COURSE OBJECTIVES & OUTCOMES

UNDERGRADUATE PROGRAMME

PROGRAMME EDUCATIONAL OBJECTIVES

PEO 1: To demonstrate a solid understanding of core economic concepts, theories, and frameworks of all the streams of Economics.

PEO 2: To develop the ability to collect, analyse, and interpret economic data using statistical and econometric tools among the students.

PEO 3: To prepare students to apply logical reasoning and critical thinking to evaluate economic issues, policies, and practices.

PEO 4: To develop research competence among students.

PEO 5: To develop an understanding regarding to assess and critique the economic policies, their implications for various stakeholders and the broader economy.

PEO 6: To develop communication proficiency of economic concepts among the students.

PEO 7: To develop an interdisciplinary insight among the students to recognize and analyse the connections between economics and other fields, such as politics, sociology, and environmental studies.

PEO 8: To promote global economic awareness.

PEO 9: To instil an understanding of the ethical implications of economic decisions.

PEO 10: To prepare students to be adaptable in a rapidly changing economic environment

PROGRAMME OUTCOMES

PO1: Understanding Core Economic Theories and Applications: Students will develop a strong foundation in key economic theories related to consumer behaviour, firm decision-making, market dynamics, and macroeconomic aggregates like GDP, inflation, and employment. They will be able to apply these theories to real-world economic problems and policy questions.

PO2: Proficiency in Data Analysis and Econometrics: Students will acquire the ability to analyse and interpret economic data using statistical and econometric techniques. This includes proficiency in software tools (such as Excel, SPSS, R, or STATA) for data analysis and the ability to draw meaningful inferences from empirical data.

PO3: Critical Thinking and Quantitative Problem-Solving: Students will develop the ability to think critically about economic issues, using both qualitative and quantitative methods to solve problems. This involves applying logical reasoning and data interpretation to assess different economic scenarios and predict outcomes.

PO4: Development of research competence: Students will develop the skills to design, conduct a research using appropriate methodologies, critically analyze data and effectively present their findings.

PO5: Understanding and Evaluating Public Policy: Students will be able to critically evaluate the effectiveness of government policies, especially in areas like taxation, welfare, healthcare, education, and trade. They will learn how policy decisions impact economic growth, inequality and social welfare.

PO6: Effective Communication: Students will communicate economic concepts and analyses clearly and effectively to diverse stakeholders, both verbally and in written formats.

PO7: Development of Interdisciplinary insight: Students will integrate concepts from other disciplines, such as political science, sociology, environmental science, and law, into the economic

concepts. They will apply interdisciplinary approaches to solve complex global issues.

PO8: **Global Economic Trends and Policy Analysis:** Students will be trained to understand and assess global economic trends, such as international trade flows, foreign investment and exchange rate movements. They will learn to analyse how these trends affect local economies and influence global economic governance.

PO9: **Ethical Issues and Social Responsibility in Economics**: Students will be aware of the ethical implications of economic decisions, especially in the areas of resource allocation, labour markets, and social justice. They will understand the responsibility of economists to promote sustainable and inclusive economic growth.

PO10: Preparedness for Professional Careers and Further Studies: The program will equip students with the analytical, communication, and research skills necessary to pursue professional careers in economics, business, public policy, or finance. Graduates will also be prepared to undertake higher studies or professional certifications in economics and related fields.

Essentials of Economics								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Half Course	ECH 101	Essentials of Economics	2	0	0	2	26	2

Introduction:

This course provides a foundational understanding of core economic concepts and principles, exploring both microeconomic and macroeconomic aspects. It equips students with the analytical tools to understand the behavior of individuals, firms, and markets, as well as the broader functioning of the economy.

Objectives:

1. To introduce fundamental economic concepts such as scarcity, choice, and opportunity cost.
2. To explain the role of markets and the price mechanism in allocating resources.
3. To analyse consumer behaviour and the determinants of demand and supply.
4. To examine the behaviour of firms in different market structures and their impact on pricing and output.
5. To understand the factors influencing the pricing of factors of production, including labour, capital and land.

Course Outcomes (CO):

At the end of the course, students will be able to

CO1: Understand and apply basic economic concepts to analyze real-world situations.
CO2: Explain the behavior of consumers and firms in different market settings
CO3: Analyze the determinants of prices and output in various market structures.
CO4: Understand the factors influencing the pricing of factors of production.
CO5: Explain the causes and consequences of macroeconomic phenomena such as inflation and recession.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Nature and scope of economics	5	Understanding

2.	Theory of consumer behaviour	5	Understanding and Analyzing
3.	Theory of product pricing	5	Understanding and Analyzing
4.	Theory of factor pricing	5	Understanding
5.	Inflation and recession	6	Explaining and Understanding

Introduction To Indian Economy

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Half Course	ECH 102	Introduction to Indian economy	2	0	0	2	26	2

Introduction:

The course will explore the key features, challenges, and opportunities of India's economy. It will also include topics as national income, population dynamics, agricultural development, industrial trends and the impact of economic reforms. Additionally, This course will provide a clear understanding of India's economic landscape and its challenges.

Objectives:

1. To analyze the fundamental features and challenges of the Indian economy
2. To examine the relationship between population dynamics and economic development in India.
3. To evaluate the role of agriculture in the Indian economy and assess the impact of rural development initiatives
4. To analyze the dynamics of industry and trade in India
5. To examine the implications of the New Economic Reforms.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Demonstrate a comprehensive understanding of the basic features, challenges, and growth trends of the Indian economy.
CO2: Evaluate the impact of population growth, demographic composition, and policies on economic development in India.
CO3: Critically assess the role of agriculture in the Indian economy.
CO4: Analyse the dynamics of industrial finance, labour issues, and the contributions of MSMEs.
CO5: Assess the impact of the New Economic Reforms and the role of multinational corporations in transforming India's economic landscape.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Indian economy: basic features	5	Interpreting, Analyzing and Evaluating.
2.	Population dynamics	5	Analysing, Interpreting and Assessing.
3.	Agriculture and rural development	5	Analyzing, Evaluating, Assessing
4.	Industry and trade	5	Evaluating
5.	New economic reforms	6	Analyzing and Assessing

Banking & Finance								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Work Experience	ECW 101	Banking & Finance	2	0	2	4	52	2

Introduction:

This course provides a practical understanding of the banking and financial sector, covering various types of banks, their operations, electronic banking, financial assets, and real-time project applications. It equips students with the knowledge and skills necessary to navigate the modern financial landscape.

Objectives:

1. To introduce students to the different types of banks and their roles in the economy.
2. To familiarize students with essential banking operations, including account management, cheque handling, and electronic transactions.
3. To provide an overview of e-banking and its various delivery channels and products.
4. To explain the concept of financial assets, their characteristics, and their role in investment and risk management.
5. To enable students to apply their knowledge through a project based on real-time issues in banking and finance.

Course Outcomes (CO):

At the end of the course, students will be able to

CO1: Differentiate between various types of banks and their functions.

CO2: Understand and perform essential banking operations, including account management and cheque handling.

CO3: Utilize e-banking services effectively and securely.

CO4: Analyze different financial assets and their characteristics

CO5: Apply theoretical knowledge to real-world scenarios through a project based on current issues in banking and finance.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Types of banks	12	Understanding
2.	Banking operations	14	Understanding
3.	E-banking	12	Understanding and Applying
4.	Financial assets	14	Analyzing
5.	Content based assignment	-	Understanding and Applying

Principles of Microeconomics								
Course Type	Course Code	Name of Course	L	T	P	Period/wee	Min.pds./sem	Credit

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Major	ECM 101	Principles of Microeconomics	3	0	0	3	39	3

Introduction:

This paper aims to provide valuable insights into the functioning of economies at the microlevel and develop understanding of concepts and theories related to consumer and producer behavior and their interactions in different market structures. This course also provides knowledge of cost, revenue, and how the economy works in short- and long-run product and factor markets.

Objectives:

1. To introduce fundamental concepts such as scarcity, opportunity cost, and trade-offs, and how they influence decision-making.
2. To develop the understanding of theories of consumer choice, including utility maximization, indifference curves, budget constraint and consumer surplus to understand how consumers make purchasing decisions.
3. To introduce the law of demand and supply, elasticity and understanding of market equilibrium, prices, and quantities in various market conditions.
4. To learn the production process, cost structures and production theories that works in short and long run.
5. To develop the understanding of various factors of production, nature of market and how they determine equilibrium in the factor market.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Explain fundamental concepts such as supply and demand, elasticity, and market equilibrium.
CO2: Apply theories of consumer choice to understand how individuals make decisions regarding consumption.
CO3: Analyze the production process and cost structures of firms, including short-run and long-run decisions.
CO4: Differentiate between various market structures and their implications for pricing and output.
CO5: Develop critical thinking skills to evaluate economic arguments and policies related micro economic variables.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Nature and scope of economics	7	Understanding
2.	Theory of consumer's behaviour	9	Understanding, Analyzing and Applying
3.	Theory of production	7	Analyzing and Applying
4.	Theory of product-pricing	9	Understanding and differentiating
5.	Theory of factor-pricing	7	Analyzing and Evaluating

Indian Economic Development-I

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM102	Indian Economic Development-I	3	0	0	3	39	3

Introduction:

This course provides a comprehensive overview of the Indian economy, exploring its characteristics, challenges and policy initiatives since independence. It covers key sectors such as agriculture, industry and services, as well as the role of infrastructure and human resources in development.

Objectives:

1. To understand the characteristics and challenges of the Indian economy in a comparative perspective.
2. To analyze the performance and structural changes in the agricultural sector.
3. To examine the growth, productivity, and policy framework of the industrial sector.
4. To assess the role of the tertiary sector in the Indian economy.
5. To understand the importance of infrastructure and human resource development for economic growth.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Analyze the key features and challenges of the Indian economy in comparison to developed countries.

CO2: Evaluate the performance and structural changes in the agricultural sector and understand the impact of policy interventions.

CO3: Assess the growth, productivity, and policy framework of the industrial sector and its contribution to economic development.

CO4: Analyze the role and significance of the tertiary sector in the Indian economy.

CO5: Understand the importance of infrastructure and human resource development for sustainable economic growth.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	The Indian Economy: An Overview	8	Understanding and Analyzing
2.	Indian Agriculture	8	Understanding, Analyzing and Evaluating
3.	Indian Industry And Planning	9	Assessing
4.	Tertiary Sector	7	Understanding and Analyzing
5.	Infrastructure & Human Resource	7	Understanding

Introduction to Computer Applications

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Work Experience	ECW201	Introduction to Computer Applications	2	0	2	2	52	2

Introduction:

This course provides a foundational understanding of computer applications and their relevance in various fields, with a particular focus on economics. It covers essential computer skills, office automation tools, statistical processing techniques, data processing methods, and the application of IT in economic contexts.

