



DEPARTMENT OF ECONOMICS AND RURAL DEVELOPMENT



M.A., ECONOMICS

[Choice Based Credit System (CBCS)] [For the candidates admitted from the academic year 2019-2020]

Department of Economics and Rural Development ALAGAPPA UNIVERSITY, KARAIKUDI – 630 003

Regulations for M.A., Economics Regular Programme

Programme general objectives: The subject of Economics is widely used for various development policy decisions throughout the world. Studying the subject of economics provides an in-depth understanding on theoretical and empirical issues of the various subjects of economics which ultimately help the students to enter into policy making body, research institutes, academic institutions, corporate houses, consultancy organisations, etc. This Post Graduate Course in Economics is expected to help the students in understanding the utility of the subject in different areas.

Programme specific objectives: The major objective of the designed programme is to train and provide necessary skills and understanding on various facets of economics. The specific objectives of this programme are:

- 1. To provide in-depth understanding on the basic concepts and theories in various branches of economics;
- 2. To provide details on the sectoral development of economy concerning India;
- 3. To provide exposure to the national and international economic problems;
- 4. To familiarize the important economic problems and concepts to the students;
- 5. To facilitate the students to acquire skills in systematic evaluation and follow-up of economic projects.
- 6. To prepare the students for competing for Indian Economic Services (IES), Economists position at RBI, NABARD, Planning Commission, Consultancy Organisations and other leading academic and research institutions.

Programme outcome:

On successful completion of the programme

- 1. The students will be able to understand the functions of key economic instruments.
- 2. The students will be able to use macro and micro economic models to explain the changes in real world economic analysis.
- 3. The students will be able to apply econometric and statistical tools in economic analysis.
- 4. The students will be able to acquire significant knowledge to face various competitive examinations.

Duration of the course: This is a two-year full-time programme offered in four semesters under CBCS.

Eligibility: Applicants who have passed B.A. in Economics/ Business Economics/ Cooperation/B.B.M./ B.B.E./ B.B.A./ B. Com./ B.Sc. Statistics / B.Sc., Agricultural Economics and B.Sc. Mathematics in the specified programmes are eligible for admission to the M.A., Economics Programme. Both male and female students not exceeding 20 in number will be admitted to this programme. Those who are waiting for the results of final semester examination can also apply for this programme. The students will be selected based on their marks scored in the UG programme.

Conditions for Qualifying the Programme:

Theory Papers: A candidate who does not pass the examination relating to any theory papers in each of the semesters shall be permitted to appear in such failed paper or papers in the ensuing supplementary examination as held by the University.

Project / Thesis Report: Project report shall be evaluated internally by the faculty of the department who has guided the student and by an external examiner as well. The internal (25 marks) and external examiner (75 marks) shall evaluate the research project/thesis which will have a total of 100 marks. Each candidate shall be required to appear for viva-voce examination in defending the project. A candidate who fails in the Project/Thesis shall not be eligible for M.A Economics Degree till he/she repeats the Project/Thesis under supervision and secures pass marks.

Passing Minimum: A candidate shall be declared to have passed the examination, if he obtains not less than 50% of the marks in each paper, including project/thesis. Candidates who do not obtain the required minimum marks for a pass in any papers and project/thesis shall be required to reappear and pass the same at the subsequent appearance.

Classification of Successful Candidates: Candidates who secure not less than 60% of the aggregate marks in the whole examination shall be declared to have passed the examination in the first class. Candidates who secure not less than 50% of the aggregate marks in the whole examination but below 60% shall be declared to have passed the examination in the second class. Candidates who obtain 75% of the marks in the aggregate shall be deemed to have passed the examination in first class with distinction, provided they pass all the examinations prescribed for the course at the first appearance.

Ranking: Candidates who pass all the examinations prescribed for the course in the first appearance only are eligible for ranking.

General: In all other matters that are not specified here, the regulations of the University will be followed.

M.A., Economics – Regular Programme Structure and Scheme of Framination from the Academic Year 2019-20 On

