DEPARTMENT OF ECONOMICS

SUBJECTS UNDER FYUGP

SEMESTER	NAME OF SUBJECT
SEM I	1. Introductory Economics (Major)-ECO010104 2. Data collection and Presentation (SEC)
SEM II	1. Basic Elements of Economics (major)- ECO020104 2. Statistical techniques for research methods- (SEC)
SEM III	1. Intermediate Economics (Major)- ECO030104 2. Indian Economy (Major) 3. Data analysis in social science (SEC)
SEM IV	1. Public Finance (Major)-ECO040104 2. Advanced Macroeconomics (Major)-ECO040204 3. Introductory quantitative techniques for economics (Major)-ECO040304 4. Advanced Microeconomics (Major)-ECO040404
SEM V	1. Development Economics (Major)-ECO050104 2. Indian Economy (Major)-ECO050204 3. International Economics (Major)-ECO050304 4. Intermediate quantitative techniques for economics (Major)-ECO050404
SEM VI	1. Assam Economy (Major)-ECO060104 2. Basics of Econometrics (Major)-ECO060204 3. Fundamental of Financial analysis (Major)-ECO060304 4. Environmental economics (Major)-ECO060404

PROGRAMME OUTCOME OF BA (Economics)- Odd & Even semester

PO1: Students can gain deep knowledge of economic theories, policies and applications

PO2: Capability of students to connect economics with other subjects through minors and electives.

PO3: Students can understand the Indian Economy and Global economy issues for informed decision making.

PO4: Students can prepare for jobs in teaching, banking, Business Administration and research.

PO5: students can develop social responsibility, ethical values, an awareness of sustainable development.

PO6: After completing graduation, students will develop the ability to conduct independent research, surveys, and dissertation work.

Course Outcome (CO) Under Four Year Undergraduate Programme (FYUGP)

Semester	Paper	Course Outcome	Units	Unit wise learning objectives
BA/BSc. 1st Semester	**Introductory Economics**	1.The course provides the students with the basic understanding of the fundamentals of micro economics which includes the problem of choice, optimization of economic agents, consumer behaviour and demand analysis. 2. Basic understanding of market structure and equilibrium in various market forms and efficiency of market equilibrium. 3.The course would enable the students get ideas about the related aggregates of national income, balance of payments, basic concepts of unemployment and inflation. 4.The course imparts the understanding of Keynesian approach to income determination and multiplier analysis and application.	Unit 1: The Essences of the Economic Problem	1.Understand the concept of scarcity, choice, opportunity cost in decision making 2.Explain the law of demand and apply and calculate different types of elasticity 3.Analyse the concept of production, cost, supply and elasticity of supply in real world context
			Unit 2: Market and Its Role in the Economy	1.Differentiate between various market situation 2.Analyse how individual demand and supply aggregate to market demand and supply

		5.Besides the course provides the students with the knowledge of taxation and Government budget.		3.Determine and evaluate condition for stability of equilibrium 4.Assess consumer surplus, producer surplus and efficiency of competitive market equilibrium
			Unit 3: National Income and its Measurement	1.Explain the transition from microeconomics to macroeconomics and different methods of calculating national income 2.Identify and compute measures of National Income 3.Discuss issues of unemployment inflation and balance of payment in the context of national income
			Unit 4: Macroeconomic Equilibrium and Income Determination	1.Apply the concept of macroeconomic equilibrium using ex-ante and ex-post savings and investment

		6.Students are able to determine specific data needs and can also select various tools and techniques to investigate any problem or issues, which is the initial step to carry out any research activity.		2.Interpretate the process of income determination 3.Analyse how equilibrium output and employment are determined in a closed economy
			Unit 5: Basic Concepts in Public Finance Operations .	1.Understand the nature, type, effects of different taxes 2.Analyse the rate of government budget 3.Evaluate the implication of fiscal and primary deficits on the economy

BA/BSc. 1st Semester	**Skill Enhancement Course**	1.Understand the multifaceted dimensions research methodology in social science Practical application in pragmatic exercises involving data entry & analysis using computational tools like MS-Excel	Unit-1: use of data	1.Understand the importance of data in social sciences.
			Unit-2: Questionaries and schedules	2.Develop skills to prepare a structural questionnaires and interview schedule
			Unit-3: Presentation of data	3.Interpretate and analysis data pattern from graphical presentation