Objectives:

1. To introduce students to basic computer hardware and software concepts.
2. To familiarize students with essential office automation tools like MS Word and Power Point.
3. To equip students with statistical processing techniques using MS Excel.
4. To introduce data processing techniques and methods for effective data management and analysis.
5. To explore the application of IT in economics, including internet applications, e-banking and financial analysis

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Demonstrate proficiency in basic computer operations and software usage.
CO2: Utilize office automation tools effectively for document creation and presentations.
CO3: Apply statistical processing techniques using MS Excel for data analysis and visualization.
CO4: Understand and implement data processing techniques for efficient data management and analysis.
CO5: Explore the application of IT in economic contexts, including internet applications and financial analysis tools.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Introduction To Computers	11	Understanding
2.	Tools For Office Automation	10	Applying
3.	Statistical Processing Techniques Using Ms Excel	10	Applying
4.	Data Processing Techniques & Methods	10	Understanding
5.	It Application To Economics	11	Exploring

Principles of Macro Economics

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM201	Principles of Macro Economics	3	0	0	3	39	3

Introduction:

This course introduces the fundamental principles of macroeconomics, exploring key concepts such as national income accounting, aggregate demand and supply, classical and Keynesian theories, money and banking, and the dynamics of inflation and business cycles. It equips students with the analytical tools to understand and evaluate macroeconomic phenomena and policies.

Objectives:

1. To provide a foundational understanding of macroeconomic concepts and their applications.
2. To analyze the determinants of national income, output, and employment.
3. To evaluate the role of fiscal and monetary policies in managing the economy.
4. To understand the causes and consequences of inflation and business cycles.
5. To critically assess different macroeconomic theories and their policy implications

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Understand and apply key macroeconomic concepts to analyze real-world economic issues.
CO2: Explain the determinants of national income, output, and employment.
CO3: Evaluate the role and effectiveness of fiscal and monetary policies.
CO4: Analyze the causes and consequences of inflation and business cycles.
CO5: Critically assess different macroeconomic theories and their policy implications.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)

1.	Introduction to macroeconomics and national income accounting	8	Understanding
2.	Classical theory of employment	7	Understanding, Explaining and Analyzing
3.	General theory of employment of Keynes	9	Understanding and Evaluating
4.	Money and banking	8	Understanding and Analyzing
5.	Inflation and business cycle	7	Understanding and Analyzing

Money, Financial Markets & Institutions

Course Type	Course Code	Name of Course	L	T	P	Period	Min.pds./sem	Credit
Major	ECM 202	Money, Financial Markets & Institutions	3	0	0	3	39	3

Introduction:

This paper aims to study the concepts related with money, financial markets, and institutions that's provides a comprehensive framework for understanding the complex interactions within an economy. By exploring these components, students gain valuable insights into how financial systems operate, the role of institutions and the implications for economic policy and individual financial decisions.

Objectives:

1. To understand various types of financial markets like capital, money, and foreign exchange and bond markets and understand their roles in resource allocation.
2. To learn about key financial institutions like central bank, commercial banks and non-banking financial institutions to evaluate their functions in facilitating economic activities.
3. To evaluate the central bank's role in formulating and regulating the stability and integrity of financial systems through implementation of monetary policy in financial market.
4. To develop the understating of current reforms in the financial market for smooth functioning of financial activities.
5. To develop the understating of India's current regulatory architecture related to the concepts of financial intermediation, financial access and financial inclusion.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Identify and describe the different types of financial markets and the instruments traded within them.

CO2: Discuss the role of central bank and commercial banks on India's financial framework.

CO3: Analyze the tools and functions of central banks, including the mechanisms of monetary policy and its effects on inflation, employment, and economic growth.

CO4: Discuss the importance of regulation in the financial sector and evaluate the effectiveness of various regulatory frameworks in preventing financial crises.

CO5: Analyze the financial sector reforms and its impact on Indian financial market.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Money & financial markets	7	Understanding
2.	Indian monetary and credit system	7	Understanding
3.	Financial reforms	7	Understanding and Analyzing

4.	Non-banking financial intermediaries	9	Understanding and Analyzing
5.	Indian experience of the financial market	9	Evaluating

Communication Techniques								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECW 301	Communication Techniques	2	0	2	13	52	2

Introduction:

This course is designed to enhance interpersonal communication skills among students that provides numerous tools and strategies needed to communicate effectively in various contexts. This course enables students to communicate more effectively, present your ideas confidently, and navigate complex conversations with ease.

Objectives:

1. To analyze and apply various communication models to enhance understanding of the communication process.
2. To learn reading, writing and listening skills to communicate effectively and impactfully.
3. To improve listening and speaking skills to foster better understanding and engagement in conversations.
4. To learn various business communication methods and frameworks to develop effective business communication interactions.
5. To enhance verbal and non-verbal communication skills, including clarity, tone, and articulation in both spoken and written forms.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Develop a solid understanding of tenses, parts of speech, and the ability to compose effective passages, essays, and meeting notes.

CO2: Gain expertise in writing clear, concise, and professional business letters, following the structure and style

Required for effective communication.

CO3: Students will learn to draft various types of official letters, including job applications, complaint letters, and inquiries, with accuracy and appropriateness

CO4: Acquire skills in writing letters for banking operations (account opening, cheque transactions) and trade-related communication,

CO5: Enhance verbal communication by practicing telephone techniques, self-introduction, handling requests, and performing well in job interviews.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1	Grammar	10	Understanding and Analyzing
2	Business communication-introduction	10	Understanding
3	Reading and writing activities different types of official letters	10	Understanding
4	Reading and writing activities	12	Understanding, Applying
5	Listening and speaking activities	10	Understanding and Applying

Development Economics								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 301	DEVELOPMENT ECONOMICS	3			3	39	3

Introduction:

This course will equip students with a comprehensive understanding of growth and development, including their indicators and key Indexes of development. It will address critical topics such as income distribution and inequality, the role of population, and various planning and growth models. Additionally, the course will emphasize the role of resources for the development for the nation.

Objectives:

1. To provide students with a comprehensive understanding of the fundamental concepts of growth and development.
2. To analyse and compare different economic development approaches.
3. To evaluate key theories of economic development.
4. To explore the dynamics of income distribution, inequality and poverty.
5. To explore how natural resources, population, capital, human resource development, and infrastructure influence cross-country differences in economic growth.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Distinguish between economic growth and development, exploring concepts such as underdevelopment, sustainability, and quality of life.

CO2: Analyse various development approaches, including mixed economies and models like the Lewis Dual Economy and Critical Minimum Effort Theory.

CO3: Evaluate key theories of economic development (Classical, Marxist, Schumpeter) and apply growth models (Harrod-Domar, Solow) to real-world contexts.

CO4: Examine the definitions and measures of poverty and inequality, and their implications for economic development.

CO5: Assess the influence of natural resources, population, capital, and human resource development on cross-country growth disparities, emphasizing the roles of education and research.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Basic concepts of economic development	8	Evaluating and Assessing
2.	Approaches to development	7	Understanding and Evaluating
3.	Economic development and growth :theories & models	8	Analyzing and Evaluating
4.	Poverty and inequality: Definitions, measures	8	Analyzing and Evaluating
5.	Resources and development	8	Understanding and Analyzing

Public Economics								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit

Major	ECM 302	Public Economics	3	0	0	3	39	3

Introduction:

This course delves into the principles and practices of public economics, examining the economic role of government, public goods, taxation, public expenditure, and fiscal policy. It equips students with the analytical tools to understand and evaluate the role of government in the economy.

Objectives:

1. To understand the economic rationale for government intervention in the market.
2. To analyse the concept of public goods and the challenges of their provision.
3. To examine the principles and effects of taxation.
4. To evaluate the role and impact of public expenditure and debt.
5. To understand the process of budgeting and fiscal policy in India.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Explain the economic role of government and the concept of market failure.

CO2: Analyse the principles and effects of taxation and evaluate different tax systems.

CO3: Understand the role and impact of public expenditure and debt on the economy.

CO4: Analyse the budgeting process and the role of fiscal policy in achieving macroeconomic objectives.

CO5: Evaluate the Indian tax system, fiscal federalism, and the challenges of centre-state financial relations.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Public economics	8	Understanding
2.	Sources of public revenue	7	Understanding and Analyzing
3.	Public expenditure and debt	8	Understanding
4.	Budget	8	Understanding and Analyzing
5	Policy and governance	8	Understanding and Evaluating

Statistical Methods for Economics 1

Course Type	Course Code	Name of Course	L	T	P	Period	Min.pds./sem	Credit
Major	ECM 303	Statistical Methods for Economics 1	3	0	0	3	39	3

Introduction:

This course is equipped with essential statistical tools and techniques necessary for analyzing economic data and making informed decisions. This course provides the foundational knowledge of key statistical terms, methods, interpretation of data that will be helpful to understand advanced statistical tools and methods and coming semesters.

Objectives:

1. To understand key statistical terms and various types of data visualizations techniques like bar graph, histograms, pie charts, and line graphs, to effectively communicate data insights.
2. To calculate and interpret various measures of central tendency and measures of dispersion for effective statistical findings.
3. To demonstrate a solid understanding of key statistical concepts, including probability and correlation.

4. To enhance ability to critically evaluate data, interpret results, and draw meaningful conclusions from results.
5. To cultivate foundational knowledge of statistics to understand advanced statistical methods and their applicability in real world scenario.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Explain fundamental statistical concepts and terminology, including population, sample, and types of data.
CO2: Demonstrate proficiency in collecting, organizing, and presenting economic data using appropriate graphical and tabular methods.
CO3: Calculate and interpret key descriptive statistics, including measures of central tendency and measures of dispersion.
CO4: Analyze the relationships between variables using correlation and discuss the implications for economic interpretation
CO5: Understand basic probability concepts and apply them to economic contexts, including the calculation of probabilities for various events.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Basic concepts and data presentation	8	Understanding
2.	Measures of central tendency	7	Understanding and Evaluating
3.	Measures of dispersion	8	Analyzing
4.	Correlation	8	Analyzing
5.	Elementary probability theory	8	Analyzing and Applying

Business Forecasting

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 306	Business Forecasting	3	0	0	3	39	3

Introduction:

Business Forecasting is an essential course at the undergraduate level, designed to equip students with the tools and techniques necessary for predicting future business trends. This course introduces various forecasting methods, including time series analysis, regression models, and ARIMA models, to help students analyze historical data and make informed decisions. Emphasis is placed on the practical application of statistical techniques for improving forecast accuracy. By the end of the course, students will be able to apply these methods to real-world business scenarios, enhancing their ability to anticipate market changes and support strategic planning.

Objectives:

1. To develop a comprehensive understanding of the forecasting process, its significance, and its application in business
2. To understand the concept of forecast accuracy and apply its techniques/ methods
3. To develop proficiency in regression and ARIMA models for forecasting, including model estimation, validation, and diagnostic
4. To enable students to explore multiple forecasting methods, implement them in various scenarios,

5. To equip students with the skills to implement forecasting methods in real-world business settings and make predictions based on short, medium, and long-term

Course Outcomes (CO):

At the end of the course, the student will be able to: (At least 5)

CO1: Understand forecasting concepts, data patterns, and use graphical tools like time plots and autocorrelation for trend analysis

CO2: Evaluate forecast accuracy using statistical measures, apply exponential smoothing, and decompose time series data (additive and multiplicative) for effective forecasting

CO3: Understand the OLS estimation method for regression-based forecasting, and make inferences to forecast future outcomes based on these models.

