



PSGR
Krishnammal College for Women



College of Excellence, **nirf** 2023 – 4th Rank
Autonomous and Affiliated to Bharathiar University.
Accredited with 'A++' grade by NAAC (4th cycle)
Peelamedu, Coimbatore-641004

Department of Economics

CHOICE BASED CREDIT SYSTEM &
LEARNING OUTCOME BASED EDUCATION

M.A. Applied Economics

Syllabus
2024 – 2026



PROGRAMME LEARNING OUTCOMES: (PLOs)

On completion of the programme students will be able to

PLO1: Demonstrate the knowledge of theories, policies, and empirical findings of Economics.

PLO2: Engage in scientific inquiry, critical thinking, using quantitative and qualitative methods.

PLO3: Access and extract data from multiple sources, analyse and interpret the results using quantitative and qualitative tools.

PLO4: Demonstrate competence in written and oral communication and convincingly present arguments with virtual tools.

PLO5: Apply knowledge of economics for team building and create entrepreneurial initiatives for livelihood and social development.

PROGRAMME SPECIFIC OUTCOMES (PSOs):

PSO1: Apply theories, models, and tools of Economics to analyze socio-economic issues and formulate viable solutions.

PSO2: Undertake scientific enquiry and research to resolve socio-economic problems

PSO3: Demonstrate professional competencies to investigate socio-economic issues, extracting qualitative and quantitative data, critically examining its impacts for resource allocation, distribution, and exchange.

PSO4: Engage in reflective thinking leading to self-learning and lifelong learning.

PSO5: Forge sustainable linkages with communities, thereby giving a boost to civic engagement

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
MAE2401	MICRO ECONOMICS THEORY AND APPLICATION	Theory	73	2	-	4

PREAMBLE

To make the students to understand consumer behavior with the theories of Demand and Production and elaborate various market structure and the theories of distribution.

COURSE OUTCOMES

Upon Completion of this course, the Students will be able to

No.	Course Outcomes	K-Levels
CLO1	Define, explain, and compare the Theory of distribution.	K2
CLO2	Understand the theories of consumer behavior	K3
CLO3	Identify the choice under uncertainty and Economics of information.	K4
CLO4	Examine the alternative theories of firms.	K5
CLO5	Evaluate how price and output is determined in different market situations and the market structures	K6

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	S	S	M
CLO2	S	S	S	M	S
CLO3	S	S	M	S	S
CLO4	S	S	S	S	S
CLO5	S	S	S	S	S

S-Strong; M-Medium; L-Low

SEMESTER I

CORE PAPER I - MICRO ECONOMICS THEORY AND APPLICATION

Unit I: Consumer Choice:

14 Hours

Cardinal and ordinal utility - Indifference curve approach – Slutsky’s Decomposition of price effect into substitution effect and income effect – Consumer surplus - Marshall’s and Hicksian measures – Compensatory Demand Curve- Revealed Preference Theorem- and derivation of Marginal Utility schedule for money income.

Unit II: Economics of Information:

14 Hours

Informational asymmetry – Choice under Uncertainty - N-M Index – Inter-temporal choice - Market for lemons- Adverse selection – Insurance market and adverse selection – Solution to principal agent problem- Hidden action (Moral Hazard) - Signaling and Screening.

Unit III: Market Structure Models

16 Hours

Perfect competition – Price and output determination – Optimum firm-Monopoly – Short run and long run equilibrium - Price discrimination monopoly control, and regulation – Contestable Market-Monopolistic competition–Chamberlin Model- selling costs - Excess capacity – Oligopoly – Duopoly price game-dominant strategy-Nash Equilibrium Non-collusive Models - Oligopoly - Collusive Models - Cartels and mergers -Price leadership - Base point price system Monopsony – Price and output determination – Workable competition.

Unit -IV: Alternative Theories of Firm:

13 Hours

Full Cost Pricing Rule- Limits pricing Theory- Bains Theory- Sylos-Labini Model-Modigliani’s Models- Input-output model -Linear programming applications in decision making- Peak Load Pricing – Administered Pricing- Purchasing Power Parity Price.

