online buying and selling of shares.	Visiting
CO 8	Students watch exclusive financial channels like CNBC TV 18, NDTV PROFIT etc, to get an idea of stock trading and capital market activities.	Watching media
CO 9	Students read financial dailies like Economic Times, Business Line, Business Standard, Dhanam etc regularly in order to get a proper understanding of the terms and concepts and the working of capital markets	Reading & understanding

MATHEMATICAL ECONOMICS

No.	Course Outcomes	Cognitive Level
CO 1	Students understand the language of mathematical economics and internalize how the whole body of economics is been influenced by mathematical science.	Understanding & internalising
CO 2	Students understand mathematical models and generalize various functions in economics	Understanding & generalising
CO 3	Students explain different marginal concepts in mathematical economics and solve mathematically different concepts of elasticity.	Explaining & solving
CO 4	Students solve optimization problems in economics by applying mathematical tools.	Applying & solving
CO 5	Students analyse and solve problems related to production function, linear Programming and input output analysis	Analysing & solving
CO 6	Students solve the equilibrium of different market structure by using mathematical techniques.	Solving
CO 7	Students predict the economic variables from the existing data set	Predicting
CO 8	Develop attitude to opt courses in economics in the	Developing interest

	institutes of high repute	
CO 9	Students undertake minor research projects to apply the tools they assimilated.	Applying

Semester VI

FINANCIAL ECONOMICS

No.	Course Outcomes	Cognitive Level
CO 1	Students understand the basic concepts in financial economics and the role of finance in the operation of an economy.	Understand
CO 2	Students understand and analyse different investment theories and the structure of interest rate in the formulation of a project.	Understand & analyse
CO 3	Students understand the fundamentals of valuation of bonds and securities.	Understand & analyse
CO 4	Students understand risk and return and analyse various types of risks. They evaluate the measurement of risk and return of an asset, measurement of risk and return of a portfolio.	Understand & analyse
CO 5	Students analyse cost of capital and capital asset pricing model	Analyse
CO 6	Students explain derivatives and differentiate different derivatives like forward, future, options and swaps	Explain & differentiate
CO 7	Students analyse the derivative market and evaluate different derivatives for investment.	Analyse & evaluate
CO 8	Students watch the conditions of financial markets and analyse its impact in the economy	Watch media
CO 9	Students understand the operation of the Indian Financial System as a whole and find the place of financial assets in the market.	Understand

INTERNATIONAL ECONOMICS

No.	Course Outcomes	Cognitive Level
CO 1	Students identify the basic difference between inter-regional and international trade and understand how international trade has helped countries to acquire goods at cheaper cost, and explain it through the various international trade theories.	Identifying, explaining and analysing
CO 2	Students evaluate how international trade promotes economic	Evaluating

	development. Students compare and contrast different trade theories.	
CO 3	Students understand the ways in which free trade and restrictive trade policies could be practiced	Understanding
CO 4	Students identify the issues and prospects of current international trade order with respect to India and its major trade partners	Identifying
CO 5	Students understand the functioning of foreign exchange markets in the world	Understanding
CO 6	Students relate different exchange rate systems with the current systems of foreign exchange determination across the globe	Relating
CO 7	Students calculate the Balance of payments (BOPs) of nations and analyse different instruments to clear BOP disequilibrium	Calculating & analysing
CO 8	The students are expected to acquire skill that will help them to take rational decisions in issues related to international economics.	Developing skill
CO 9	Students understand the role of international agencies in promoting world trade and economic cooperation.	Understanding

DEVELOPMENT OF ECONOMIC THOUGHT

No.	Course Outcomes	Cognitive Level
CO 1	Students understand and generalize the development of economic thinking and economic analysis and explain the historical evolution of economic thought	Understanding & generalising
CO 2	Students understand developments in major field of economics and explain different Schools of thought in economics.	Understanding & explaining
CO 3	Students recognize some of the great economist from antiquity to contemporary times	Recognizing
CO 4	By the end of this course students identify the major ideas associated with each group or thinker studied, and thereby the origins of	Identifying

	contemporary theory are better comprehended	
CO 5	Students evaluate different streams of economic thinking as well some personalities who had a major impact on the history of economic thought	Evaluating
CO 6	Students identify theories that radically differ from modern mainstream theories of economics and thereby recognize that the theoretical basis of economics has been, and continues to be, contested.	Identifying
CO 7	Students analyse and differentiate the philosophy of physiocrats and mercantilism.	Analysing & differentiating
CO 8	Students analyse and appreciate the contribution of British political economy and the rise of socialism.	Analysing & appreciating
CO 9	Students appreciate early and modern Indian thoughts on economics.	Analysing & appreciating

ECONOMICS OF GROWTH AND DEVELOPMENT

No.	Course Outcomes	Cognitive Level
CO 1	Students understand the theoretical framework for growth and development discourses under different schools of economic thoughts and develop better insights and knowledge on issues and challenges on economic development.	Understanding
CO 2	Students analyze the factors affecting the long run economic growth, both from a positive and negative sense.	Analysing
CO 3	Students understand various theories of growth and development and analyze	Understanding

	the problems of the developing world.	&analysing
CO 4	Students differentiate growth and development and measures growth and development by using different techniques like HDI, HPI etc.	Differentiating
CO 5	Students develop attitudes towards the problems of underdevelopment and evaluate different policies and theories to overcome the issues of underdevelopment.	Evaluating
CO 6	Students analyse and evaluate Neoclassical growth models.	Analysing & evaluating
CO 7	Students identify the problems of poverty and inequality and analyse the measures and	Identifying & analysing
CO 8	Students internalize the concept of Sustainable development, identify various environmental issues and appreciate the values of sustainable development.	Identify & internalizing

RESEARCH METHODOLOGY

No.	Course Outcomes	Cognitive Level
CO 1	Students understand the importance of research methodology and its basic tools for understanding the social reality	Understanding
CO 2	Students understand different types of research and familiarize the student with the quantitative and qualitative strategies of research in social science.	Understanding
CO 3	Students understand the importance of literature review in the projects and review various journals and research papers for their projects.	Understanding & reviewing
CO 4	Students analyse various research design and methods	Analysing
CO 5	Students understand the methods of collecting data and analyse hypothesis.	Understanding
CO 6	Students report projects in a systematic way.	Reporting
CO 7	After completing this course the students prepare research projects and work with a research problem..	Conducting research