CO4: Understand the properties of least squares estimators, while conducting model identification, estimation, diagnostic checking, and making accurate forecasts using ARIMA model

CO5: Identify factors influencing forecasting method selection, implement short to long-term forecasting strategies, and understand organizational aspects and the combination of forecasts for enhanced accuracy and decision- making

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Introduction to forecasting	8	Understanding
2.	Basics of forecasting	8	Understanding and Analyzing
3.	Regression methods	7	Understanding
4.	Arima models	8	Understanding
5.	Implementation &combination of forecasting methods	8	Understanding and Identifying

Monetary Economics

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min. pds./sem	Credit
Major	ECM 401	Monetary Economics	3	0	0	3	39	3

Introduction:

The course will be offered to Economics UG students. It introduces the students to the demand and supply of money, monetary policy tools and the effectiveness of monetary policy in various macroeconomic models. At the same time, it elaborates on the role of the central bank in the economy. Moreover, we will also discuss the role of money in macro models.

Objectives:

1. To understand the nature and functions of money through various frameworks and examine key theories of the demand for money
2. To comprehend money supply and its various models, methods of monetary control, both in closed and open economies,
3. To analyse theories of interest rates and theories of term structure to understand the equilibrium exchange rate determination.
4. To examine the monetary transmission mechanism and its different channels.
5. To assess the role of commercial and central banking and its impact on the economy.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Understanding the different definitions and functions of money, and they will be able to evaluate different theories of money demand.
CO2: Comprehensive understanding of the money supply, including its components, theories of determination, and the role of financial intermediaries.
CO3: Master the analysis of the fundamental and monetary theories of interest rates, understand the term structure and yield curve, and determine equilibrium exchange rates.
CO4: Develop a clear understanding of how monetary policy affects the economy through different channels, and its practical implications on various economic sectors.
CO5: Understand the functions of commercial banks, and the pivotal role of central banks in monetary policy, including their objectives, targets, indicators, and functions of microfinance. This understanding will underscore the relevance and significance of the topic in the field of economics and finance.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Definition, functions and theories of money	8	Understanding and Evaluating
2.	Money supply	8	Understanding
3.	The theory of interest	7	Understanding and Analyzing
4.	Monetary transmission mechanism	8	Understanding
5.	Commercial and central banking	8	Understanding

Demography

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM:402	Demography	3	0	0	3	39	3

Introduction:

This course on Demography **e**xplores the study of human populations, their structure, dynamics, and impact on society. It covers core concepts like birth and death rates, population density, and growth, along with relationships to economics and the environment. The course examines population theories, demographic methods for fertility and mortality measurement, and the interaction between population and human development. Special attention is given to India's demographic profile, its census methods, population policies, and migration patterns, offering a comprehensive understanding of global and national population trends

Objectives:

1. To understand the fundamental concepts and scope of demography and its significance in society.
2. To analyze various population theories and their application in contemporary demographic studies.
3. To learn demographic methods for measuring fertility, mortality, and population dynamics.
4. To explore the relationship between population growth, human development, and economic behavior.
5. To examine India's demographic profile, migration trends, and population policies

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Students will gain a comprehensive understanding of demographic concepts and their interdisciplinary relevance.

CO2: They will critically evaluate population theories and apply them to real-world demographic issues.

CO3: Students will acquire skills in measuring and analyzing fertility, mortality, and population growth rates.

CO4: They will assess the impact of population trends on human development, economic behavior, and the environment.

CO5: Students will develop insights into India's demographic structure, policy responses, and migration patterns.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1	Concept and scope of demography	8	Understanding
2	Population theories	8	Understanding and Evaluating
3	Demographic methods	8	Analyzing
4	Population and human development issues	7	Assessing
5	Demographic profile of India	8	Understanding and Analyzing

International Economics

Course Type	Course Code	Name of Course	L	T	P	Period/ week	Min.pds. /sem	Credit
Major	ECM 403	International Economics	3	0	0	3	39	3

Introduction:

This course is designed to provide the comprehensive understanding of economic relationships between nations, trade theories, policies issues, exchange rate concepts and international institutions that shape the global economy. It aims to provide students with the analytical tools necessary to understand and evaluate international economic interactions.

Objectives:

1. To learn comprehend fundamental theories of international trade, including absolute, comparative advantage and opportunity cost.
2. To develop the understanding of various trade policies and instruments, such as tariffs, quotas, and trade agreements, in shaping economic interactions between countries
3. To introduce the concepts of foreign exchange and the mechanisms of exchange rate and exchange controls.
4. To assess how countries are economically interconnected and the implications of these relationships for domestic and global economies.
5. To gain insight into international financial systems, including exchange rate mechanisms, capital flows, and the functions of global financial institutions.

Course Outcomes (CO):

At the end of the course, students will be able to

CO1: Analyze and compare different theories of international trade, such as absolute advantage, comparative advantage, and the Heckscher-Ohlin model, to explain patterns of trade between countries.

CO2: Critically evaluate the impact of various trade policies, including tariffs, quotas, and trade agreements, on domestic and international economies.

CO3: Explain the determinants of exchange rates, the mechanisms of exchange rate systems, and the implications of exchange rate fluctuations for international trade and investment.

CO4: Analyze the interconnectedness of national economies, the role of international financial institutions, and the challenges and opportunities associated with globalization.

CO5: Analyze the functions and impact of key international financial institutions, such as the International Monetary Fund (IMF) and the World Bank, in the global economy.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Theories of international trade	8	Understanding and Analyzing
2.	Trade policy	8	Understanding and Evaluating
3.	Foreign exchange and exchange controls	8	Understanding
4.	Balance of payments	7	Understanding and Analyzing
5.	International institutions	8	Understanding and Analyzing

Mathematical Methods for Economics

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM406	Mathematical Methods For Economics	3	0	0	3	39	3

Introduction:

Mathematical Methods for Economics combines mathematical principles with economic theory, equipping students with tools like calculus, linear algebra, and statistics. This course enhances analytical skills to model economic behavior and optimize decision-making, preparing students for advanced studies and careers in finance, policy analysis, and data science.

Objectives:

1. To develop a strong foundation in mathematical concepts essential for economic analysis.
2. To formulate and analyse mathematical models of economic phenomena.
3. To enhance analytical and problem-solving skills through rigorous mathematical reasoning in economic contexts.
4. To apply optimization techniques to solve economic problems related to resource allocation and decision-making.
5. To interpret mathematical results to inform economic analysis and policy implications.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Apply fundamental mathematical concepts, including set theory, number systems, and functions, to economic problems.

CO2: Understand and apply various function types and their graphs in economic contexts. Perform matrix operations and use determinants to solve systems of linear equations in economic models.

CO3: Utilize calculus concepts, such as limits, differentiation, and their applications, to analyse

economic relationships.
CO4: Apply differential calculus theorems to solve optimization problems and analyse economic behaviour.
CO5: Employ single and multivariable optimization techniques to determine optimal solutions in economic contexts.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Basic concepts, functions and graphs	8	Understanding, Analyzing and Applying
2.	Determinants	8	Understanding and Applying
3.	Limits, continuity and differential calculus	7	Understanding and Analyzing
4.	Theorems and applications of differential calculus	7	Understanding and Applying
5.	Single variable & multivariate optimization	9	Understanding and Analyzing

Micro Economic Analysis

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 501	Micro Economic Analysis	4	0	0	4	52	4

Introduction:

This course covers microeconomic concepts, including consumer choice, production, market structures, and welfare economics, equipping the learners with tools to understand how individuals and firms make economic choices, and how these choices affect overall welfare and market outcomes.

Objectives:

1. To provide an in-depth understanding of microeconomic theories related to consumer choice, production, and
2. market structures
3. To help students understand the decision-making processes of individuals and firms, the determination of prices in different market settings, and the allocation of resources To understand how market outcomes can affect overall societal welfare
4. To study the role of value judgments, social welfare functions, and compensation principles in policy-making
5. To be able to evaluate economic behaviour and outcomes in various economic environments.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Students will develop the ability to analyze consumer behavior and market structures
CO2: Leaners will be able to apply key concepts such as utility, demand elasticity, and production functions to real- world economic scenarios and decision-making.
CO3: Learners will develop an awareness of ethical considerations in economic decision-making, including issues related to equity, fairness, and the social responsibilities o
CO4: Students will learn to conduct empirical analysis of market data, enabling them to make informed decisions based on quantitative evidence and economic indicators.
CO5: Learners will be able to critically assess welfare economics concepts.

Unit No	Topics to be Covered	Period Number	Learning Outcomes (Bloom's Taxonomy)

		of Lecture(s)	
1.	Demand analysis and consumer choice	10	Analyzing
2.	Theory of production and cost analysis	10	Understanding and Applying
3.	Market structure and equilibrium	11	Understanding
4.	Factor pricing	11	Understanding and Analyzing
5.	Welfare economics	10	Assessing

Indian Economic Development II

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major Course	ECM 502	Indian Economic Development II	4	0	0	4	52	4

Introduction:

This course delves deeper into the complexities of the Indian economy, examining its structural evolution, national income trends, poverty and inequality challenges, economic reforms, and its integration into the global economy. It equips students with the analytical tools to understand and evaluate India's economic development journey and its position in the global context.

Objectives:

1. To understand the structural transformation of the Indian economy since independence.
2. To analyse trends and patterns in India's national income and per capita income.
3. To examine the challenges of poverty, unemployment, and economic inequality in India.
4. To evaluate the impact of economic reforms on the Indian economy.
5. To understand India's position in the global economy and its engagement with key international organizations and trade blocs.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Analyse the structural changes in the Indian economy and the role of the state in its development.

CO2: Evaluate trends and patterns in India's national income and per capita income, and understand the implications for economic well-being.

CO3: Critically assess the challenges of poverty, unemployment, and economic inequality in India and evaluate policy interventions.

CO4: Analyse the impact of economic reforms on India's growth, development, and integration into the global economy.