Unit -V: Distribution Theories:

16 Hours

Neo-classical approach – Marginal productivity Theory; Product exhaustion theorem; - Modern Theory of distribution – Factor Pricing in imperfect product and factor markets- Determination of Wages –Labour supply and wage determination – Role of trade unions and collective bargaining- Theories of Interest- Theories of Profit.

Text Books:

S.No	Author Name	Title of the Book	Publication	Year
1.	Jhingan M.L.,	Advanced Economic Theory	Vrindha Publications (P) Ltd., New Delhi	2004
2.	Agarwal, H.S.	Micro Economic Theory	Ane’s Books Pvt. Ltd., New Delhi	2010

References:

S.No	Author Name	Title of the Book	Publication	Year
1.	Hal R. Varian,.	Intermediate Micro Economics	East-West Press: New Delhi	2004
2.	Ahuja H.L.	Advanced Economic Theory	Chand & co New Delhi	2017

Pedagogy Lecture by chalk & talk, Power Point Presentation, Assignment, Quiz, Seminar

Course Designers:

1. Dr.K.Renuka, Associate Professor & HOD, Department of Economics
2. Dr.S.PadmaAnnakamu, Assistant Professor, Department of Economics

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
MAE2402	MACRO ECONOMICS THEORY AND POLICIES	Theory	73	2	-	4

PREAMBLE

To understand the theoretical foundation of macroeconomics and the contribution of different schools of thought to the further development of macroeconomics.

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO	Course Outcomes	Knowledge Level
CLO1	Understand nature of various macroeconomic variables such as output, unemployment, inflation, productivity, and the major challenges associated with the measurement of these aggregates.	K2
CLO2	Explain the difference between financial markets and there all economy, and how these linkages influence the impact of economic policies over different time horizons.	K3
CLO3	Examinemacroeconomictheoriesofshort-termfluctuationsandlong-termgrowthinthe economy.	K4
CLO4	Evaluate the consequences of basic macroeconomic policy options under differing economic conditions within a business cycle.	K5
CLO5	Analyse balance of payment-wealth effect in the static model- expenditure changing policies- Effective demand- accelerator principle	K6

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	M	S	S
CLO2	S	S	S	S	S
CLO3	S	S	S	S	M
CLO4	S	S	S	S	S
CLO5	S	L	S	S	M

S-Strong;M-Medium; L-Low

SEMESTER – I
CORE PAPER -MACRO ECONOMICS THEORY AND POLICIES

Unit-1 Income and Output determination **13 hours**

The development of macroeconomics- The government sector and foreign sector- Classical theory of income and employment- The saving investment balance- The labour market equilibrium- Aggregate demand and supply, money and prices in classical model- Keynes' theory of employment- Consumption function, investment demand – Effective demand- Determination of equilibrium income- Theory of multiplier- Derivation of the expenditure multiplier.

Unit-2 Demand side and Supply side Equilibrium **15 hours**

Equilibrium income and the interest rate determination in the product market- Equilibrium income and the interest rate determination in the money market- Derivation of IS and LM curves- Shift in IS and LM curves- Simultaneous equilibrium- Fiscal and monetary policy effects on demand - Interaction of monetary and fiscal policies- Aggregate supply in the short run and long run – Supply side disturbances and reactions- Demand side disturbances and reactions- Determination of equilibrium income, employment, rate of interest and price level.

Unit-3 Consumption, Saving and Investment **16 hours**

Theories of aggregate consumption- Absolute income hypothesis- Relative income hypothesis- Life cycle hypothesis- Permanent income hypothesis- Robert Hall and Random Walk Hypothesis- Non-income factors affecting consumption- The MPS model- The wealth effect in the static model- The present value criterion for investment- The marginal efficiency of investment- Investment demand and output growth- The accelerator principle and stabilization policy- The rental cost of capital and investment- Tobin's q theory of investment.