BASIC ECONOMETRICS

No.	Course Outcomes	Cognitive Level
CO 1	Students define econometrics and understand the basic econometric techniques and their applications.	Defining & Understanding
CO 2	Students analyse empirical work in economics and use actual economic data to test economic theories.	Analysing
CO 3	Students understand and analyse statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models etc	Understanding & analysing
CO 4	Students with foundation in econometric analysis, develop skills required for empirical research in economics	Analysing
CO 5	Students analyze and solve simple Linear Regression Model and theories related to it	Analysing & solving
CO 6	Students analyze two variable regression models and multiple regression models and apply these theories for the empirical analysis of data available to them	Analysing & applying
CO 7	Students analyse and solve Econometric Problems like Multicollinearity and Heteroskedasticity	Analysing & solving
CO 8	Students develop an attitude for conducting empirical works in economics and they appreciate the econometric works.	Conducting research

BA Econometrics and Data Management

Programme Outcomes:

The learners are expected to demonstrate the following:

- Critically evaluate and apply the theories and techniques of economics.
- Demonstrate subject-specific ‘thinking’ skills that are readily transferable to problem solving and decision making in a wider context.
- Enhance their lifelong learning, employing a range of practical and professional skills.
- Find, evaluate, synthesize and use information from a variety of sources
- Articulate an awareness of the social and community contexts within their disciplinary field

Course Outcome

Semester I

MICROECONOMICS – I

No.	Course Outcomes	Cognitive Level
CO 1	Students explain what economics is and explain why the subject is important	Explaining
CO 2	Students explain how economists use economic models	Explaining
CO 3	Students understand the scarcity and choice in the economy and the basic Problems of an economy.	Understanding
CO 4	Students explain and illustrate market equilibrium and disequilibrium.	Explaining & illustrating
CO 5	Students analyse how consumers maximize the total utility within a given income using the utility maximizing rule.	Analysing
CO 6	Students describe how consumer’s utility changes when income or price change.	Describing

CO 7	Students define the term production and explain what a production function is; define and differentiate between marginal, average and total product; compute and graph marginal, average and total product.	Defining & Explaining
CO 8	Students define and differentiate between different cost concepts and interpret the relation between long run and short run costs.	Defining & differentiating

Semester II

MACROECONOMICS I

No.	Course Outcomes	Cognitive Level
CO 1	Students appreciate the context in which Macroeconomics emerged as a separate discipline.	Appreciating
CO 2	Students understand the concepts regarding macroeconomic model building.	Understanding
CO 3	Students understand and evaluate different concepts and measurements of national income	Understanding & evaluating
CO 4	Students explain how output and employment are determined in classical and Keynesian systems of economics.	Explaining
CO 5	Students explain and analyse why actual output will fall short of the productive capacity of the economy.	Explaining & Analysing
CO 6	Students evaluate fiscal policies of Governments at different situations.	Evaluating
CO 7	Students understand and generalize the concept of money and money supply in the economy and evaluate monetary policy of different Governments.	Understanding & Generalising

Semester III

MATHEMATICAL METHODS FOR ECONOMICS-I

No.	Course Outcomes	Cognitive Level
CO 1	Students understand and demonstrate sound quantitative skills to collect analyse and interpret empirical data related to socio-economic issues.	Understanding & demonstrate
CO 2	Students understand the skill in statistical and mathematical techniques that are required for a meaningful study of applied economics and for carrying out empirical analysis.	understanding
CO 3	Students generalizes skills in quantitative analysis and apply it to study the concepts in most branches of economics	Generalizing & applying
CO 4	Students solve and analyse the data to solve economic issues	Solving & analysing

MICROECONOMICS II

No.	Course outcomes	Cognitive Level
CO 1	Students understand the difference between the firm and industry; explain and illustrate Demand curve, Average Revenue curve and Marginal Revenue curve of a perfectly competitive firm.	Understandig & explaining
CO 2	Students understand and determine the break-even and shut down points of production for a perfectly competitive firm; understand why perfectly competitive markets are efficient.	Understanding
CO 3	Students define and analyse the characteristics of monopoly and explain the sources of barriers to entry.	Defining & analysing
CO 4	Students explain why a monopoly is inefficient using dead weight loss; differentiate between a single price monopolist and a price discriminating monopolist.	Explaining & differentiating
CO 5	Students define the characteristics of a monopolistically competitive industry and explain the difference between short run and long run equilibrium in a monopolistically competitive industry.	Defining& Explaining

CO 6	Students define characteristics of oligopolies and explain why collusion can occur in oligopolistic industries.	Defining & Explaining
CO 7	Students explain pricing and employment of factor inputs and define demand for and supply of factor inputs.	Defining & Explaining
CO 8	Students explain equilibrium in competitive factor market and factor market with monopoly power.	Explaining

Semester IV

MATHEMATICAL METHODS FOR ECONOMICS-II

No.	Course Outcomes	Cognitive level
CO 1	Students understand the skill in the calculation of mathematical techniques that are required for a meaningful study of applied economics and other branches.	Understanding
CO 2	Students understand and demonstrate sound quantitative skills to collect analyse and interpret empirical data related to socioeconomic issues.	Understanding and solving
CO 3	Students understand and apply the concepts Derivatives and Marginal Concepts	Understanding and applying

MACROECONOMICS – II

No.	Course Outcome	Cognitive Level
CO 1	Students understand and derive IS-LM curves and use the framework to explain the working of an economy	Understanding & deriving
CO 2	Students explain the way fiscal and monetary policy works and apply the concept of ISLM framework.	Explaining & applying
CO 3	Students explain the concept and measurement of inflation and unemployment.	Explaining

CO 4	Students explain the trade-off between inflation and unemployment as predicted by the Phillips curve and its collapse after the stagflation of 1970s.	Explaining & predicting
CO 5	Students analyze different phases of trade cycle, and demonstrate various trade cycle theories	Analysing & demonstrating
CO 6	Students understand and analyse the reasons for economic recessions and suggest the appropriate instruments of monetary and fiscal policy.	Understanding & analysing
CO 7	Students measure the inflation in the economy and apply the concepts like WPI-CPI-PPI-GDP deflator.	Applying & calculating