CO5: Understand India's position in the global economy, its trade patterns, and its engagement with key international organizations

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Structure of the indian economy	11	Understanding and Analyzing
2.	India's national income	10	Understanding and Evaluating
3.	Poverty and inequality	10	Assessing and Evaluating

4.	Economic reforms in india	10	Analyzing
5.	India and the global economy	11	Understanding

Statistical Methods for Economics -II								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM:503	Statistical Methods for Economics -II	4	0	0	13	52	4

Introduction:

Statistics plays a crucial role in Economics, aiding in data analysis and interpretation. This course aims to equip students with key statistical tools necessary for understanding and analyzing economic data effectively, enabling them to draw meaningful insights and make informed decisions based on statistical evidence

Objectives:

1. To help students develop a comprehensive understanding of key statistical concepts
2. To help students develop proficiency in statistical inference techniques and draw inference
3. To effectively apply statistical tools and interpret data
4. To help in understanding relationships between variables using correlation and regression analysis
5. To build a strong foundation for advanced studies in data science, econometrics, and quantitative research

Course Outcomes (CO):

At the end of the course, the student will be able to: (At least 5)
CO1: Learners will be familiar with different sampling distributions
CO2: Learners will be able to apply statistical inference in practice
CO3: Students will be able to draw and analyze relationships among different variables
CO4: Students will be able to decompose time series data into different components and measure them
CO5: Students will be able to define and construct various types of index numbers

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1	Introduction to sampling distributions	10	Understanding
2	Introduction to statistical inference	11	Applying
3	Simple regression and correlation:	10	Analyzing and Applying
4	Time series	11	Analyzing
5	Index numbers	10	Understanding

History of Economic Thought								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min. pds./sem	Credit
Major	ECM 504	History of Economic Thought	4	0	0	4	52	4

Introduction:

The course will be offered to Economics UG students. The History of Economic Thought studies the evolution of economic ideas, theories, and philosophies from ancient times to the present day. It explores how thinkers have conceptualized, analysed, and explained economic phenomena, as well as the factors that have influenced the development of economic thought.

Objectives:

1. To understand the evolution of economic thought from ancient times to the present, highlighting key contributions from thinkers like Aristotle, Plato, and later classical economists.
2. To investigate the contributions of key classical economists, focusing on their views on value, labour, distribution, and economic development.
3. To appreciate the interconnectedness of economic theories and explore the relationships between economic schools of thought and their historical context.
4. To develop critical thinking skills and evaluate economic arguments from various perspectives.
5. To apply historical economic theories to modern economic problems, demonstrating their continued influence on current policies and systems.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Understand the evolution of economic thought from ancient times to present-day perspectives, understanding the key concepts, theories, and methodologies that have shaped its development.

CO2: Critically analyse the contributions of major economic thinkers and their influence on economic policy and practice, comparing and contrasting different schools of economic thought.

CO3: Apply economic concepts to analyse contemporary economic issues and challenges, recognizing the interconnections between economic thought and broader social, political, and historical contexts.

CO4: Effectively communicate economic ideas and arguments both orally and in writing, presenting complex economic concepts clearly and concisely.

CO5: Demonstrate a historical perspective on economic thought, understanding the context in which economic ideas have emerged and evolved, and appreciating the significance of historical developments in shaping economic thinking.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Early period	10	Understanding
2.	Classical period	11	Analyzing
3.	The marxian challenge and marginal revolution	10	Applying
4.	Keynesian ideas	11	Understanding
5.	Indian economic thought	10	Understanding

Macro- Economic Analysis and Policy

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM:601	Macro-Economic Analysis and Policy	4	0	0	4	52	4

Introduction:

This course offers a detailed exploration of macroeconomic theories and models that shape consumption, investment, and policy analysis in both closed and open economies.

Objectives:

1. To develop a strong foundation of key macroeconomic theories and models,
2. To understand and interpret the key macroeconomic indicators, such as GDP, inflation, unemployment rates, and their relationships.
3. To understand the interconnectedness of global economies and analyze how international trade, exchange rates, and global economic policies influence domestic macroeconomic conditions
4. To equip students with the ability to critically analyze and solve complex economic problems
5. To prepare students to analyze and interpret economic activities within open economies

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Students will grasp key economic theories related to consumption, investment, and their behavioral implications within various contexts.

CO2: Learners will be equipped to analyze and interpret the IS-LM framework, aggregate demand and supply curves, and their shifts under different conditions.

CO3: Students will be able to understand the effectiveness of fiscal and monetary policies in influencing equilibrium income and interest rates in both closed and open economies.

CO4: Students will be able to investigate the relationship between inflation and unemployment, including the Phillips curve and natural rate of unemployment.

CO5: Students will be able to apply the Mundell-Fleming model to evaluate equilibrium output and the impact of monetary and fiscal policies under varying exchange rate regimes.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Consumption and investment function	10	Understanding
2.	The closed economy in the short run	10	Understanding And Analyzing
3.	The aggregate demand and supply	11	Understanding
4.	Inflation and unemployment	10	Understanding And Analyzing
5.	Open economy models	11	Applying

Industrial Economics

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 602	Industrial Economics	4	0	0	4	52	4

Introduction:

This course enables students to study of how industries function, focusing on the behavior of firms and the dynamics of competition within various market structures. This field blends concepts from economics, business strategy, and public policy to understand how industries operate and evolve.

Objectives:

1. To equip students with foundational knowledge of industrial economics to understand industry trends, firm strategies, and market dynamics effectively.
2. To examine the determinants of firm profitability and explore how firms operate in different market dynamics like market concentration, corporate governance and regulatory acts.
3. To analyze various financial structures used in industries, including equity, debt, and hybrid financing options, and their implications for capital management.
4. To assess the impact of government regulations and antitrust laws on market competition,

efficiency, and how globalization influences competition, market entry strategies, and the overall structure of industries.
5. To develop the comprehensive understanding of how Indian industries operate within the global context and the factors influencing their success.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Understands various ownership structures, including public, private, cooperative, sole proprietor, and their impact on decision-making and efficiency.
CO2: Assess the efficiency and effectiveness of different industries, focusing on how market performance with different market frameworks.
CO3: Apply investment appraisal techniques like Net Present Value (NPV) and Internal Rate of Return (IRR) and Pay-Back period.
CO4: Analyze various financial modes used in industries, such as equity financing, debt financing, and hybrid instruments, to understand their implications for capital structure and financial health.
CO5: Analyze how Indian industries interact with global markets, including trends, challenges, and opportunities.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Industrial organisation & ownership structure	10	Understanding
2.	Market performance	11	Understanding and Assessing
3.	Project appraisal	10	Applying
4.	Financial modes of industry	11	Analyzing
5.	Indian industry in the international context	10	Analyzing

Basic Econometrics

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 603	BASIC ECONOMETRICS	4	0	0	4	52	4

Introduction:

This paper will equip students with the fundamental tools and techniques to analyze economic data.

Objectives:

1. To make students understand the fundamentals of econometrics
2. To make students analyze and infer statistical data
3. To make students understand economic relationships and comprehend structures of models (estimation, model building)
4. To explain the approach and methodology of econometrics.
5. To equip students with the econometric skills

Course Outcomes (CO):

At the end of the course, the student will be able to: (At least 5)
After completion of the course, students will be able to:
CO1: explain the basics of econometrics and differentiate it from other related fields.
CO2: lay the foundation of econometrics and its applications in different fields
CO3: make informed decisions based on the results.
CO4: equipped to handle real-world data challenges
CO5: ensure the validity of getting accurate results ,incorporate information into models and address potential issues for empirical work.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Nature and scope of econometrics & review of statistics	10	Explaining
2.	Simple linear regression model	11	Understanding
3.	Classical multiple linear regression model	11	Understanding and Analyzing
4.	Violations of classical assumptions	10	Understanding
5.	Distributed lag model and dummy variable	10	Understanding

Environmental Economics

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 604	Environmental Economics	4	0	0	4	52	4

Introduction:

Environmental economics is a subfield of economics that focuses on the relationship between economic activities and the environment. It seeks to understand how economic policies and practices impact natural resources, ecosystems, and human well-being.

Objectives:

1. To grasp the fundamental concepts and principles of environmental economics, including market failures, externalities, and sustainability.
2. To evaluate how economic activities affect the environment and assess the economic consequences of environmental degradation.
3. To explore and critically assess various environmental policy instruments, such as taxes, subsidies, and tradable permits, and their effectiveness in addressing environmental issues.
4. To analyze the economic dimensions of climate change, including the costs of mitigation and adaptation strategies, as well as the implications of international agreements.
5. To apply theoretical concepts to contemporary environmental challenges through case studies and practical examples.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Clearly define and explain fundamental concepts of environmental economics, including externalities, market failures, and the principles of sustainability.
CO2: Assess the economic effects of environmental policies and practices, demonstrating an understanding of the trade-offs involved in resource use and conservation.
CO3: Critically evaluate various environmental policy instruments (e.g., taxes, subsidies, cap-and-

trade systems) for their effectiveness, efficiency, and equity in addressing environmental issues.
CO4: Analyze the economic implications of climate change, including costs of mitigation and adaptation, and assess the effectiveness of international climate agreements.
CO5: Apply theoretical concepts to real-world environmental challenges that demonstrate the ability to synthesize information to propose informed solutions.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Theory and concept	10	Understanding
2.	Environment and economics:	10	Assessing
3.	Environmental issues, development dynamics and assessment	11	Evaluating
4.	Policy measures	10	Analyzing
5.	International environmental issues	11	Evaluating and Applying

Microeconomic Theory

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 701	Microeconomic Theory	4	0	0	4	52	4

Introduction:

This paper aims to provide students with a rigorous understanding of the behavior of individual economic agents and the markets in which they interact.

Objectives:

1. To make them students analyze consumer behaviour under different situations
2. To enable them to do a cost-benefit analysis of any firm.
3. To make them understand different market structures and their implications for firms and consumers
4. To understand the factors determining input prices under different market conditions
5. To make them understand the limitations of market mechanisms and required conditions for efficient allocation of resources.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Analyze consumer behaviour in different market conditions
CO2: Analyze production decisions of firms under different circumstances
CO3: Analyze firms' behavior and the markets' functioning in different contexts.
CO4: Establish the interlinkages of factors that determine the pricing of inputs, additionally, the role of labour markets and public policies to understand the concept of general equilibrium and its implications for economy.
CO5: Analyze the limitations of market mechanisms and evaluate the necessary conditions for achieving efficient allocation of resources in various economic systems.

Unit No	Topics to be Covered	Period Number of	Learning Outcomes (Bloom's Taxonomy)

		Lecture(s)	
1.	Consumer theory	11	Analyzing
2.	Producer and cost theory	10	Analyzing
3.	Firms and market structure	10	Analyzing
4.	Input markets	11	Understanding
5.	General equilibrium and welfare	10	Analyzing and Evaluating

Indian Economy-Development, Perspectives. & Challenges								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min. pds./sem	Credit
Major	ECM 702	Indian Economy-Development, Perspectives. & Challenges	4	0	0	4	52	4

Introduction:

This course provides an in-depth exploration of the development, perspectives, and challenges of the Indian economy from 1950 to the present. It covers various aspects of economic growth, sectorial performance, employment, poverty, infrastructure development, and contemporary economic issues. By studying the growth trajectory of India, demographic trends, poverty alleviation efforts, and the development of infrastructure, students will gain insights into the challenges and opportunities faced by the Indian economy.