Unit-4 Monetary and Fiscal policy **15 hours**

The instruments of monetary policy- The mechanism of monetary expansion- money growth targeting and inflation targeting - The effects of fiscal policy changes- Three ranges of LM curve- The effectiveness of monetary and fiscal policy: Monetarists and Fiscalists- Tax rate changes and the budget deficit- Fiscal stimulus and deficit financing- crowding out and crowding in controversy- Quantitative easing policies- macroeconomic policies in advanced and emerging economies.

Unit-5 The External Sector equilibrium **14 hours**

The current account and product market equilibrium- The capital account and balance of payments equilibrium- Balance of payment adjustment and the LM curve- The Classical approach: The automatic adjustment method- Balance of payment adjustment by policy measures: Mundell-Fleming model- The expenditure changing policies- The expenditure switching policy: Devaluation- Monetary approach to Balance of payment adjustments.

Text Books

Sl.No	Author Name	Title of the Book	Publisher	Year of Publication
1.	M.L.Jhingan	Macro Economics	Vrinda Publication	2017
2	William.H. Branson	Macroeconomic Theory and Policy,	All India Traveller Book Seller Publishers, New Delhi	2005

Reference Books

Sl.No	Author Name	Title of the Book	Publisher	Year of Publication
1	D.N.Dwivedi.	Macro economics: Theory and Policy	Tata Mc Graw Hill Education.	2005
2	N.Gregory Mankiw	Macro Economics	Worth Publication	2007

Pedagogy: Lecture by chalk & talk, Power Point Presentation, Case study, Assignment, Quiz, Seminar

Course Designers

1. Dr.G.D.Jasminedeporal, Assistant Professor, Department of Economics..
2. Dr.S.PadmaAnnakamu, Assistant Professor, Department of Economics,

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
MAE2403	STATISTICS FOR DATA ANALYSIS	Theory	88	2		5

PREAMBLE

To provide a strong foundation in statistical concepts and develop skills in data handling, research, model building and forecasting.

COURSE OUTCOMES

Upon Completion of this course, the students will be able to

No	Course Outcomes	K-Levels
CLO1	Summarize the basic Probability rules and understand theoretical distributions.	K2
CLO2	Acquire knowledge on the various sampling methods and testing of Hypothesis	K2, K3
CLO3	Use t test and chi square for data analysis	K4
CLO4	Understand the application of one- and two-way ANOVA	K5
CLO5	Apply various decision-making tools available	K6

Mapping with Programme Specific Outcomes

CLOS	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	M	S	M	M
CLO2	S	M	S	S	S
CLO3	S	S	S	S	S
CLO4	S	S	S	S	S
CLO5	M	S	S	M	S

S-Strong; M-Medium; L-Low

SEMESTER – I

CORE PAPER III- STATISTICS FOR DATA ANALYSIS

Unit I: Probability: 18 Hours

Probability - Addition and Multiplication Theorems - Conditional Probability - Discrete and Continuous - Random Variables - Mathematical Expectations – Bayes Theorem - Theoretical Distributions - Binomial, Poisson and Normal.

Unit II: Sampling and Hypothesis Testing: 18 hours

Sampling Theory - Types of Sampling - Sampling Distributions - Parameter and Statistic - Testing of Hypothesis - Level of Significance - Type I and Type II Errors - Standard Error - Properties of Estimator.

Unit III: Test of Significance Large and Small Sample: 18 Hours

Difference between Large and Small Samples - Test of Significance for Large Samples - Test for Two Means and Standard Deviations - Proportion and Confidence Interval - Small Sample Test – t-test - Paired t- test - Chi-square Test- Test of Goodness of Fit.

Unit IV: Analysis of Variance: 16 Hours

F test: Assumptions in F test - Analysis of Variance: Assumptions – One-Way and Two-Way Classifications.

Unit V: Statistical Decision Theory: 18 Hours

Definitions – Concepts – Maximin - Minimax - Bayes Criterion - Expected Monetary Value - Decision Tree Analysis: Symbols - Steps - Advantages and Limitations.