Semester V

FISCAL ECONOMICS

No.	Course Outcome	Cognitive Level
CO 1	Students define and differentiate public finance and private finance and to generalize the concept of maximum social advantage	Defining & differentiating
CO 2	Students understand and explain the public expenditure and the effects and importance of public expenditure in India	Understanding & explaining
CO 3	Students understand the cost-benefit analysis and apply its principle in the day today economic life.	Understanding & applying
CO 4	Students understand various concepts of tax, explain the tax and non tax revenue and compare and contrast the direct tax and indirect tax and its benefits.	Understanding & explaining
CO 5	Students understand and develop the skill to calculate personal, corporate income tax and other taxes	Understanding & calculating
CO 6	Students explain the types of public debt and analyse how debt is repaid.	Explaining & analyzing
CO 7	Students describe government budget and budgeting and understand the different aspects of federal finance and local finance	Understanding & describing

CO 8	Students understand the federal finance, function of finance commissions and analyse Centre State financial relations	Understanding & analysing
CO 9	Students understand NITI Aayog and explain local finances and functions and revenues	Understanding & explaining

INDIAN ECONOMIC DEVELOPMENT

No.	Course Outcomes	Cognitive Level
CO 1	Students explain the growth and structural changes happened in Indian economy from British period to till date.	Explaining
CO 2	Students understand the background and programmes under new economic policy.	Understanding
CO 3	Students Understand the place of Agriculture, Industry and service sector in India's economy.	Understanding
CO 4	Students describe the causes and magnitude of poverty and unemployment in India.	Describing
CO 5	Students analyse various economic issues happening around us.	Analysing
CO 6	Students understand and evaluate numerical information relating to various aspects of Indian economy and India's economic policies.	Understanding & evaluating
CO 7	Students refer books related to Indian economy, collect clippings and articles from newspapers and magazines and also follow economic survey, economic review and RBI Bulletin.	Referring & collecting
CO 8	Students explore beyond the texts, conducts field visits and report economic events from field visits.	Exploring & visiting
CO 9	Students analyse the basic characteristics of Kerala economy and evaluate the Kerala model with other economies.	Analysing & evaluating

ECONOMIC THEORY AND DATA

No.	Course outcomes	Cognitive Level
CO 1	Students understand the basic sources of economic data, the structure, the scale of measurement, data reporting and data pulling/extracting exercises, data cleaning exercises, data treatment exercises etc.	Understanding & classifying
CO 2	Students use and apply data in solving problems related to economic issues	Understanding

BASIC ECONOMETRICS

No.	Course Outcomes	Cognitive Level
CO 1	Students define econometrics and understand the basic econometric techniques and their applications	Defining & Understanding
CO 2	CO 2 Students analyse empirical work in economics and use actual economic data to test economic theories.	Analysing
CO 3	Students understand and analyse statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models etc	Understanding & analysing
CO 4	Students with foundation in econometric analysis, develop skills required for empirical research in economics	Analysing
CO 5	Students analyze and solve simple Linear Regression Model and theories related to it	Analysing & solving
CO 6	Students analyze two variable regression models and multiple regression models and apply these theories for the empirical analysis of data available to them	Analysing & applying
CO 7	Students analyse and solve Econometric Problems like Multicollinearity and Heteroskedasticity	Analysing & solving
CO 8	Students develop an attitude for conducting empirical works in economics and they appreciate the econometric works.	Conducting research

Semester VI

APPLIED ECONOMETRICS

No.	Course Outcomes	Cognitive Level
CO 1	Students define econometrics and understand the basic econometric techniques and their applications	Defining & Understanding
CO 2	Students analyse empirical work in economics and develop regression models to solve economic problems empirically	Analysing and applying

INTERNATIONAL ECONOMICS

No.	Course Outcomes	Cognitive Level
CO 1	Students identify the basic difference between inter-regional and international trade and understand how international trade has helped countries to acquire goods at cheaper cost, and explain it through the various international trade theories.	Identifying, explaining and analysing
CO 2	Students evaluate how international trade promotes economic development. Students compare and contrast different trade theories.	Evaluating
CO 3	Students understand the ways in which free trade and restrictive trade policies could be practiced	Understanding
CO 4	Students identify the issues and prospects of current international trade order with respect to India and its major trade partners	Identifying
CO 5	Students understand the functioning of foreign exchange markets in the world	Understanding
CO 6	Students relate different exchange rate systems with the current systems of foreign exchange determination across the globe	Relating
CO 7	Students calculate the Balance of payments (BOPs) of nations and analyse different instruments to clear BOP disequilibrium	Calculating & analysing

CO 8	The students are expected to acquire skill that will help them to take rational decisions in issues related to international economics.	Developing skill
CO 9	Students understand the role of international agencies in promoting world trade and economic cooperation.	Understanding

Applied Financial Economics

No.	Course Outcomes	Cognitive Level
CO 1	Students understand the basic concepts in financial economics and the role of finance in the operation of an economy.	Understand
CO 2	Students understand and analyse different investment theories and the structure of interest rate in the formulation of a project.	Understand & analyse
CO 3	Students understand the fundamentals of valuation of bonds and securities.	Understand & analyse
CO 4	Students understand risk and return and analyse various types of risks. They evaluate the measurement of risk and return of an asset, measurement of risk and return of a portfolio.	Understand & analyse
CO 5	Students analyse cost of capital and capital asset pricing model	Analyse
CO 6	Students explain derivatives and differentiate different derivatives like forward, future, options and swaps	Explain & differentiate
CO 7	Students analyse the derivative market and evaluate different derivatives for investment.	Analyse & evaluate
CO 8	Students watch the conditions of financial markets and analyse its impact in the economy	Watch media

ECONOMICS OF GROWTH AND DEVELOPMENT

No.	Course Outcomes	Cognitive Level
CO 1	Students understand the theoretical framework for growth and development discourses under different schools of economic thoughts and develop better insights	Understanding

	and knowledge on issues and challenges on economic development.	
CO 2	Students analyze the factors affecting the long run economic growth, both from a positive and negative sense.	Analysing
CO 3	Students understand various theories of growth and development and analyze the problems of the developing world.	Understanding & analysing
CO 4	Students differentiate growth and development and measures growth and development by using different techniques like HDI, HPI etc.	Differentiating
CO 5	Students develop attitudes towards the problems of underdevelopment and evaluate different policies and theories to overcome the issues of underdevelopment.	Evaluating
CO 6	Students analyse and evaluate Neoclassical growth models.	Analysing & evaluating
CO 7	Students identify the problems of poverty and inequality and analyse the measures and	Identifying & analysing
CO 8	Students internalize the concept of Sustainable development, identify various environmental issues and appreciate the values of sustainable development.	Identify & internalizing