Objectives:

1. To understand the evolution of the Indian Economy, focusing on the role of planning, the agricultural sector, industry, and services, along with the impact of foreign investment.
2. To assess the demographic challenges faced by India, including population growth, labour force participation, and gender dynamics in the workforce.
3. To evaluate the methods used to measure poverty in India, understand the poverty-employment interface, and explore the effectiveness of poverty alleviation policies such as MGNREGA and expert group recommendations.
4. To investigate the role of both economic and social infrastructure—such as energy, transport, education, and healthcare—in supporting India's economic growth.
5. To analyze current economic issues in India, including fiscal federalism, the Goods and Services Tax (GST), demonetization, and the role of the Monetary Policy Committee in shaping monetary policy and fiscal transfers.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Evaluate the patterns of accumulation, planning, and growth in the Indian economy, and assess the performance of key sectors.

CO2: Critically assess India's demographic challenges, including population growth and labour absorption, and examine employment and unemployment trends, with a focus on measurement issues and women’s participation in the workforce.

CO3: Understand and critically evaluate different methodologies used for estimating poverty in India, and explore the relationship between poverty, and employment.

CO4: Analyse the development and financing of India’s economic and social infrastructure, and assess government initiatives and future challenges in infrastructure development.
CO5: Critically assess contemporary issues such as fiscal federalism, the implementation of GST,

demonetization, and the role of the Monetary Policy in shaping India's economic and monetary policies.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	The growth of Indian economy 1950-2024	10	Understanding and Evaluating
2.	Employment and unemployment	11	Analyzing and Assessing
3.	Poverty	10	Understanding, Evaluating and Applying
4.	Infrastructure development in India	11	Understanding and Evaluating
5.	Contemporary economic issues in India	10	Assessing

Quantitative Techniques for Business & Economic Analysis

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM:703	Quantitative Techniques for Business & Economic Analysis	4	0	0	13	52	4

Introduction:

This course provides an essential foundation in quantitative methods, highlighting their critical role in decision-making, policy analysis, and effective data interpretation in economics and beyond. Students will learn to apply probability, statistical inference, linear algebra, and calculus, equipping them with the analytical skills needed to address complex economic challenges and inform policy decisions effectively

Objectives:

1. To prepare students for advanced study and professional roles where quantitative analysis and mathematical modelling is essential.
2. To develop and enhance analytical and mathematical skill in Economics
3. Learn to utilize quantitative methods to address economic problems and interpret data for better policy decisions
4. To foster critical thinking and learn to approach complex quantitative problems in the light of underlying assumptions and limitations of different statistical and mathematical models.
5. To connect theoretical concepts with real-world situations through real life cases and enable them to apply
   quantitative methods effectively in economic analysis and decision-making

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Students will be able to effectively apply various statistical methods including hypothesis testing, regression analysis etc.

CO2: Students will be able to solve complex mathematical and economic problems

CO3: Students will be able to communicate quantitative results and interpretations clearly and effectively to both technical and non-technical audiences

CO4: Students will be able to integrate theoretical concepts from probability, statistics, and calculus with practical applications in economics
CO5: Students will demonstrate proficiency in utilizing computational tools for data analysis, enabling them to handle large datasets and conduct simulations efficiently

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1	Probability theory and distributions	10	Applying
2	Statistical inference estimation and hypothesis testing	11	Understanding
3	Elementary linear algebra	10	Understanding
4	Differential calculus and applications	11	Understanding and Analyzing
5	Integral calculus and economic applications	10	Applying

FINANCIAL ECONOMICS

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
MAJOR	ECM704	FINANCIAL ECONOMICS	4	0	0	4	52	4

Introduction:

This course introduces students to the economics of finance. Some of the basic models used to benchmark valuation of assets and derivatives are studied in detail; these include the CAPM, and the Pricing models. The course ends with a brief introduction to corporate finance.

Objectives:

1. To provide students with a foundational understanding of financial economics.
2. To explore the structure and function of financial institutions and markets.
3. To provide students with a comprehensive understanding of investment theory and bond valuation.
4. To provide a comprehensive knowledge of portfolio analysis.
5. To examine the fundamental concepts of options and derivatives.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Understand the fundamental concepts of financial economics.
CO2: Analyse the functions and challenges of financial institutions and markets.
CO3: Develop analytical and decision-making skills for evaluating investment opportunities and financial strategies.
CO4: Build a strong theoretical foundation and acquire practical skills essential for portfolio selection, risk assessment, and investment decision-making.
CO5: Assess the characteristics and applications of options and derivatives.

Unit No	Topics to be Covered	Period Number of Lecture(s	Learning Outcomes (Bloom's Taxonomy)

		)	
1.	Introduction to financial economics	10	Understanding
2.	Financial institutions, markets, instruments and financial innovations	10	Analyzing
3.	Capital budgeting and bond valuation	11	Understanding
4.	Portfolio analysis	10	Understanding and Evaluating
5.	Options and derivatives	11	Evaluating, Analyzing and Applying

RESEARCH METHODOLOGY IN ECONOMICS							
Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
ECM 705	RESEARCH METHODOLOGY IN ECONOMICS	4	0	0	4	52	4

Introduction:

The course is designed to strengthen students' capability to organize and conduct research on economic issues and problems. They will learn about the conceptual and philosophical basis of research methodology in economics. The course shall impart knowledge on to how to conduct applied economic research from topic selection, literature survey, formulation of research questions and hypothesis, selection of appropriate research method and empirical techniques, interpretation of results and inferences for policies.

Objectives:

1. To introduce the concept and significance of research, different research types, and the process of formulating research questions.
2. To explain primary and secondary data types, sampling methods and data sources for effective research.
3. To develop skills to analyze and present data using statistical tools and graphical methods
4. To teach hypothesis formulation, testing techniques, and error analysis in research.
5. To guide students in writing structured, clear, and effective research reports.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Students will able to define the concepts of research, its significance, and various research types, including pure, applied, analytical, and descriptive research methods.

CO2: Students will able to identify and distinguish between primary and secondary data types, sources, and sampling methods, and evaluate the reliability of different data sources.

CO3: Students will able to apply statistical tools and graphical methods to present and analyze socio-economic data, and interpret the results to draw meaningful conclusions.

CO4: Students will able to formulate hypotheses, differentiate between null and alternative hypotheses, and apply appropriate hypothesis testing techniques (parametric and non-parametric).

CO5: Students will able to compose a well-structured research report, understand the principles of report writing, and evaluate the significance and format of various types of research reports

Unit No	Topics to be Covered	Period Number	Learning Outcomes (Bloom's Taxonomy)

		of Lecture(s)	
1.	Introduction	10	Understanding
2.	Primary and secondary data	10	Understanding and Evaluating
3.	Presentation and preliminary analysis of data	11	Analyzing and Applying
4.	Hypothesis	11	Understanding and Applying
5.	Report writing	10	Understanding and Evaluating

Macroeconomic Theory								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM:801	Macroeconomic Theory	4	0	0	13	52	4

Introduction:

This course delves into the core principles and models of macroeconomics, exploring the dynamics of aggregate supply and demand, open economy frameworks, rational expectations, economic growth, and the evolution of macroeconomic thought. It equips students with the analytical tools to understand and evaluate macroeconomic phenomena and policies.

Objectives:

1. To provide a comprehensive understanding of macroeconomic models and their applications.
2. To analyse the determinants of aggregate output, employment, and inflation.
3. To evaluate the effectiveness of fiscal and monetary policies in stabilizing the economy.
4. To explore the dynamics of open economies and the role of exchange rates.
5. To understand the implications of rational expectations for economic policymaking.

Course Outcomes (CO):

At the end of the course, students will be able to

CO1: Analyze and apply macroeconomic models to understand real-world economic phenomena.

CO2: Evaluate the effectiveness of fiscal and monetary policies in achieving macroeconomic objectives.

CO3: Explain the dynamics of open economies and the role of exchange rates in international trade and finance.

CO4: Understand the implications of rational expectations for economic policymaking and the limitations of traditional policy approaches.

CO5: Critically assess different schools of macroeconomic thought and their contributions to the understanding of macroeconomic phenomena.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Review of aggregate supply-aggregate demand model	11	Analyzing and Applying
2.	Open economy models	10	Understanding and Evaluating
3.	Rational expectations, and implications for economic policy	11	Understanding

4.	Economic growth	10	Understanding and Evaluating
5.	Schools of macroeconomic thought	10	Explain and Assessing

International Trade & Finance								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 802	International Trade & Finance	4	0	0	4	52	4

Introduction:

This paper aims to explore the interconnectedness of economies through the impact of international trade and financial transactions.

Objectives:

1. To make students understand the benefits and costs of international trade
2. To assess economic performance and monitor international competitiveness
3. To make them analyze the foreign exchange market and the risks associated with foreign exchange
4. To make them understand and compare the role and work of different international financial institutions
5. To develop critical thinking regarding various issues and policies

Course Outcomes (CO):

At the end of the course, the student will be able to:
After completion of the course, students will be able to:
CO1: Analyze the complexities of international trade and its implications for business and government.
CO2: Understand economic relations and evaluate policy effectiveness
CO3:Understand the operations of the foreign exchange market and factors influencing foreign exchange movements
CO4:Analyze policies of different financial institutions concerning global issues.
CO5: Critically analyze international issues and policies.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Trade theories	14	Analyzing
2.	Balance of payments	12	Understanding
3.	Foreign exchange markets	14	Understanding and Analyzing
4.	International financial institutions	12	Analyzing
5.	International trade policies in India	13	Analyzing

Forecasting for Business And Economic								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM:803	Forecasting for Business And Economic	4	0	0	4	52	4

Introduction:

This course on forecasting will provide a comprehensive exploration of quantitative and qualitative methods thereby equipping the postgraduate students with essential skills in statistical analysis, regression techniques, and model evaluation. The course will prepare the students to make informed predictions and decisions across various industries and organizational contexts

Objectives:

1. To equip students with a solid foundation in forecasting principles, covering various data types, patterns, and methods to inform business and policy decisions
2. To equip students with the ability to apply statistical methods, including exponential smoothing, moving averages, and decomposition.
3. To provide students with the skills to apply simple and multiple regression, including stationarity tests and time series analysis, for the purpose of creating accurate predictive models.
4. To teach students to measure and enhance forecasting accuracy through summary statistics, mathematical transformations, and diagnostic checks
5. To prepare students to incorporate qualitative forecasting approaches such as the Delphi method, scenario building, and market research to complement quantitative methods in forecasting

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Students will exhibit a thorough understanding of forecasting principles, encompassing its significance, procedural steps, data types, and patterns, to effectively evaluate and apply forecasting techniques

CO2: Students will gain expertise in utilizing exponential smoothing methods and decomposition models to analyze time series data and produce precise forecasts using both additive and multiplicative approaches.

CO3: Students will be able to apply simple and multiple regression techniques for forecasting, including conducting unit root tests and evaluating time series data for stationarity

CO4: Students will be able to evaluate qualitative forecasting methods, such as the Jury of Executive Opinion and the Delphi approach, recognizing their strengths and limitations while applying them to real-world scenarios

CO5: Students will learn to synthesize quantitative and qualitative forecasting techniques, enhancing their ability to make informed decisions in diverse organizational contexts

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1	Introduction to forecasting	10	Understanding and Evaluating
2	Exponential smoothing methods and decomposition	11	Analyzing and Applying
3	Simple regression methods	11	Understanding and Applying
4	Multiple regression analysis	10	Evaluating and Applying
5	Qualitative and technological methods of forecasting	10	Evaluating

Business Environment								
Course	Course Code	Name of Course	L	T	P		Min.	Cred

Type						Period/week	pds./sem	it
Major	ECM 804	Business Environment	4	0	0	4	52	4

Introduction:

Business Environment is a fundamental course that explores the various external factors that influence the operations and success of businesses. This course provides a comprehensive understanding of the different environments in which companies operate, including social, cultural, political, legal, economic, technological, natural, and global factors.