BA/BSc. 2nd Semester	**Basic Elements of Economics**	1.The course is designed to introduce the students to the basic ideas of sampling and sampling design, Development Economics, Indian Economy and financial system. 2.The focus will be on exposing the students to the various issues of global and national economy along with basic statistical tools for analysing these issues. 3.The course intends to provide the students with basic understanding of Index numbers and their use in real life situations. 4. Besides the course provides the idea of growth and development specific indicators to compare and analyse the growth trends.	Unit 1: Basics of data collection Unit 2: Index Number Unit 3: Economic growth and development Unit 4: Financial System and its functions Unit 5: Basic features of Indian economy	1.Interpretate statistical results for real world economic data 2.Apply index no. to measure changes in prices and cost of living 3.Evaluate human development using HDI 4.Assess the significance of financial institution in the Indian Economy 5.Analyse the sectoral composition of GDP and the concept of demographic dividend

BA/BSc. 2nd Semester	**Statistical Techniques for Research Methods (SEC)**	1.Understand the multifaceted dimensions research methodology in social science Practical application in pragmatic exercises involving data entry & analysis using computational tools like MS-Excel	Unit-1: overview of statistics Unit-2: measures of central tendency Unit-3: measures of dispersion Unit-4: measures of relationship Unit-5: assignments/project work	1.Explain why statistics in research and decision making 2.Select the most suitable measure of central tendency depending on the nature of data. 3.Interpret the different measures of dispersion and their applicability in real life situation 4.Demonstrate the use of correlation and regression in economic and social research 5.Develop research and analytical skills through hand-on-application

BA/BSc. 3rd Semester	**Intermediate Economics**	1.The course imparts the understanding of consumer's behaviour, optimization of choice and derivation of demand theorem. 2.The course would enable the students get ideas about the theories of production and cost structures of firms and their application. 3.Basic understanding of classical theory of employment, demand for money, determination of interest rates and income determination with rate of interest. 4.Understanding of banking system and credit creation process	Unit- 1 Consumer's Behaviour Unit -2 Theory of Production and Cost Unit-3 Firm's Revenue and Equilibrium Unit-4 Money, Interest, Income Unit-5 Credit Creation, Money Supply and Inflation Unit-6 Elements of International Trade Theory	1.Derive and interpret demand curves from consumer optimization 2.Understand homogeneity of production function and returns to scale 3.Evaluate the need for regulation of monopoly in modern economics 4.Define and explain the function of money with interest in an economy 5.Evaluate the role of central banks and tools of monetary control in regulating inflation and stabilizing the economy 6.Apply trade theories to interpret real world trade patterns and policies

BA 3rd Sem	**Data analysis in Social Sciences**	1.Understand the multifaceted dimensions research methodology in social science 2.Practical application in pragmatic exercises involving data entry & analysis using computational tools like MS-Excel 3.Compiling a comprehensive report on analysed data	Unit 1: Data Analysis Unit 2: An Overview of Survey Research Unit 3: Bivariate Statistics Unit 4: Application	1.Understand the basics of data analysis 2.Understand research question, hypothesis, sampling 3.Understanding correlation & regression analysis 4. Practical application of data analysis using computer software
BA/BSc. 4th Semester	**Public Finance**	1.Develop the ability to explain core micro economic terms, concepts, and theories. 2.Understand the pricing and output decisions under various market structures and analyses the causes and consequences of different market conditions. 3.Provides insights to the market with asymmetric information.	Unit 1: Meaning, Scope and Nature Unit 2: Market Failure and Public Intervention	1.Explain the meaning, scope and nature of public finance 2.Assess the principles and effects of public expenditure, including subsidies, investment etc.

			Unit 3: Taxation Unit 4: Public Expenditure Unit 5: Public Debt and Budgeting Unit-6 Fiscal Policy and Federal Finance	3.Understand fiscal policy objectives and tools 4.Evaluate the structure of fiscal feudalism 5.Develop critical reasoning about the effectiveness of fiscal measures in addressing real world economic challenges. 6.Understand the fiscal policy and federal finance
	Advanced Macroeconomics	This course is designed to provide a comprehensive knowledge in macroeconomics. It provides basic ideas on macroeconomic indicators or variables. It discusses various alternative theories of output and employment determination in a closed economy in short-run, medium-run. In addition, it covers long run dynamic issues like growth and technical progress. It also	Unit 1: Consumption Function Unit 2: Investment Function	1.Explain the different consumption theories 2.Examine the theories of demand and supply of money

		provides different theoretical understanding of issues related to an open economy.	Unit 3: Macroeconomic modelling Unit 4: Inflation, Unemployment and Expectations Unit 5: Economic Growth	3.Assess the various models of economic growth and interpret the role of technology and policy in long-run development 4.Develop critical and analytical skills to apply macroeconomic theories to contemporary issues 5.Understand the different endogenous growth model
	Introductory Quantitative Techniques for Economics	1.Provide a comprehensive introduction to basic econometric concepts and techniques.	Unit-1 Preliminaries of Mathematics	1.Demonstrate an understanding of basic concepts of variables and constants.