RESEARCH METHODOLOGY

No.	Course Outcomes	Cognitive Level
CO 1	Students understand the importance of research methodology and its basic tools for understanding the social reality	Understanding
CO 2	Students understand different types of research and familiarize the student with the quantitative and qualitative strategies of research in social science.	Understanding
CO 3	Students understand the importance of literature review in the projects and review various journals and research papers for their projects.	Understanding

		&reviewing
CO 4	Students analyse various research design and methods	Analysing
CO 5	Students understand the methods of collecting data and analyse hypothesis.	Understanding
CO 6	Students report projects in a systematic way.	Reporting
CO 7	After completing this course the students prepare research projects and work with a research problem..	Conducting research

DEPARTMENT OF MICROBIOLOGY

M.Sc Microbiology

PROGRAMME SPECIFIC OUTCOME

PSO1. Gain in-depth understanding of various aspects of microbiology pertaining to medical, agricultural, environmental and industrial applications.

PSO2. Familiarized with latest and advanced research tools and techniques pertaining to biology.

PSO3. Analysis of scientific issues across the spectrum of related disciplines.

PSO4. Acquire skills specific to microbiology and allied fields for converting information to knowledge through hypothesis, design, execution and analysis.

PSO5. Design experiments to prove scientific process and to synthesize product/ services for the benefit of community.

PSO6. Ability to retrieve biological information through data mining and data handling.

PSO7. Ability to present their work through written, oral, and visual presentations, including an original research proposal.

PSO8. Enable the students to improve the quality of human lives in relation to environment with the knowledge in microbiology.

PSO9. Capacity to work as a member of team upholding the essence of collaboration, cooperation, ethics and integrity.

PSO10. Ability to upgrade knowledge independently and act upon means of improvement for lifelong learning.

B.Sc Microbiology

PROGRAMME OUTCOMES (POS)

PO1- Acquire knowledge about the fundamental principles and scientific theories related to various scientific phenomena in day-to-day life.

PO2- To develop communication skills and get expertise in scientific writing.

PO3- Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.

Equip them with the skills to think creatively and draw logical inferences from the scientific experiments to draw the objective conclusions or provide new solutions to the problems.

To make them Capable of working effectively in diverse teams in both classroom, laboratory and in industry and field-based situations.

PO4- To get an awareness of the impact of science on the environment and society.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

PSO1- Gain integrated knowledge on different aspects of microbiology, biochemistry, biostatistics and computer applications bioinformatics and emerging worldwide microbiological technologies, issues, and perspectives.


PSO2 -Acquire skills specific to microbiology and allied fields for converting information to knowledge through hypothesis, design, execution and analysis.


PSO3 -Analysis of scientific issues across the spectrum of related disciplines.

PSO4- Enable the students to improve the quality of human lives in relation to the environment with the knowledge in microbiology.

PSO5- Capacity to develop, employ and integrate technical and professional skills as a member of a team upholding the essence of collaboration, cooperation, ethics




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Pulpally(P.O), Wayanad**



Principal
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MBG1B01. GENERAL MICROBIOLOGY

Course Outcome:

CO1: Sketch the historical events in the developments of Microbiology as a discipline emphasizing the contributions of the scientists.

CO2: Compare the difference between the basic cell types viz, Eukaryote, Prokaryote, Virus, Actinomycetes and Archaeobacteria.

CO3: Describe the ultra structure of a bacterial cell helping to study the further biochemical and physiological reactions inside the cell.

CO4: Discuss various microscopes and compare the different types of light and electron Microscope.

CO5: Explain the various staining techniques and to distinguish their application in Microbiology.

CO6: Discuss the sterilization procedures and to implement it to maintain a hygienic environment

MBG2B02. MICROBIAL PHYSIOLOGY AND TAXONOMY

Course Outcomes:

CO1: Discuss the environmental and nutritional factors affecting the microbial growth and classify them according to these.

CO2: Describe the mechanism of nutrient transportation across the bacterial membranes.

CO3: Explain the preparation of various cultural media and to distinguish them for microbial cultivation

CO4: Differentiate various cultural methods and preservation techniques

CO5: Illustrate the reproduction systems and the growth phases of bacteria and bacteriophages

CO6: Examine various methods for estimation of microbial cells.

CO7: Analyze the taxonomy of microorganisms through the comparative study of various criteria used and classify them into corresponding groups.

MBG3B03. ENVIRONMENTAL AND SANITATION MICROBIOLOGY

Course Outcomes:

CO1: Describe the organisms in air with their sources and distribution

CO2: Explain the methods of waste water treatment, air sampling, solid waste management, bioremediation and bioleaching

CO3: Discuss the microbial distribution in aquatic environment with special emphasis on factors affecting them

CO4: Compare the water purification procedures and the tests for the microbiological examination of water

CO5: Explain air borne and water borne diseases with their mode of transmission

CO6: Discuss the concept of xenobiotics and related environmental problems

MBG4B04. SOIL AND AGRICULTURAL MICROBIOLOGY

Course Outcomes:

CO1: Recall different types of soils and soil properties

CO2: Distinguish the different groups of microorganisms present in soil and t factors affecting their growth.

CO3: Describe the concept of ecosystem and its components and concept of biogeochemical cycles and N, S and P cycles.

CO4: Differentiate different types of biological interactions such as microbe-microbe, plant-microbe and animal-microbe

CO5: Explain the symptoms, disease cycle and control measures of different bacterial,viral and fungal diseases of plants

CO6: Discuss the potential of different microorganisms in agriculture as biofertilizers and biopesticides

MBG5B06. INDUSTRIAL MICROBIOLOGY

Course Outcomes:

CO1: Describe basic concepts of a fermentation process with various types

CO2: Discuss the media formulations and their significance in fermentation process.