Objectives:

1. To understand the concept of business environment and its components such as social, cultural, and corporate governance.
2. To analyse the impact of political-legal frameworks like competition law, state regulations, and corporate Governance regulations on businesses.
3. To examine the economic environment with a focus on growth, industrial policy, monetary and fiscal policies, and the GST.
4. To explore technological collaborations, mergers, green practices, and the natural environment's influence on businesses.
5. To gain insight into the global environment, including globalization strategies, foreign trade, and the role of international trading blocs such as WTO, Europen Union, ASEAN, and BRICS.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Understand the Business Environment: Comprehend the concept of the business environment and its various components, including social, cultural, and corporate governance factors that influence business operations.

CO2: Critically analyze the impact of political and legal frameworks, such as competition law, state regulations, and corporate governance regulations, on business decision-making and operations.

CO3: Examine the Economic Environment: Assess the economic environment with a focus on key factors such as economic growth, industrial policy, monetary policy, fiscal policy, and the Goods and Services Tax (GST), and how these affect business strategies.

CO4: Explore Technological and Environmental Factors: Investigate the role of technological collaborations, mergers, acquisitions, and green environmental practices in shaping business processes and compliance with environmental regulations.

CO5: Evaluate the Global Environment and the implications of globalization, including the strategies for entering global markets, foreign trade, export promotion, and the role of international trading blocs like the WTO, EU, ASEAN, SAARC, and BRICS on the business landscape.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Introduction to business environment	10	Understanding
2.	Political-legal environment	11	Analyzing
3.	Economic environment	13	Assessing
4.	Technological & natural environment	10	Exploring
5.	Global environment	11	Evaluating

Labour Economics

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min. pds./sem	Credit
Major	ECM 805	LABOUR ECONOMICS	4	0	0	4	52	4

Introduction:

This course delves into the fascinating world of work, labour markets, and the intricate dynamics between employers and employees. We will explore the factors that influence labour demand and supply, wage determination, human capital investment, and the role of labour market institutions and policies.

Objectives:

1. To understand the fundamental concepts of labour economics, including labour demand, labour supply, and labour market equilibrium.
2. To analyse the factors that determine wages, earnings, and income inequality.
3. To examine the role of education, training, and human capital in labour market outcomes.
4. To evaluate the impact of labour market institutions and policies on workers, firms, and the economy.
5. To develop critical thinking skills for analysing contemporary labour market issues.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Explain the determinants of labour demand and supply and their interaction in the labour market.
CO2: Analyse the factors that influence wage differentials and income distribution.
CO3: Evaluate the importance of human capital investment and its impact on earnings and productivity.
CO4: Assess the role of labour unions, minimum wage laws, and other labour market institutions in shaping labour market outcomes.
CO5: Apply economic principles to analyse contemporary labour market issues such as unemployment, discrimination, and globalization.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Labour demand	10	Understanding
2.	Labour supply and labour market equilibrium	11	Understanding and Analyzing
3.	Human capital and investment in education	10	Analyzing and Evaluating
4.	Wage structure and differentials	11	Assessing
5.	Labour market institutions and policies	10	Understanding, Evaluating and Applying

POST GRADUATE PROGRAMME

PROGRAMME EDUCATIONAL OBJECTIVES

PEO1: To develop an advanced theoretical proficiency among the students.
PEO2: To develop strong skills in quantitative methods, including the ability to use mathematical models, statistical tools, and econometric techniques for data analysis and economic forecasting.
PEO3: To train students to critically evaluate economic policies, assess economic problems, and propose feasible solutions by integrating theory with empirical evidence.

PEO4: To enable students to conduct independent research by developing hypotheses, applying relevant economic models, using statistical tools, and interpreting the results.
PEO5: To prepare the students to analyze public policies, evaluate their impact on society and economy, and provide insights into policy formulation and implementation at the national and international levels.
PEO6: To enhance communication skills for articulating economic concepts and analyses clearly to varied audiences
PEO7: To develop the understanding of how global economic trends affect local economies and how to apply economic principles to real-world issues such as globalization, inequality, sustainability, and economic development.
PEO8: To develop an understanding of the ethical considerations in economic research and policy-making, such as ensuring fairness, equity, and sustainability in economic decisions that affect society at large.

PROGRAMME SPECIFIC OUTCOMES

PO1: Advanced Economic Theory and Application: Students will have an in-depth understanding of advanced microeconomic and macroeconomic theories, including complex models of consumer behavior, market structures, economic growth, and business cycles. They will be able to apply these theories to analyze policy and business strategies at a high level.
PO2: Proficiency in Econometric and Statistical Techniques: Students will gain advanced skills in econometrics and statistical analysis, including proficiency in using specialized software (such as R, STATA, or SAS). They will be able to conduct empirical research, estimate econometric models, and test economic hypotheses using real-world data.
PO3: Public Policy Design and Evaluation: Students will acquire the ability to design, evaluate, and critique economic policies, especially in areas like taxation, healthcare, education, poverty alleviation, and environmental regulation. They will understand the trade-offs involved in policy decisions and be able to provide policy recommendations based on economic analysis.
PO4: Research and Independent Inquiry: Students will develop the capacity to conduct independent research, including formulating research questions, conducting literature reviews, gathering and analyzing data and presenting findings. This will prepare them for roles in research institutions, think tanks or academic careers.
PO5: Development Economics and Social Welfare Analysis: Students will acquire expertise in development economics, focusing on issues such as poverty, inequality, sustainable development, and the role of institutions in economic development. They will learn to evaluate the effectiveness of policies aimed at national and international levels.
PO6: Clear Communication Skills: Students will effectively articulate economic concepts and analyses to a variety of stakeholders, both in oral and written forms.
PO7: Global Economic Analysis and International Trade: Students will understand complex global economic phenomena, including international trade, capital flows, exchange rates, and global financial systems. They will be able to assess how globalization and international economic policies impact national and regional economies.
PO8: Ethical and Professional Responsibility: Students will be trained to consider the ethical implications of economic decisions, especially in relation to equity, fairness and social justice. They will understand their responsibility as economists to provide analysis and recommendations that promote sustainable and inclusive economic growth.

Post Graduate Diploma in Business Economics (PGDBE)

Microeconomic Theory								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit

Major	DBE 701	Microeconomic Theory	5			5	65	5

Introduction:

This paper aims to provide students with a rigorous understanding of the behavior of individual economic agents and the markets in which they interact.

Objectives:

1. To make them students analyze consumer behaviour under different situations
2. To enable them to do a cost-benefit analysis of any firm.
3. To make them understand different market structures and their implications for firms and consumers
4. To understand the factors determining input prices under different market conditions
5. To make them understand the limitations of market mechanisms and required conditions for efficient allocation of resources.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Analyze consumer behaviour in different market conditions

CO2: Analyze production decisions of firms under different circumstances

CO3: Analyze firms' behavior and the markets' functioning in different contexts.

CO4: Establish the interlinkages of factors that determine the pricing of inputs, additionally, the role of labour markets and public policies to understand the concept of general equilibrium and its implications for economy.

CO5: Analyze the limitations of market mechanisms and evaluate the necessary conditions for achieving efficient allocation of resources in various economic systems.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Consumer theory	11	Analyzing
2.	Producer and cost theory	10	Analyzing
3.	Firms and market structure	10	Analyzing
4.	Input markets	11	Understanding
5.	General equilibrium and welfare	10	Analyzing and Evaluating

Indian Economy-Development, Perspectives. & Challenges

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min. pds./sem	Credit
Major	DBE 702	Indian Economy-Development, Perspectives. & Challenges	5	0	0	5	65	5

Introduction:

This course provides an in-depth exploration of the development, perspectives, and challenges of the Indian economy from 1950 to the present. It covers various aspects of economic growth, sectorial performance, employment, poverty, infrastructure development, and contemporary economic issues. By studying the growth trajectory of India, demographic trends, poverty alleviation efforts, and the development of infrastructure, students will gain insights into the challenges and opportunities faced by the Indian economy.

Objectives:

6. To understand the evolution of the Indian Economy, focusing on the role of planning, the agricultural sector, industry, and services, along with the impact of foreign investment.
7. To assess the demographic challenges faced by India, including population growth, labour force participation, and gender dynamics in the workforce.
8. To evaluate the methods used to measure poverty in India, understand the poverty-employment interface, and explore the effectiveness of poverty alleviation policies such as MGNREGA and expert group recommendations.
9. To investigate the role of both economic and social infrastructure—such as energy, transport, education, and healthcare—in supporting India's economic growth.
10. To analyze current economic issues in India, including fiscal federalism, the Goods and Services Tax (GST), demonetization, and the role of the Monetary Policy Committee in shaping monetary policy and fiscal transfers.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Evaluate the patterns of accumulation, planning, and growth in the Indian economy, and assess the performance of key sectors.

CO2: Critically assess India's demographic challenges, including population growth and labour absorption, and examine employment and unemployment trends, with a focus on measurement issues and women's participation in the workforce.

CO3: Understand and critically evaluate different methodologies used for estimating poverty in India, and explore the relationship between poverty, and employment.

CO4: Analyse the development and financing of India's economic and social infrastructure, and assess government initiatives and future challenges in infrastructure development.
CO5: Critically assess contemporary issues such as fiscal federalism, the implementation of GST, demonetization, and the role of the Monetary Policy in shaping India's economic and monetary policies.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	The growth of Indian economy 1950-2024	15	Understanding and Evaluating
2.	Employment and unemployment	13	Analyzing and Assessing
3.	Poverty	13	Understanding, Evaluating and Applying
4.	Infrastructure development in India	12	Understanding and Evaluating
5.	Contemporary economic issues in India	12	Assessing

Quantitative Techniques for Business & Economic Analysis

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	DBE:703	Quantitative Techniques for Business & Economic Analysis	5	0	0	13	65	5

Introduction:

This course provides an essential foundation in quantitative methods, highlighting their critical role in decision-making, policy analysis, and effective data interpretation in economics and beyond. Students will learn to apply probability, statistical inference, linear algebra, and calculus, equipping them with the analytical skills needed to address complex economic challenges and inform policy decisions effectively

Objectives:

1. To prepare students for advanced study and professional roles where quantitative analysis and mathematical modelling is essential
2. To develop and enhance analytical and mathematical skill in Economics
3. To learn to utilize quantitative methods to address economic problems and interpret data for better policy decisions
4. To foster critical thinking and learn to approach complex quantitative problems in the light of underlying assumptions and limitations of different statistical and mathematical models
5. To connect theoretical concepts with real-world situations through real life cases and enables them to apply quantitative methods effectively in economic analysis and decision-making.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Students will be able to effectively apply various statistical methods including hypothesis testing, regression analysis etc.