		2. Cover statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models.	Unit-2 Differential Calculus Unit-3 Integration of Functions Unit-4 Single Variable Optimization Unit-5 Correlation Analysis Unit-6 Regression Analysis	2.Understanding the rules of differentiation and analyse economic functions like cost, revenue, utility 3.Use techniques of integration to solve problems related to total cost, total revenue, consumer's surplus, producer's surplus in economics 4.Application of local and global optima 5.Understand correlation and its different types 6.Develop problem-solving skills through the application of mathematical and statistical techniques of real-life economic situation
	Advance Microeconomics	The course is designed to provide a sound understanding of the concepts and theories of advanced microeconomics.	Unit 1: Input Markets	1.Explain the functioning of inputs markets, factor pricing and public policy issues

		Since students have been taught perfect competition, this course focuses on the main pillars of Microeconomics such as Imperfect Competition, General Equilibrium, Welfare Economics, and Information Economics. In addition, the principle of factor pricing, input markets, consumer theory, production and cost analysis have been included.	Unit 2: Theory of Production and Cost Unit 3: Consumer Theory and Information Unit 4: Market Structure and Game Theory Economics Unit 5: General Equilibrium & Welfare Economics	2.Explain the different types of Costs related with the production process. 3.Critically evaluate consumer behaviour theories including indifference curve, revealed preferences etc 4.Understand the basics of game theory (zero- sum and non-zero- sum) and strategic decision making 5.Strengthen critical thinking by applying micro economic models to real world policy problems related to markets, efficiency and welfare
BA 5th semester	**Development Economics**	1.The course is designed to introduce the students to the basic ideas of development Economics where the focus will be on	Unit 1: Concepts of Development	1.Understand the concept of development

		exposing the students to the various theories and strategies of development. 2.Relate them to issues like poverty, inequality and the environment 3.The syllabus will help the students to update their knowledge along with the requisite data which will be of immense help in competitive exams & in getting jobs. 3.The course is designed to give students the knowledge of mathematical tools like matrix algebra, multivariable optimization, etc. with statistical tools of probability, theoretical distribution & time series to build up strong quantitative skills. The students are expected to solve economic problems by applying these quantitative tools.	Unit 2: Poverty, Inequality and Development Unit 3: Theories of Economic Growth and Development Unit 4: Strategies of Development Unit 5: Economic Development and Environmental Problems	2.Analyse poverty and inequality 3.Explore theories of development 4.Understand the strategies of development 5.Examine economic development and environmental problems
	Indian Economy	This course will give the students an idea of the Indian economy at the time of independence to the contemporary time. The course is expected to provide students a better picture of the situation	Unit-1 Broad Trends and Compositions	1.Analyse the economic trend in Indias economy

		and appreciate the challenges and opportunities.	Unit-2 Agriculture and the rural sector Unit-3 Manufacturing and Service Sectors Unit-4 Key Initiatives and Reforms Unit-5 India in the Global Economy	2.Trends of agriculture sector 3.Analyse the impact of manufacturing units. 4.Understand the impact of economic policies on different sectors 5.Understand India's position in global economy
	International Economics	This course helps students to comprehend the economic relationships among countries in terms of both trade and monetary issues. It also assists the students in understanding and explaining the composition, direction and consequences of international trade, and the determinants and effects of trade policy. It covers extensive discussions on advances in trade theories over the years, trade policies as well as international	1.Evolution of International Trade Theories 2.Advances in Trade Theories 3.Trade Policy	1.Understand the new trade theories. 2.Critically assess theories versus realities 3.Application of the theories to contemporary issues