CO3: Explain different methods for screening, isolation, improvement of strain, upstream processing and downstream processing of industrially important microorganisms and products.

CO4: Compare various techniques used for the recovery of fermentation products.

CO5: Demonstrate industrial production of microbial metabolites.

CO6: Discuss different intellectual property rights related to microbial products.

MBG5B07. FOOD AND DAIRY MICROBIOLOGY

Course Outcomes:

- CO1: Memorize the types and importance of microbes that exist in different food items and understand different parameters affecting their growth in food.
- CO2: Explain major methods to detect microbes in food, with special importance to contaminants
- CO3: Illustrate the physical and chemical properties of milk and types of microorganisms present in milk.
- CO4: Differentiate different methods used for the microbiological examination of milk.
- CO5 :Acquire in-depth knowledge about microbial production of fermented dairy and non-dairy food products and understand the health benefits of SCP, probiotics and prebiotics
- CO6: Gain an insight to the microbial spoilage of different kinds of foods.
- CO7: Discuss major food borne diseases caused by different groups of microorganisms
- CO8 :Explain preservation of food by various physical and chemical methods
- CO9: Discuss the concept of quality control in food, regulatory practices and policies

MBG5B08. IMMUNOLOGY

Course Outcomes:

- CO1: Explain the biological functions of various immune cells and organs
- CO2: Recognize the cellular coordination in the generation of immune responses
- CO3: Illustrate the types, structure and basic features of antigen and antibody.
- CO4: Demonstrate the significance of MHC, C system and immunological tolerance.
- CO5: Classify antigen-antibody reactions involved in diagnosis of infections.
- CO6 :Describe the types and mechanisms of hypersensitivity, autoimmunity and graft rejection reactions Discuss the causes, molecular mechanisms, immunological responses and treatment options of tumor development.

MBG5B09. MEDICAL MICROBIOLOGY I

Course Outcomes:

- CO1: Explain the concept of infection, its types, sources and the mode of transmission of various diseases.
- CO2: Discuss the methods for collection and transportation of clinical samples.

CO3: Compare the morphology, cultural and biochemical characteristics, pathogenesis, laboratory diagnosis, treatment and prophylaxis of various bacterial diseases.

MBG6B10. GENETICS AND GENETIC ENGINEERING

Course Outcomes:

CO1: Summarize the mendelian and non mendelian concepts inheritance

CO2: Explain the concepts of linkage, crossing over and recombination

CO3: Illustrate the cell cycle events and its regulation mechanisms in eukaryotes

CO4: Demonstrate the recombination frequency as a tool of gene mapping in eukaryotes and gene transfer techniques as a tool in prokaryotes.

CO5 :Describe the pathways of cell cycle and their regulation strategies adopted by eukaryotic cells.

CO6: Discuss the molecular mechanisms behind the programmed cell death and the inter-relation of death pathway with the cell cycle and immune response.

CO7: Explain the principle behind rDNA technology, DNA sequencing, PCR and their applications in biological sciences.

CO8: Discuss the development of GMOs and its potential risks and benefits on the environment

CO9: Critical & ethical analysis of application r DNA technology in our society

MBG6B11. MEDICAL MICROBIOLOGY II

Course Outcomes:

CO1: Discuss the important viral diseases including emerging viral diseases, with special emphasis on symptoms, pathogenesis, transmission and prophylaxis.

CO2: Analyze symptoms, pathogenesis, transmission, prophylaxis and control of important fungal diseases of humans including emerging fungal diseases

CO3: Explain important protozoan diseases of humans such as malaria ,amoebiasis and helminth infections and infections caused by flagellates

CO4: Compare different types of vaccines and their routes of administration

CO5: Distinguish antibiotics classes, their mode of action and mechanism of antibiotic resistance.

MBG6B15 (E1). CELL AND TISSUE CULTURE

Course Outcomes:

CO1: Describe how a plant & animal cell culture lab should be designed and maintained.

CO2: Demonstrate the concept of tissue culture technique for plant regeneration and its application in developing plantlets of specific characteristics.

CO3: Describe methods to determine cell cytotoxicity which in turn can be used to validate drugs and cosmetics for their side effects (toxicity).

CO4: Discuss the basics of stem cells, their characterization and applications

MBG6B15 (E2). MOLECULAR BIOLOGY

Course Outcomes:

CO1: Demonstrate the structure, function and other basic features of DNA and RNA

CO2: Analyze the organization of genetic material by means of proteins and topological properties.

CO3: Conceptualize the theme of central dogma of molecular biology by discussing the events, enzymes and mechanisms of replication, transcription and translation

CO4: Illustrate the gene expression regulation mechanisms in prokaryotes by means of lac and trp operons.

MBG6B15 (E3). BIOINSTRUMENTATION

Course Outcomes:

CO1: Describe the principles and applications of various techniques in life sciences such as Spectrophotometer, pH Meter, Electrophoresis, NMR, Biosensors, Centrifugation, Chromatography and Radio Isotope techniques used in the isolation, purification and analysis of biomolecules

CO2: Describe various Spectroscopic and Chromatographic techniques

CO3: Characterize the given sample using bioanalytical techniques

CO4: Apply the concepts of modern analytical and instrumental techniques relevant to quantitative measurements in life sciences.


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UNIVERSITY OF CALICUT
BACHELOR OF TRAVEL AND TOURISM MANAGEMENT (BTTM)

Programme Outcomes

1. [PO1] Critical Thinking
2. [PO2] Problem Solving
3. [PO3] Computational Thinking
4. [PO4] Effective Communication
5. [PO5] Social Interaction
6. [PO6] Effective Citizenship
7. [PO7] Global Perspective
8. [PO8] Ethics
9. [PO9] Environment and Sustainability
10. [PO10] Self-directed and Life-long Learning

Programme Specific Outcomes

1. PSO1: Describe the concepts, theories and practices in the realm of tourism
2. PSO2: Demonstrate the knowledge and ability to identify and develop a new enterprise in tourism
3. PSO3: Analyze critically the growth and development of Tourism
4. PSO4: Demonstrate the knowledge and ability to identify and pursue career options in the area of travel, tourism and hospitality.
5. PSO5: Interpret the sustainability concerns in the realm of tourism
6. PSO6: Make use of statistics and technology for the efficient operations and management of travel, tourism and hospitality organisations.
7. PSO7: Identify the resources suitable for developing attractiveness of tourism in the country
8. PSO8: Comprehend the operations, functions and management of tourism industries