Text Books

Sl.No	Author Name	Title of the Book	Publisher	Year of Publication
1.	Gupta S.P	Statistical Methods,	Sultan Chand and Sons, New Delhi,	2021
2.	Anderson, Sweeney and Williams	Statistics for Business and Economics	Cengage	2014

References:

Sl.No	Author Name	Title of the Book	Publisher	Year of Publication
1	Aggarwal. Y.P	“Statistics Methods – Concepts Application and Computation”,	Sterling Publishers Private Ltd., New Delhi	2017
2.	Pillai R.S.N. and Bagavathi V	Statistics,	Sultan & Chand Sons, New Delhi	2019

Pedagogy : Chalk and Talk, PPT, Pair and Share, Peer Learning

Course Designers

1. Dr. C. Athena. Assistant Professor, Department of Economics
2. Dr. K. Renuka, Associate Professor, Department of Economics

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
MAE2404	ECONOMICS OF GROWTH AND DEVELOPMENT	Theory	73	2	-	4

PREAMBLE

To enable the students to examine the challenges faced by developing countries; explore the factors that influence their economic growth and the role of policies in promoting sustainable development.

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

No	Course Outcomes	K-Levels
CLO 1	Understand the concepts of poverty and inequality and role of governance and institutions in the context of sustainable development, environmental issues, and globalization	K2
CLO 2	Apply the Growth Models and Theories to analyze economic growth, while also understanding the role of human capital, structural transformation, innovation, and technology in the context of economic growth.	K3
CLO 3	Analyse the merits and demerits of trade development strategies, understanding the dynamics of industrialization and structural transformation	K4
CLO 4	Analyze the distinctions between economic growth and development, and understand the historical perspectives,	K4
CLO 5	Evaluate the theoretical frameworks, and measurement techniques in the field of growth and development economics.	K5

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO 1	S	S	S	S	S
CLO 2	S	M	S	S	S
CLO 3	S	S	S	M	S
CLO 4	S	S	S	S	S
CLO 5	S	M	S	S	S

S-Strong; M-Medium; L-Low

SEMESTER – I

CORE PAPER IV - ECONOMICS OF GROWTH AND DEVELOPMENT

Unit 1: Introduction to Growth and Development Economics: 12 Hours

Definitions and distinctions between economic growth and development-Historical perspectives on development-Theoretical frameworks in growth and development economics-Measuring economic development: income and non-income indicators-Key challenges.

Unit 2: Theories of Economic Growth: 17 Hours

Harrod-Domar Model-Solow Growth Model-Endogenous Growth Theories-Human Capital and Economic Growth-Structural Transformation and Growth-Innovation, Technology, and Growth-Critical minimum efforts thesis- Low level equilibrium trap-Dualism and Dependency theory-Neo-classical Theories of Growth Preferences, Technology, and Demographics-- Lewis Model, Ranis and Fei Model, Big push theory.

Unit 3: Economic Development Strategies: 14 Hours

Industrialization and Structural Transformation-Rural and Agricultural Development- Human Capital Development-Technological progress and innovation policies- Trade and development strategies- Role of Foreign Aid and Foreign Direct Investment- Environmental sustainability in development- Economic reforms and liberalization- Case studies on development policies and their outcomes

Unit 4: Inequality, Poverty, and Development: 15 Hours

Concepts of poverty and inequality-Measurement of poverty and inequality-The poverty-environment nexus-Policies for poverty reduction-Inclusive development and social safety nets-Urbanization and Income Inequality-Education Disparities and Human Capital Development-Gender Inequality and Economic Development-Rural Poverty and Agriculture-Healthcare Disparities and Access to Services-Wealth Inequality and Asset Accumulation-Inequality in Access to Technology and Digital Divide.

Unit 5: Development Policy and Challenges: 15 Hours

Governance and Institutions-Political Economy of Growth Institutions, Political Economy and Growth: Impact of Institutions on Long-run development, Distributional conflict and economic growth in a simple society, Canonical Cobb-Douglas model of distributional conflict, Sustainable development and environmental issues-Globalization and trade-Macroeconomic stability and fiscal policy-Case studies on selected developing countries

Text Books

S.No	Author Name	Title of the Book	Publisher	Year of Publication
1.	Michael P. Todaro and Stephen C. Smith	Economic Development	Pearson	2022
2.	M.L.Jhingan	The Economics of Development and Planning	Vrinda	2017