CO2: Students will be able to solve complex mathematical and economic problems

CO3: Students will be able to communicate quantitative results and interpretations clearly and effectively to both technical and non-technical audiences

CO4: Students will be able to integrate theoretical concepts from probability, statistics, and calculus with practical applications in economics

CO5: Students will demonstrate proficiency in utilizing computational tools for data analysis, enabling them to handle large datasets and conduct simulations efficiently

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1	Probability theory and distributions	10	Applying
2	Statistical inference estimation and hypothesis testing	11	Understanding
3	Elementary linear algebra	10	Understanding
4	Differential calculus and applications	11	Understanding and Analyzing
5	Integral calculus and economic applications	10	Applying

Financial Economics

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	DBE 704	Financial Economics	5			5	65	5

Introduction:

This course introduces students to the economics of finance. Some of the basic models used to benchmark valuation of assets and derivatives are studied in detail; these include the CAPM, and the Pricing models. The course ends with a brief introduction to corporate finance.

Objectives:

1. To provide students with a foundational understanding of financial economics.
2. To explore the structure and function of financial institutions and markets.
3. To provide students with a comprehensive understanding of investment theory and bond valuation.
4. To provide a comprehensive knowledge of portfolio analysis.
5. To examine the fundamental concepts of options and derivatives.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Understand the fundamental concepts of financial economics.

CO2: Analyse the functions and challenges of financial institutions and markets.

CO3: Develop analytical and decision-making skills for evaluating investment opportunities and financial strategies.

CO4: Build a strong theoretical foundation and acquire practical skills essential for portfolio selection, risk assessment, and investment decision-making.

CO4: Assess the characteristics and applications of options and derivatives.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Introduction to financial economics	10	Understanding
2.	Financial institutions, markets, instruments and financial innovations	10	Analyzing
3.	Capital budgeting and bond valuation	11	Understanding
4.	Portfolio analysis	10	Understanding and Evaluating
5.	Options and derivatives	11	Evaluating, Analyzing and Applying

Macroeconomic Theory

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	DBE 801	Macroeconomic Theory	5	0	0	5	65	5

Introduction:

This course delves into the core principles and models of macroeconomics, exploring the dynamics of aggregate supply and demand, open economy frameworks, rational expectations, economic growth, and the evolution of macroeconomic thought. It equips students with the analytical tools to understand and evaluate macroeconomic phenomena and policies.

Objectives:

1. To provide a comprehensive understanding of macroeconomic models and their applications.
2. To analyse the determinants of aggregate output, employment, and inflation.
3. To evaluate the effectiveness of fiscal and monetary policies in stabilizing the economy.
4. To explore the dynamics of open economies and the role of exchange rates.
5. To understand the implications of rational expectations for economic policymaking.

Course Outcomes (CO):

At the end of the course, students will be able to

CO1: Analyze and apply macroeconomic models to understand real-world economic phenomena.

CO2: Evaluate the effectiveness of fiscal and monetary policies in achieving macroeconomic objectives.
CO3: Explain the dynamics of open economies and the role of exchange rates in international trade and finance.
CO4: Understand the implications of rational expectations for economic policymaking and the limitations of traditional policy approaches.
CO5: Critically assess different schools of macroeconomic thought and their contributions to the understanding of macroeconomic phenomena.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Review of aggregate supply-aggregate demand model	11	Analyzing and Applying
2.	Open economy models	10	Understanding and Evaluating
3.	Rational expectations, and implications for economic policy	11	Understanding
4.	Economic growth	10	Understanding and Evaluating
5.	Schools of macroeconomic thought	10	Explain and Assessing

International Trade & Finance

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	DBE 802	International Trade & Finance	5			5	65	5

Introduction:

This paper aims to explore the interconnectedness of economies through the impact of international trade and financial transactions.

Objectives:

1. To make students understand the benefits and costs of international trade
2. To assess economic performance and monitor international competitiveness
3. To make them analyze the foreign exchange market and the risks associated with foreign exchange
4. To make them understand and compare the role and work of different international financial institutions
5. To develop critical thinking regarding various issues and policies.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Better analyze the complexities of international trade and its implications for business and government.
CO2: Understand economic relations and evaluate policy effectiveness
CO3:Understand the operations of the foreign exchange market and factors influencing foreign exchange movements
CO4:Analyze policies of different financial institutions concerning global issues Better analyze international issues and policies critically

Unit No	Topics to be Covered	Period Number of	Learning Outcomes (Bloom's Taxonomy)

		Lecture(s)	
1.	Trade theories	14	Analyzing
2.	Balance of payments	12	Understanding
3.	Foreign exchange markets	14	Understanding and Analyzing
4.	International financial institutions	12	Analyzing
5.	International trade policies in India	13	Analyzing

Forecasting For Business and Economic								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	DBE:803	Forecasting for Business and Economic	5	0	0	5	65	5

Introduction:

This course on forecasting will provide a comprehensive exploration of quantitative and qualitative methods thereby equipping the postgraduate students with essential skills in statistical analysis, regression techniques, and model evaluation. The course will prepare the students to make informed predictions and decisions across various industries and organizational contexts

Objectives:

1. To equip students with a solid foundation in forecasting principles, covering various data types, patterns, and methods to inform business and policy decisions
2. To equip students with the ability to apply statistical methods, including exponential smoothing, moving averages, and decomposition.
3. To provide students with the skills to apply simple and multiple regression, including stationarity tests and time series analysis, for the purpose of creating accurate predictive models.
4. To teach students to measure and enhance forecasting accuracy through summary statistics, mathematical transformations, and diagnostic checks
5. To prepare students to incorporate qualitative forecasting approaches such as the Delphi method, scenario building, and market research to complement quantitative methods in forecasting.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Students will exhibit a thorough understanding of forecasting principles, encompassing its significance, procedural steps, data types, and patterns, to effectively evaluate and apply forecasting techniques

CO2: Students will gain expertise in utilizing exponential smoothing methods and decomposition models to analyze time series data and produce precise forecasts using both additive and multiplicative approaches.

CO3: Students will be able to apply simple and multiple regression techniques for forecasting, including conducting unit root tests and evaluating time series data for stationarity

CO4: Students will be able to evaluate qualitative forecasting methods, such as the Jury of Executive Opinion and the Delphi approach, recognizing their strengths and limitations while applying them to real-world scenarios

CO5: Students will learn to synthesize quantitative and qualitative forecasting techniques, enhancing their ability to make informed decisions in diverse organizational contexts

Unit No	Topics to be Covered	Period Number	Learning Outcomes (Bloom's Taxonomy)

		of Lecture(s)	
1	Introduction to forecasting	10	Understanding and Evaluating
2	Exponential smoothing methods and decomposition	11	Analyzing and Applying
3	Simple regression methods	11	Understanding and Applying
4	Multiple regression analysis	10	Evaluating and Applying
5	Qualitative and technological methods of forecasting	10	Evaluating

Business Environment								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min. pds./sem	Credit
Major	DBE 804	Business Environment	5	0	0	5	65	5

Introduction:

Business Environment is a fundamental course that explores the various external factors that influence the operations and success of businesses. This course provides a comprehensive understanding of the different environments in which companies operate, including social, cultural, political, legal, economic, technological, natural, and global factors.

Objectives:

1. To understand the concept of business environment and its components such as social, cultural, and corporate governance.
2. To analyse the impact of political-legal frameworks like competition law, state regulations, and corporate Governance regulations on businesses.
3. To examine the economic environment with a focus on growth, industrial policy, monetary and fiscal policies, and the GST.
4. To explore technological collaborations, mergers, green practices, and the natural environment's influence on businesses.
5. To gain insight into the global environment, including globalization strategies, foreign trade, and the role of international trading blocs such as WTO, Europen Union, ASEAN, and BRICS.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Understand the Business Environment: Comprehend the concept of the business environment and its various components, including social, cultural, and corporate governance factors that influence business operations.

CO2: Critically analyze the impact of political and legal frameworks, such as competition law, state regulations, and corporate governance regulations, on business decision-making and operations.

CO3: Examine the Economic Environment: Assess the economic environment with a focus on key factors such as economic growth, industrial policy, monetary policy, fiscal policy, and the Goods and Services Tax (GST), and how these affect business strategies.

CO4: Explore Technological and Environmental Factors: Investigate the role of technological collaborations, mergers, acquisitions, and green environmental practices in shaping business processes and compliance with environmental regulations.

CO5: Evaluate the Global Environment and the implications of globalization, including the strategies for entering global markets, foreign trade, export promotion, and the role of international trading blocs like the WTO, EU, ASEAN, SAARC, and BRICS on the business landscape.

Unit No	Topics to be Covered	Period Number	Learning Outcomes (Bloom's Taxonomy)

		of Lecture(s)	
1.	Introduction to business environment	10	Understanding
2.	Political-legal environment	11	Analyzing
3.	Economic environment	13	Assessing
4.	Technological & natural environment	10	Exploring
5.	Global environment	11	Evaluating

M.A. (Applied Economics)

Basic Res. Meth., Stat. Tools & Anal.								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 001	Basic Res. Meth., Stat. Tools & Anal.	4			4	52	4

Introduction:

This paper aims to equip students with the knowledge and skills necessary to conduct effective research. It provides a systematic framework for understanding and applying research methods and techniques.

Objectives:

1. To provide a foundational understanding of the research process.
2. To enable students to create a blueprint for conducting research that will effectively address the research question and produce reliable results.
3. To equip students with the knowledge and skills necessary to gather and record data for research purposes.
4. To provide a comprehensive understanding of various data analysis techniques and their applications
5. To develop knowledge and skills to effectively communicate their research findings in a clear, concise, and organized manner.

Course Outcomes (CO):

At the end of the course, the student will be able to:
After completion of the course, students will be able to:
CO1:Use essential knowledge and skills to embark on their research endeavours.
CO2: Create a sound and effective plan for conducting research.
CO3: Collect accurate and reliable data for their studies.
CO4: Effectively analyze and interpret data, contributing to the advancement of knowledge in their field.
CO5: To effectively communicate their research findings in a clear, concise, and organized manner.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Introduction	10	Understanding
2.	Research design	10	Creating

3.	Data collection	10	Executing
4.	Analysis and interpretation	10	Analyzing
5.	Research report writing	12	Implementing

Agricultural Economics								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 902	Agricultural Economics	4	0	0	4	52	4

Introduction:

This course introduces the economic, ecological, and social aspects of agricultural resources. It covers resource management, sustainability indicators, land and water conservation, and rural livelihoods. Students will explore policy frameworks, institutional roles, and sustainable practices to address population pressure, resource degradation, and support sustainable agricultural development.