Course Outcomes

TTM1B01 Principles and Practices of Tourism

Course outcomes

After studying each of the following course, the student will be able to:

1. Summarize the evolution of modern tourism.
2. Comprehend the concept and classification of tourism.
3. Appraise the concept of tourism demand and travel motivations.
4. Explain the structure of tourism industry and the interrelationship among the elements within it.
5. Analyse the role of different organizations in the development of tourism

TTM1C01: Business Statistics and Information Technology I

Course outcomes

After studying each of the following course, the student will be able to:

1. Set operations, matrix and Mathematics of finance
2. Identify statistical tools used in business activities
3. Utilize statistical tools in solving business issues and studies
4. Explain the basics of computer applications in businesses

TTM2B02 Tourism Products

1. Explain the types and features of tourism resources

<ol style="list-style-type: none"> 2. Identify different typology of Tourism. 3. Differentiate between different types of tourism 4. Elucidate the role of transport in tourism
TTM2C02: Introduction to Accountancy and Business law I
<p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the basic Accounting Concepts and Recent Developments in Accounting. 2. Demonstrate the skill in solving accounting problems related to tourism and other industries.
TTM3B03: Air transportation and Airport Operations
<p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Create a systematic and extensive knowledge in aviation industry. 2. Summarize the stages in the evolution of modern air transportation 3. Explain the concept and structure of an airport 4. Explain passenger handling and baggage handling formalities 5. Describe various airport operations in an international travel.
TTM3B04: Indian Tourism Resources
<p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Distinguish between different types of tourism attractions 2. Identify natural and cultural tourism resources in India 3. Evaluate the strengths and weaknesses of tourism resources in Kerala
TTM3C03: Introduction to Accountancy and Business law II
<p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the basic legal concepts and the Indian Legal Environment in which business is carried on. 2. To identify the emerging legal issues regarding tourism and related industries.
TTM4B05 Travel Geography
<p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Apply the theory of time calculation in international travel 2. Interpret the role of geography in air transport 3. Identify the codes of major cities and airports 4. Evaluate the attractiveness of major tourist destinations in the world 5. Locate cities within the political maps of the world
TTM4B06: Introduction to Hospitality Business
<p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Comprehend the concept and the evolution of hospitality 2. Describe organization structure of a hotel 3. Compare the types of Hotels 4. Identify the emerging trends in the hospitality industry 5. Explain the nature of classification in the hospitality industry
TTM6B12 Marketing for Tourism and Hospitality
<p>Course outcomes</p>

<p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Comprehend the basic terms of Marketing Management 2. Develop innovative marketing methods in Tourism Development 3. Make use of the promotion methods as part of marketing of tourism products 4. Elucidate the concept of service marketing and the trends within it
<p style="text-align: center;">TTM4C04: Business Statistics and Information Technology II</p> <p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Apply basic statistical tools like descriptive statistics, regression, correlation in data analysis in business and tourism research 2. Describe the concept of information systems 3. Comprehend the applications of information and communication technology in the tourism sector
<p style="text-align: center;">TTM5B07: Travel Agency and Tour Operations Management</p> <p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the operations and functions in a travel agency 2. Comprehend the concept of tour operation 3. Apply the principles and strategies of marketing in order to promote tour products 4. Illustrate the activities involved in tour designing and execution 5. Interpret the role of tour guide in tour operation
<p style="text-align: center;">TTM5B08: Accommodation Operation</p> <p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Analyze the operations in a large hotel 2. Explain the functions in front office, housekeeping and F&B departments of a Hotel. 3. Make use of promotion strategies to market a hotel
<p style="text-align: center;">TTM5B09: Tourism Research Methodology</p> <p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Describe the basic concepts of research 2. Make use of the concepts and methods of research. 3. Organize the primary and secondary data collection. 4. Evaluate various statistical tools used in tourism research 5. Distinguish the qualitative and quantitative research approaches. 6. Apply different research methods on tourism issues 7. Apply data analysis tools on tourism studies
<p style="text-align: center;">TTM5B10: Airline and Cargo Management</p> <p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Explain the concept and types of airlines. 2. Comprehend various airline planning and operations 3. Identify types of air journeys 4. Calculate airfares depending upon various journey types and issue tickets. 5. Elucidate the nature of cargo transportation
<p style="text-align: center;">TTM5B11: Principles and Practices of Management</p> <p>Course outcomes</p> <p>After studying each of the following course, the student will be able to:</p>

<ol style="list-style-type: none"> 1. Describe the concept of management and planning in business organisations 2. Compare the different types of strategies of business organisations 3. Describe the process of management in business organizations 4. Apply various management principles and practices in managing tourism enterprises 5. Explain the human resource management process
TTM5D01: Tourism and Hospitality Management
<p>Course outcomes After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Comprehend the concept and the evolution of hospitality 2. Describe organization structure of a hotel 3. Compare the types of Hotels 4. Identify the emerging trends in the hospitality industry 5. Explain the nature of classification in the hospitality industry
TTM6B12: Marketing for Tourism and Hospitality
<p>Course outcomes After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Comprehend the basic terms of Marketing Management 2. Develop innovative marketing methods in Tourism Development 3. Make use of the promotion methods as part of marketing of tourism products 4. Elucidate the concept of service marketing and the trends within it
TTM6B13: Tourism Planning and Policies
<p>Course outcomes After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Interpret the concept of Destination in Tourism 2. Analyze the pros and cons of tourism on nature, society and culture. 3. Apply the concept of sustainability in tourism 4. Examine the nature and types of planning in tourism 5. Discuss the scope of policies in tourism 6. Identify tourism policies in the Indian context
TTM6B14: Emerging Concepts in Tourism
<p>Course outcomes After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Identify the emerging concepts in the parlance of tourism in the world 2. Compare the alternative tourism types 3. Evaluate the implementation of responsible tourism in Kerala
ELECTIVES
TTM6B15: Event Management and MICE Tourism
<p>Course outcomes After studying each of the following course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Comprehend concepts of events and their role in tourism. 2. Distinguish different types of events. 3. Analyze the event cycle managing events 4. Describe the stages in managing an event successfully 5. Identify the entrepreneurial opportunities in event management
TTM6B16: Resort and Recreation Management
<p>Course outcomes After studying each of the following course, the student will be able to:</p>