References

S.No	Author Name	Title of the Book	Publisher	Year of Publication
1	Agarwal.R.C	Economics of Development and Planning	Agarwal	2020
2.	Amartya Sen	Development as Freedom	Anchor Books	1999

Pedagogy: Chalk & Talk, PPT, Peer Learning, Quizzalise

Course Designers

1. DrKavitha N.V, Asst Professor, Department of Economics
2. DrS.PadmaAnnakamu, Asst Professor, Department of Economics

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
MAE2405	AGRICULTURAL ECONOMICS	Theory	73	2		4

PREAMBLE

The course is structured based on three stages of Agricultural Productions, namely Pre-production, Production and Post Production so that the students get an overall understanding of the agricultural issues and policy thereof.

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

No	Course Outcomes	Knowledge Level
CLO1	Sensitize the overall development and engine of growth in agriculture	K2
CLO2	Explain Gain deep knowledge of the causes of regional variations in productivity and production, social and economic inequality, size of land holdings and lack of quality inputs etc.	K3
CLO3	Analyse the production and rural structure of the economy	K4
CLO4	Examine the post production and Pricing and marketing strategies	K5
CLO5	Describe the agriculture sector and emerging issues in an interdependent world	K6

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	M	S	S
CLO2	S	S	S	S	S
CLO3	S	S	S	S	M
CLO4	S	S	S	S	S
CLO5	S	S	S	S	S

S - Strong; M-Medium; L-Low

SEMESTER – I
CORE PAPER V - AGRICULTURAL ECONOMICS

UNIT I Introduction

14 Hours

Agricultural Economics: meaning, nature and scope; History and Development; Contribution; Basic Theories; Hunger and Malnutrition; Food and Nutritional Security.

UNIT II Production and Rural Structures

16 Hours

Issues related to Land; Water; Energy; Seed; Fertilizers; Nexus issues; Credit; Indebtedness; Subsidies; Insurance and Capital formation. Crop Production and Productivity; Labour Relations Employment and Wage; Non-farm Sector; Role of Technologies; Livestock Management; Structural Transformation and Mobility

UNIT III Post-Production, Marketing and Pricing Strategies

14 Hours

Cost of Cultivation and CACP; Pricing; Income; Issues in Marketing and its Channels; Value Addition and Processing; Research: Education and Extension.

UNIT IV Agriculture in an Interdependent World

13 Hours

WTO, Negotiations and Agreements; Trade and International Relations; Problems of Agricultural Subsidies; Patents; Agricultural Exports: Quantitative Restrictions (QRs) and Non-Tariff Barriers

UNIT V Emerging Issues in Agriculture

16 Hours

Sustainable Agriculture; Climate Change and issues; Organic, Zero Budget, Climate Smart and Precision Farming; Law and Policies, Best Practices in Agriculture from around the World.

Text Books

Sl.No.	Author Name	Title of the Book	Publisher	Year of Publication
1.	Ray,D.,	Development Economics	Oxford Publisher	1999
2	von Braun, J, M.S. Swaminathan, and M W. Rosegrant,	Agriculture, Food Security, Nutrition, and the Millennium Development Goals	Essay, IFPRI, Washington. DC	2005

Reference Books

Sl.No	Author Name	Title of the Book	Publisher	Year of Publication
1	Sadhu.A.M. & Singh	Fundamentals of Agricultural Economics	Himalyan Publishing House	2014
2	Vaidyanathan,A	Performance of Indian Agriculture since Independence” in Kaushik Basu (ed.), Agrarian Questions	Oxford University Press.	1994

Pedagogy

Lecture by chalk & talk, Power Point Presentation, Assignment, Quiz, Seminar

Course Designers:

1. Dr.S.PadmaAnnakamu, Assistant Professor, Department of Economics
2. Dr.Jasminedeporal, Assistant Professor, Department of Economics

COURSE NUMBER	COURSENAME	Category	L	T	P	Credit
MAE24P1	ADVANCED EXCEL FOR DATA ANALYSIS	Practical	58	2	-	2

PREAMBLE

The Course aim locate economics data and provide meaningful economic analysis of this data using Excel to produce charts, scatter plots, descriptive statistics and simple linear regression.