		monetary systems. Although the course is based on abstract theoretical models, students will also be exposed to real-world examples and case studies.	4.International Economic Integration 5.International Monetary System	4.Develop a comparative insights of the theories 5.Understand the impact of monetary system
BA 5th Sem	**Intermediate Quantitative Techniques for Economics**	This course is designed to give students the knowledge of mathematical tools like matrix algebra, multivariable optimization, etc. along with statistical tools of probability, theoretical distribution and time series to build up strong quantitative skill. On completion of this course, students are expected to be able to apply these quantitative tools for solving economic problems.	1.Linear Algebra 2.Functions of Real Variables 3.Multi-variable Optimization 4. Elementary Probability Theory 5.Theoretical distributions 6.Introduction to Time Series	1.Understand the basic s of vector spaces 2.Connect the theory with application 3.Understand about differential function, implicit function theorem and application 4.Apply the concepts to price discrimination, consumers equilibrium and producers' equilibrium 5.Understand the measurement of trained using mobbing average and least square methods for filling linear trend curves

				6.Understand the concept of time series along with the related terms.
BA/B.Sc 6th Sem	**Assam Economy**	1.This course will provide students an idea of Assam Economy since Independence to the contemporary time. 2.It will help the students to better appreciate the challenges and opportunities of the economy of assam in the present context. 3.Students will gain an understanding of how econometrics can be used to explain economic relationships, forecast future outcomes & analyse public policy 4.The course is designed to introduce the students to the basic ides of finance & financial analysis. 5.This course focuses on economic causes of environmental problems. Economic principles are applied to environmental questions & their management through various economic institutions, economic incentives & other instruments and policies.	1.The Economy under Colonial Rule (1837 -1947) 2.Growth and Sectoral Composition in the Post-Independence Period 3.Sectoral Status and Prospects 4.State Finances 5.Assam Economy in its Neighborhood	1.Understand the impact of colonial rule on Assam's Economy 2.Compare Assam's development indicators like life expectancy, literacy and forest cover with all India standards 3.Analyse the prospects of non-firm activities, industry, service sector and tourisim in Assam's economy 4.Analyse the trends of state government before and after GST 5.Understand the Act East Policy
	Basics of Econometrics	This course aims to provide students with an introduction to the theory and application of econometrics. The course	Unit-1: Statistical Background	1.Understand the concept of normal distribution, Chi-square, t- distribution and f-test

		will cover basic concepts such as linear regression, estimation techniques, hypothesis testing, and other topics related to the analysis of economic data. Students will gain an understanding of how econometrics can be used to explain economic relationships, forecast future outcomes, and analyse public policy.	Unit-2: Simple Linear Regression Model Unit-3: Multiple Linear Regression Model Unit-4: Violations of Classical Assumptions Unit-5: Specification Analysis Unit-6: Applications	2.Understand the two variable case estimation of the model using ordering Least Square Methods (BLUE), goodness of fit, List of Hypothesis, scaling and units of measurements, confidence interval and forecasting 3.Understand the estimation of parameters 4.Understand the sources, consequences and serial correlation 5.Understand the impact of omission of a relevant variable etc 6.Interpreted and application in econometric models
	Fundamentals of Financial Analysis	The course is designed to introduce the students to the basic ideas of finance and financial analysis. The focus will be on exposing the students to the various financial instruments, markets and strategies along with the tools for analysing the same.	Unit 1: Financial Markets Unit-2: Valuation of Financial Assets Unit-3 Financial Analysis	1.Understand the money market structure function, investment, liquidity along with IPO & FPO 2.Understands the law of one price, valuing stock etc.

			Unit -4 Risk and Return Unit 5 The Derivative Market	3.Understand the concept of financial ratios like liquidity, leverage, turnover, profitability 4.Analyse the risk and return of an asset and a portfolio, measurement of market risk 5.Understand the nature of the derivative market, investments like hedging, speculation and arbitrage.
	Environmental Economics	This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. Economic implications of environmental policy are also addressed along with selected topics on international environmental problems. Selected topics of international environmental problems are also selected.	Unit-1 Introduction Unit-2 Market Failure in allocation of Environmental resources Unit-3 The Design and Implementation of Environmental Policy	1.Helps to develop a comprehensive knowledge and understanding of the issues related to environment and economy 2.Against with the issues relayed to market failure of environmental goods and the instruments which can prevent the damage of market failure of environmental goods 3.Critically analysis as to how an economy should use natural resources in an optimum way

			Unit-4 Sustainable Development Unit-5 International Environmental Problems and Initiatives	4.Implementation of the environmental policy 5.Make aware of global environmental issues