1. Comprehend the concept of resorts
2. Describe planning and development of resorts
3. Analyze the operations in resort properties
4. Apply the idea of relationship management in the context of resorts
5. Interpret the relevance of significance in hospitality

TTM6 B17: Medical and Wellness Tourism

Course outcomes

After studying each of the following course, the student will be able to:

1. Differentiate between health, medical and wellness tourisms
2. Identify the health tourism practices in India
3. Recognize the classification and accreditations in health tourism in India


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Affiliated to University of Calicut

Reaccredited by NAAC with A+ Grade

PROGRAMME OUTCOME 2023-24

Name of the programme: English Language and Literature

- Studying English Language and Literature empowers students to enhance their intellectual abilities such as problem-solving, conceptual comprehension, and critical differentiation. Additionally, it fosters the development of cognitive strategies for learning, analysis, critical thinking, and practical application of knowledge.
- In the academic year 2023-23, there were 29 students in the final year, and 25 of them appeared for the university exams.
- Out of the 25 students, 16 of them completed the course and passed with more than 45% of the marks.
- The pass percentage of the final year students in the academic year 2023-24 is 64%.
- Majority of them are currently engaged in higher education, while others are self-employed.
- The programme facilitated the enhancement of students' skills in the English language and communication abilities.

B.A. PROGRAMME ENGLISH LANGUAGE AND LITERATURE (CHOICE BASED CREDIT SEMESTER SYSTEM –CBCSS UG)

Programme Outcomes

By the study of English Language and Literature, a student will develop the intellectual skills of problem solving, concrete concept, defined concept, discrimination and rule. The students will also develop cognitive strategies for learning, analysing, thinking and applying knowledge. By the end of the programme, the students:

- will understand the history as well as the structure and function of English language and develop language skills for communication and for creative expression.
- will be able to collect, understand, process, evaluate and synthesize information from a variety of sources.
- will learn and differentiate concepts about representative literary and cultural texts of different genres within the historical, geographical, and cultural contexts.
- will be able to understand critical and theoretical approaches to literature and apply them to the reading and analysis of literary and cultural texts.
- will identify, analyse, interpret and describe the wide spectrum of critical ideas, values, and themes that appear in literary and cultural texts and understand how they inform and impact the world they live in.
- will attempt at writing analytically in a variety of formats, including different types of essays, research papers, reflective and critical writing.
- will understand and assimilate the process of communicating and interpreting human experiences through literary representation using historical contexts and disciplinary methodologies
- will acquire such values and ideals that a citizen of a modern secular democratic state need to have.

Programmes Specific Outcomes

- PSO1: Understand and differentiate between different types, canons, movements and contexts of literature
- PSO2: Develop and apply advance language skills both in and outside classroom.
- PSO3: Develop analytical ability and critical thinking
- PSO4: Assimilate literary theory and learn to connect text with its multiple contexts
- PSO 5: Critically examine the wide range of perceptions that exist in society through literary texts and thus imbibe a sense of democratic co-existence.


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Course Outcome

Part I

CORE COURSES

SEMESTER—I

COURSE CODE—ENG1B01

TITLE OF THE COURSE—INTRODUCING LITERATURE

COURSE OUTCOME

After the completion of the course students should be able to:-

- Differentiate between with the different aspects of the language of literature.
- Discover the linguistic structures of poetic texts.
- Distinguish diverse points of view within a single text and locate the rationale of polyphony.
- Determine and interpret the dominant voice/s within the text and its agendas.
- Discriminate marginalized voices and determine themselves to the voices of the child, Dalit, transgender and female.

SEMESTER—II

COURSE CODE— ENG2B02

TITLE OF THE COURSE— APPRECIATING POETRY

COURSE OUTCOME

After the completion of the course students should be able to:-

- Outline the basic elements of poetry, the stylistic and rhetorical devices and various genres of poetry.
- Analyze and identify the trends in poetry and the linguistic structures of poetic texts.

- Discover various perspectives in reading poetry like gender, race, caste, ethnicity, religion, region, environment and nation.
- Define different forms of poetry in British and American literature and classify different forms and themes of poetry across the globe in the history of literature.
- Appreciate poetry as an art form.

SEMESTER -III

COURSE CODE: ENG3B03

TITLE OF THE COURSE—APPRECIATING PROSE

COURSE OUTCOME

After the completion of the course students should be able to:-

- Develop critical thinking.
- Interpret and appreciate different types of prose.
- Identify different styles of prose writing and understand the use of literary devices.
- Identify, analyze, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts
- Develop creative writing skills.

COURSE CODE: ENG3B04

TITLE OF THE COURSE -- ENGLISH GRAMMAR AND USAGE

COURSE OUTCOME

After the completion of the course students should be able to:-

- Determine the key concepts of English grammar and to apply them more sensitively in their day-to-day communication needs.

- Manipulate the language in a better way by understanding of the sentence patterns in English.
- Develop a sense of English grammar, idioms, syntax, semantics and their usage
- Develop the logical and analytical skills in the use of language for communication.
- Appraise contemporary English usage.

SEMESTER –IV

COURSE CODE: ENG4B05

TITLE OF THE COURSE -APPRECIATING FICTION

COURSE OUTCOME

After the completion of the course students should be able to:-

- Develop critical thinking and imagination through long and short fiction
- Interrelate cultural diversity through different representative samples of fiction.
- Discover the pleasures in reading fiction.
- Critique human condition and the complexities of life.
- Discover different types of fiction and analyze them.

COURSE CODE: ENG4B06

TITLE OF THE COURSE- LITERARY CRITICISM

COURSE OUTCOME

After the completion of the course students should be able to:

- Differentiate between judgment and appreciation.
- Identify various movements and schools of thought
- Critique plays, passages and poems

- Recognize the history and principles of literary criticism since Plato
- Develop the philosophical and critical skills with which literature can be appreciated.
- Appraise important texts and movements in the history of literary criticism.
- Demonstrate how literary criticism shapes literature and culture across centuries.
- Recognize and critique the major arguments underlying critical writings.
- Compare and contrast critical perspectives of Indian Poetics and Western critical concepts.