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

NO	Course Outcomes	Knowledge Level
CLO1	Understand Excel effectively and efficiently use Microsoft Excel to convert raw data into useful information for Business and Economic decision-making. Cell References, Number Formats Facade, Effective and efficient spread sheet design including Excel's Golden Rule.	K2
CLO2	Demonstrate the ability to use data analysis packages of advanced excel pertaining to Statistics and econometric analysis to give robust and significant answers to economic and societal problems.	K3
CLO3	Analyse the Cross Tabulation-Hypothesis Testing- One sample z test-Coefficient of variation, Standard Deviation and coefficient of variation- Skewness, and Kurtosis	K4
CLO4	Examine paired t-test- Mann-Whitney U test- Kruskal Wallis test, Chi-Square- F test Data Analysis features, such as PivotTables, Sorting, Filtering and Importing Data, Vlookup. Price indices- Quantity Indices	K5
CLO5	Describe spearman's Rank correlation- Partial Correlation- Simple and Multiple Regression, ANOVA, MANOVA, MANCOVA, Factor Analysis	K6

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	M	S	S
CLO2	S	S	S	S	S
CLO3	S	S	S	S	M
CLO4	S	S	S	S	S
CLO5	S	M	S	M	S

S-Strong;M-Medium;L-Low

PRACTICAL – I ADVANCED EXCEL FOR DATA ANALYSIS

Unit-1 Introduction to Excel

8 hours

Excel basic: Introduction about Microsoft Excel at the basic level: overview, tools, creates a spreadsheet, format, spreadsheet, calculations, create charts and printing, Formulas & Functions, Cell References, Number Format as Facade, Effective and efficient spreadsheet design including Excel's Golden Rule, Data Analysis features, such as Pivot Tables, Sorting, Filtering and Importing Data, V lookup

Unit-2 Univariate Analysis

10 hours

Tabulation and diagrammatic representation of data-Line, Bar, Pie Diagram – Frequency Distribution and its diagrammatic presentation- Construction of frequency distribution – Histogram, O give and Frequency Polygon - Measures of Central Tendency-Mean, Median, Mode –Measures of dispersion- Range, Mean Deviation, Coefficient of variation, Standard Deviation and coefficient of variation - Skewness and Kurtosis

Unit-3 Bivariate and Multivariate Analysis

15 hours

Scatter Plots, Cross Tabulation-Hypothesis Testing- One sample z test- One sample t test-Paired t-test-Mann-Whitney U test-Kruskal Wallis test, Chi-Square-F test

Unit-4 Analysis of Correlation

16 hours

Correlation Coefficient - Spearman's Rank correlation – Partial Correlation-Simple and Multiple Regression, Use of confidence intervals and hypothesis tests for regression coefficients, Dummy, and indicator variables, ANOVA, MANOVA, MANCOVA, Factor Analysis

Unit-5 Indices

9 hours

Price indices – Quantity Indices – Deflating time series by price indices –Shifting bases and chaining indices

Text Books

Sl.No	Author Name	Title of the Book	Publisher	Year of Publication
1.	Anderson,S weeney, Williams	Essentials of Modern Business Statistics with Microsoft Office Excel	Cengage Learning	2017
2	Rinkoo Jainn	MS Excel: A Book for learners and Trainers	Prentice-Hall,	2021

Reference Books

Sl.No	Author Name	Title of the Book	Publisher	Year of Publication
1	Sima Alex	Excel Formulas and Functions: Cool Tips and Tricks With Formulas in Excel	Caprioru	2019
2	LeonardoL.Wright	Excel2023:A Comprehensive Guide to become an Expert on Excel 2023 With All-in-One Approach	Eclectic Editions Limited	2023

Pedagogy: Lecture by chalk & talk, Power Point Presentation, Case study, Assignment, Quiz, Seminar

Course Designers

1. Dr.S.PadmaAnnakamu, Assistant Professor, Department of Economics
2. Dr.G.D.Jasminedeporal, Assistant Professor, Department of Economics