Objectives:

1. To equip students with a conceptual framework to understand the relationship between natural resources, such as land and water, and their carrying capacity.
2. To help students understand the patterns of land use in agriculture, focusing on land capability, the consequences of urbanization on agricultural land.
3. To explore water resource potential, challenges, and institutional policies in water allocation and disaster management for agriculture.
4. To study the interlinking of land and water conservation through policy measures, watershed development, and Command Area Development programs.
5. To examine sustainable livelihood strategies in rural areas through the integration of indigenous and coping technologies, the roles of extensification and intensification of agriculture, and the contributions of the state and NGOs in promoting livelihood security.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Understand the concepts of resource management, population pressure, and sustainability in agriculture.
CO2: Analyze land resource utilization, degradation, and the impacts of urbanization on agriculture.
CO3: Evaluate water resource management, including usage, distribution, and institutional frameworks in agriculture.
CO4: Assess land and water conservation policies and strategies for sustainable agricultural development.
CO5: Explore sustainable rural livelihoods, indigenous technologies, and the role of state and NGOs in agriculture.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1	Conceptual framework	10	Understanding
2	Land resources in agriculture	10	Analyzing
3	Water resources in agriculture	10	Understanding and Evaluating
4	Interlinking land and water conservation and	12	Evaluating

	development		
5	Sustainable rural livelihood	12	Understanding and Exploring

Industrial Economics								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 903	Industrial Economics	4	0	0	4	52	4

Introduction:

Industrial economics is a branch of economics that focuses on the behavior, structure, and performance of industries and markets. It examines how firms interact within various market structures and how these interactions affect competition, pricing, and resource allocation.

Objectives:

1. To analyze different market structures and their characteristics, implications for firm behavior, and market outcomes.
2. To understand market behavior under different dynamics and to examine the role of innovation and technological change in shaping industry dynamics and firm performance.
3. To analyze the evolution of industrial policies in India from pre-independence to the present, its role, policy measures that focuses on key milestones and policy shifts.
4. To investigate specific policies (growth and structure) in targeting various sectors (e.g., manufacturing, services, small-scale industries) and their effectiveness in promoting industrial development.
5. To evaluate and assess global trends and impact of industrial reforms, including deregulation, privatization, and liberalization, and their impact on Indian economy.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Understand different market structures (concept and dynamics) and assess how firms operate within various market dynamics, including their product pricing strategies, market entry or exit strategies, product differentiation and economies of scale.

CO2: To explore how firms behave and make strategic decisions regarding pricing, output, and investment in various market environments.

CO3: to assess firm's growth, productivity and capacity utilization for sustained industrial growth in India that can lead to improved competitiveness and economic resilience in a global context.

CO4: To understand and explore cottage industries, SMEs, and large-scale industries, including their roles, source of funding, challenges and industrial sickness for resilient growth and environmental stewardship.

CO5: To apply theoretical concepts to real-world case studies, enhancing their ability to analyze current issues in industrial economics.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Introduction	10	Analyzing
2.	Market behaviour	10	Understanding
3.	Indian industrial policy pattern	10	Analyzing
4.	Growth and structure	12	Understanding and Analyzing
5.	Industrial reforms	12	Understanding, Analyzing and Applying

Econometric Methods with Applications								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 905	Econometric Methods with Applications	4	0	0	4	52	4

Introduction:

This paper aims to introduce students to the concept of econometrics as a quantitative approach to analyzing economic data and testing economic theories.

Objectives:

1. To familiarize students with the wide range of applications of econometrics in various fields
2. To enhance students' ability to estimate, interpret, and evaluate regression models using statistical software.
3. To identify common problems that can arise in regression analysis, such as multicollinearity, heteroscedasticity, and autocorrelation.
4. To introduce students to the concept of specification errors in regression models and their potential consequences for the validity of the results.
5. To equip students with the knowledge and skills to conduct various specification tests to assess the adequacy of a regression model.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Understand the basic principles and methods of econometrics

CO2: Understand the theoretical underpinnings of classical linear regression models and their applications in various fields.

CO3: Estimate regression models using statistical software and interpret the estimated coefficients.

CO4: Recognize and address potential issues in regression analysis, such as multicollinearity, heteroscedasticity, and autocorrelation.

CO5: Critically evaluate the specification of regression models and ensure the validity and reliability of their results.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Nature and scope of econometrics & review of statistics	10	Understanding
2.	Classical linear regression model	10	Understanding and applying
3.	Classical multiple linear regression model	10	Understanding
4	Violations of classical assumptions	10	Recognizing
5	Specification analysis	12	Evaluating

Economics of Insurance								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM 906	Economics of Insurance	4	0	0	4	48	4

Introduction:

This course provides a comprehensive exploration of the economics of insurance. Designed for MA students in Social Sciences, it delves into the various aspects of general, life, and health insurance. The

course is structured into five units, each covering a distinct area of insurance theory and practice.

Objectives:

1. To develop a comprehensive understanding of insurance concepts and the underlying economic principles.
2. To analyse the role of insurance in economic development and explore the impact of insurance on economic growth, risk management, and social welfare.
3. To evaluate the different types of insurance products and their functions for individuals and businesses.
4. To understand the regulatory framework governing the insurance industry and policies that governs the insurance sector.
5. To apply insurance knowledge to real-world scenarios to analyse insurance markets, evaluate insurance products, and make informed decisions.

Course Outcomes (CO):

At the end of the course, the student will be able to:
CO1: Developed an understanding of the various types of insurance, their functions, and the underlying economic principles.
CO2: Assess the suitability and benefits of various insurance products for individuals and businesses.
CO3: Understand the regulatory framework governing the insurance industry and have knowledge of the regulatory bodies, laws, and policies that govern the insurance sector.
CO4: Apply insurance knowledge to real-world scenarios to analyse insurance markets, evaluate insurance products, and make informed decisions.
CO5: Critically evaluate insurance policies and practices: Students will be able to assess the effectiveness and fairness of insurance policies and practices.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1	Essentials of general insurance	12	Understanding
2	Essentials of life and health insurance	10	Assessing
3	Essentials of health insurance	10	Understanding
4	Insurance and economic development concepts and perspectives	10	Evaluating
5	Insurance markets and regulation of insurance	10	Understanding and Evaluating

Development Economics

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min. pds./sem	Credit
Major	ECM 907	Development Economics	4	0	0	4	52	4

Introduction:

Development Economics is a comprehensive course designed to explore the dynamics of economic growth and development. This course covers key concepts, theories, and empirical evidence related to the development process of nations, addressing both historical and modern perspectives.

Objectives:

1. To understand the foundations of economic development including alternative approaches and the trade-offs.
2. To explore classical and modern theories of development and their applicability to diverse development contexts.
3. To analyse development strategies and experiences into various development strategies, including planning models, export-led growth, and import substitution.
4. To evaluate contemporary development challenges and solutions proposed by contemporary development economists.
5. To develop analytical and research skills necessary to conduct independent research and contribute to the field of development economics.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Apply development metrics and interpret development indicators such as National Income, Per Capita Income, HDI, and PQLI to assess the development levels of different countries.

CO2: Critically evaluate Economic Theories and compare classical and modern development theories, understanding their relevance and application to current economic challenges.

CO3: Evaluate various economic growth models, including balanced vs. unbalanced growth, export-led growth, and import substitution strategies, and apply them to real-world development scenarios.

CO4: Understand the importance of technological change, human capital formation, and innovation in driving economic development.

CO5: Examine the Global Development Experiences of East Asian and South Asian countries, identifying key factors that contributed to their economic success or challenges.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Economic growth and development	10	Analyzing and Applying
2.	Approaches to the theory of development	10	Analyzing
3.	Partial theories	10	Evaluating
4.	Modern theories	12	Understand
5.	Development planning	10	Assessing

Ph.D. Course Work

Advance Research Methodology & Analysis								
Course Type	Course Code	Name of Course	L	T	P	Period/week	Min.pds./sem	Credit
Major	ECM954	Advance Research Methodology & Analysis	4			4	52	4

Introduction:

This course will provide the comprehensive framework for designing and executing research across various disciplines. This course emphasizes both qualitative and quantitative methods, equipping students with sophisticated techniques for data collection, analysis, and interpretation

Objectives:

1. To provide students with a foundational understanding of research principles and methodologies.
2. To equip students with the skills to conduct a comprehensive literature review and develop a conceptual framework.
3. To familiarize students with various data collection methods and techniques
4. To provide students with the tools and techniques necessary for effectively analyzing data.
5. To equip students with the skills to effectively write research reports.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1: Demonstrate the fundamental knowledge of research philosophies, qualitative and quantitative research and research process.

CO2: Evaluate the processes of writing a literature review, including drafting, referencing, and citation practices.

CO3: Demonstrate various types of data and tools for data collection including measurement scale, techniques, cleaning and sampling.

CO4: Apply descriptive and inferential statistics, multivariate analysis techniques and interpret research results effectively.

CO5: Understand basic concepts of various types of research reports, report writing and publications.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Introduction to research	12	Understanding and Demonstrate
2.	Literature review and conceptual framework	10	Analyzing
3.	Data collection	10	Demonstrate
4.	Data analysis	10	Applying
5.	Report writing, presentation, and publication of research	10	Understanding

Economic Analysis & Policy

Course Type	Course Code	Name of Course	L	T	P	Period/week	Min. pds./sem	Credit
Major	ECM 955	Economic Analysis & Policy	4	0	0	4	52	4

Introduction:

This course will provide a comprehensive exploration of key economic concepts and their applications in real-world scenarios. This course is designed to equip students with advanced knowledge and tools to analyze and apply economic principles to real-world policy challenges, particularly those relevant to developing economies like India.

Objectives:

1. To develop a deep understanding of economic theory for a solid foundation in key economic concepts, including consumer and producer theory, international trade, economic growth, and development.
2. To analyze economic phenomena and policy measures critically to evaluate economic events, policies, and models.
3. To apply economic tools to solve real-world problems to address practical challenges and make informed policy recommendations.
4. To investigate key development challenges, including poverty, unemployment, and resource management, and propose viable policy solutions.
5. To enhance research skills and capabilities in the field of economics to conduct independent research, analyze data, and contribute to scholarly discussions.

Course Outcomes (CO):

At the end of the course, the student will be able to:

CO1 Demonstrate a deep understanding of consumer and producer theories, enabling the assessment of decision-making processes in various economic contexts.

CO2 Effectively utilizes key economic models, such as the multiplier effect and trade theories, to analyze and predict economic phenomena in both domestic and international settings.

CO3 Critically assesses the effectiveness of fiscal and monetary policies in addressing economic challenges, particularly in the context of India's economy.

CO4 Articulate the complexities of trade flows and specialization, leveraging classical, neo-classical, and modern trade theories to evaluate global economic interactions.

CO5 Bridge theoretical knowledge with real-world applications, conducting analyses that connect economic concepts to current events and policy discussions.

Unit No	Topics to be Covered	Period Number of Lecture(s)	Learning Outcomes (Bloom's Taxonomy)
1.	Consumer and producer theory	10	Understanding
2.	Static model of the open economy	10	Analyzing
3.	Trade flows	10	Identifying
4.	Economic growth and development	12	Evaluating
5.	India's economy	10	Understanding

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