SEMESTER V

COURSE CODE- ENG5B07

TITLE OF THE COURSE-APPRECIATING DRAMA AND THEATRE

COURSE OUTCOME

After the completion of the course students should be able to:-

- Establish and illustrate the basic elements of drama, including the historical progress of drama in different continents.
- appreciate drama as an art form.
- Identify the different genres and masters of drama.
- Assess the theatrical performances and the texts and evaluate them critically from various standpoints.
- Explain the insights, conventions and experimentations associated with English Drama.
- Demonstrate how writers use the resources language as a creativity
- Point out the entire range of human experience through drama as a literary form

COURSE CODE -ENG5B08

TITLE OF THE COURSE -LITERARY THEORY

COURSE OUTCOME

After the completion of the course students should be able to:-

- Develop an understanding of important texts and movements in the history of literary theory.
- Critique literature and culture in the context of theory
- Develop various perspectives of thinking and critique the major arguments presented in theory.
- Construct a pluralistic perspective of culture and literature in a multicultural society.
- Identify, analyze, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts.
- Identify the origin of critical ideas in literature
- Define the function of criticism.

COURSE CODE - ENG5B09

TITLE OF THE COURSE -LANGUAGE AND LINGUISTICS

COURSE OUTCOME:

After the completion of the course students should be able to:-

- Recognize key concepts of Linguistics and develop awareness of latest trends in Language Study
- Point out the features of languages, their sounds, their ways of forming words, their sentence structures, and their systems of expressing meaning.
- Examine through an objective study the relation of language with human mind and communicative action

- Operate the features of pronunciation and their general standards in every day conversation and in reading.
- Develop a sense of English syntax and will be able to provide complete syntactic analyses for sentences of English
- Develop a sense of awareness of principles of language that govern the distribution of morphology and how morphology interacts with other components of language.
- Recognize the fundamental topics in semantics and develop a concept of different semantic levels.

COURSE CODE - ENG5B10

TITLE OF THE COURSE -INDIAN WRITING IN ENGLISH

COURSE OUTCOME:

After the completion of the course students should be able to:-

- Correlate the various phases of the evolution of Indian writing in English.
- Delineate the thematic concerns, genres and trends of Indian writing in English.
- Recognize the pluralistic aspects of Indian culture and identity.
- Determine how and why Indian literature emerged as a distinct field of study.
- Identify the development of history of Indian English literature from its beginning to the present day.
- Interpret the works of great writers of Indian writers in English.
- Demonstrate, through discussion and writing, an understanding of significant cultural and societal issues presented in Indian English literature.

SEMESTER -VI

COURSE CODE - ENG6B11

TITLE OF THE COURSE -VOICES OF WOMEN

COURSE OUTCOME:

After the completion of the course students should be able to:-

- Generalize and infer on what grounds women's writings can be considered as a separate genre.
- Interpret texts written by Women writers across different cultures.
- Differentiate between sex and gender and how the latter is a social construction.
- Identify the issues and concerns of the women writers of the developed, developing and under-developed countries.
- Identify the misconceptions regarding women and to evolve a human perspective about them.
- Develop a keen interest in analysing critically the diversity of women's experiences across the world and to marvel at their creative skills.

COURSE CODE-- ENG6B12**TITLE OF THE COURSE --CLASSICS OF WORLD LITERATURE****COURSE OUTCOME:**

After the completion of the course students should be able to:-

- Identify the classic literature and thereby composite cultures of the world
- Develop cross cultural perspectives
- Classify literary texts in English or English translation in terms of their main stylistic and thematic features.
- Describe the literary, historical, social and cultural backgrounds of these texts.
- Identify some of the main theoretical and methodological issues involved in reading World Literature.

COURSE CODE ENG6B13**TITLE OF THE COURSE- FILM STUDIES**

COURSE OUTCOME:

After the completion of the course students should be able to:-

- Appraise film as an art form and its aesthetics.
- Relate and connect film with history, politics, technology, psychology and performance.
- Appraise the nature of representation on screen and how class, race ethnicity and sexuality are represented.
- Develop analytical skills so that the student can produce informed and thorough close readings of films.
- Discover the articulation of a film's content, form and structure.
- Identify and define the formal and stylistic elements of film.
- Develop an understanding of film language and terminology, and analyze the ways in which that this language constructs meaning and ideology.
- Identify and interpret significant film movements and key concepts.
- Point out the diverse forms of the moving image, including, for example, the feature film, experimental and avant-garde cinema, video art and moving image installation, television and digital media.

COURSE CODE- ENG6B14

TITLE OF THE COURSE -NEW LITERATURES IN ENGLISH

COURSE OUTCOME:

After the completion of the course students should be able to:-

- Distinguish diverse cultures and modes of expression.
- Discuss issues of cultural plurality and hybridity
- Identify literary negotiations of colonization and decolonization, identity, inequality, marginalization and so on.

- Point out the canon of English literature, Commonwealth literature, Post Colonialism and the context of New Literatures

ELECTIVES

COURSE CODE ENG6B20

TITLE OF THE COURSE— SHAKESPEARE

COURSE OUTCOME:

After the completion of the course students should be able to:-

- Read and appreciate the works of Shakespeare
- Develop awareness about the universal appeal and the literary charm of Shakespeare's works
- Develop knowledge about drama, practice of drama performance and the literary sensibility of different ages with regards to the Shakespearean Canon
- Identify the cultural and political positions of Shakespeare and develop her own sense of critiquing a classical text.

OPEN COURSES

TITLE OF THE COURSE: ENGLISH FOR COMPETITIVE EXAMINATIONS

COURSE CODE ENG5D01

COURSE OUTCOME

After the completion of the course students should be able to:-

- Identify the important skills necessary for professional development
- Develop necessary linguistics skills those are relevant in English
- Appraise important aspects necessary for language development
- Recognize the importance of getting prepared for competitive exams

PROJECT WORK

PROJECT

COURSE CODE ENG6B21

COURSE OUTCOME

After the completion of the Project work students should be able to:-

- Demonstrate knowledge of and an ability to conduct research work in the several areas related to language and literature.
- identify, define and demonstrate the research problem
- Create original research projects which assess the contributions and/or complexities of a selected writer, literary movement, aspects of language etc.
- Assess, critique, evaluate a project work and construct meaningful tools for it



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