| 5.N | Code | Name of the course | Credit | Hours/Week | | 8 | |
|-----|---------|---|----------------------|------------|----|----|-------|
| | | SEMESTER I | | | IA | EA | Total |
| 1 | 455 101 | Micro Economics – I | 5 | 5 | 25 | 75 | 100 |
| 2 | 455 102 | Macro Economics – I | 5 | 5 | 25 | 75 | 100 |
| 3 | 455 103 | Statistical Analysis | 4 | 4 | 25 | 75 | 100 |
| 4 | 455 104 | Dynamics of Rural Development | 4 | 4 | 25 | 75 | 100 |
| 5 | 455 501 | Computer Application for Data Analysis (E) | 4 | 4 | 25 | 75 | 100 |
| | | Library/Seminar/Spoken English | - | 8 | - | - | - |
| | | Total | 22 | 30 | - | - | 500 |
| | | SEMESTER II | | | | | |
| 6 | 455 201 | Micro Economics – II | 5 | 5 | 25 | 75 | 100 |
| 7 | 455 202 | Macro Economics – II | 5 | 5 | 25 | 75 | 100 |
| 8 | 455 203 | Issues in Indian Economic Development | 4 | 4 | 25 | 75 | 100 |
| 9 | 455 204 | Indian Financial Institutions and Markets | 4 | 4 | 25 | 75 | 100 |
| 10 | 455 502 | Econometrics (E) | 4 | 4 | 25 | 75 | 100 |
| 11 | 455 701 | Non Major Elective - I | 2 | 3 | 25 | 75 | 100 |
| | SLC-I* | MOOCs | Extra Credit | | | | |
| | | Library/Yoga/Spoken English/ Career Guidance/ | - | 5 | - | - | - |
| | | Seminar | | | | | |
| | | Total | 24 | 30 | | | 600 |
| | | SEMESTER III | | | | | |
| 12 | 455 301 | Public Finance – I | 4 | 4 | 25 | 75 | 100 |
| 13 | 455 302 | Development Economics | 4 | 4 | 25 | 75 | 100 |
| 14 | 455 303 | Research Methodology | 4 | 4 | 25 | 75 | 100 |
| 15 | 455 304 | International Economics - I | 4 | 4 | 25 | 75 | 100 |
| 16 | 455 503 | Mathematics for Economic Analysis (E) | 4 | 4 | 25 | 75 | 100 |
| 17 | 455 702 | Non Major Elective - II | 2 | 3 | 25 | 75 | 100 |
| | SLC-II* | MOOCs | Extra Credit | | | | |
| | | Library/Yoga/Competitive Examination | - | 7 | - | - | - |
| | | Coaching/ Career Guidance/Seminar | | | | | |
| | | Total | 22 | 30 | | | 600 |
| | | SEMESTER IV | | | | | |
| 18 | 455 401 | Monetary Economics | 4 | 4 | 25 | 75 | 100 |
| 19 | 455 402 | Agricultural Economics | 4 | 4 | 25 | 75 | 100 |
| 20 | 455 403 | Public Finance – II | 4 | 4 | 25 | 75 | 100 |
| 21 | 455 404 | International Economics - II | 4 | 4 | 25 | 75 | 100 |
| 22 | 455 999 | Project Report and Viva-Voce | 6 | 12 | 25 | 75 | 100 |
| | | Library/Seminar/Competitive Examination | - | 2 | - | - | - |
| | | Coaching | | | | | |
| | | Total | 22 | 30 | - | - | 500 |
| | | Grand Total | 90 + Extra Credit | 120 | - | - | 2200 |

ſ₽,

List of Elective Courses

| S N | Coda | Name of the course | Credit | Hours/ | Marks | | |
|------|---------|--|--------|--------|-------|----|-------|
| 0.11 | Coue | | | Week | IA | EA | Total |
| 1 | 455 501 | Computer Application for Data Analysis | 4 | 4 | 25 | 75 | 100 |
| 2 | 455 502 | Econometrics | 4 | 4 | 25 | 75 | 100 |
| 3 | 455 503 | Mathematics for Economic Analysis | 4 | 4 | 25 | 75 | 100 |
| 4 | 455 504 | Energy Economics | 4 | 4 | 25 | 75 | 100 |
| 5 | 455 505 | Environmental Economics | 4 | 4 | 25 | 75 | 100 |
| 6 | 455 506 | Project Planning and Evaluation | 4 | 4 | 25 | 75 | 100 |
| 7 | 455 507 | Industrial Economics | 4 | 4 | 25 | 75 | 100 |

| | Semester – I | | | | | |
|---|---|--|--|--|--|--|
| Course code: 455 101 | Micro Economics – I | Credits: 5 | Hours: 5 | | | |
| Objectives | This course aims to provide an understanding households and business firms make choices and de | of the way ecisions. | individual | | | |
| Unit-I | Theory of Consumer Behaviour: Utility Theory: Total Utility and Marginal Utility- Ordinal Approach: Indifference Curve (Income and Substitution Effects, Slutsky Theory and Compensated Demand Curve) and their Application; Revealed Preference, Theory of Demand (Hicks)- Characteristics of Goods Approach (Lancaster)- Consumer choice involving risk: N-M Hypothesis: Friedman-Savage-Markowitz Hypothesis | | | | | |
| Unit-II | Theory of Production and Cost: Theory of Production Function: Marginal Product, Average Product and Total Product- Elasticity of Substitution: Euler's Theorem– Technical Progress and Cobb-Douglas, CES, VES, Trans-log Production Function and Frontier Production Function: Empirical Work – Traditional and Modern Theories of Cost – Derivation of Cost Functions: Total Cost, Average Cost, Marginal Cost, Average Fixed Cost, Average Variable Cost | | | | | |
| Unit-III | Market Theories: Price and Output Relations: Perfect Competition, Monopoly, Monopolistic Competition, Monopsony, Bilateral Monopoly- Product Differentiation- Selling Cost – Excess Capacity under Monopolistic Competition – Imperfect Competition– Oligopoly: Non-collusive (Cournot, Bernard, Edgeworth, Chamberlin, Kinked Demand Curve and Stackelberg's Solution) and Collusive (Cartels and Mergers, Price Leadership and Demantic Paint Price System) Contactable Market – Clobal Competition | | | | | |
| Unit-IV | Pricing Practices: Historical Pricing- Premium Prici Economy Pricing– Skimming Price– Psychological P. Captive Product Pricing– Optional Product Pri Promotional Pricing Strategy– Geographical Pricing– Pricing. | ng– Penetratio ricing– Neutra cing– Bundl Line Pricing– | on Pricing– Il Strategy– ing Price– Peak Load | | | |
| Unit-V | Alternative Theories of Firm: Critical Evaluation Baumol's Sales Maximization and Williamson's Discretion – Marris Model of Managerial Enterprise- Bains Limit Pricing Theory; Sylos-Labini's Model– I Firm: Cyert and March. | n of Margina Model of - Full Cost Pr Behavioural M | l Analysis: Managerial icing Rule- lodel of the | | | |
| Reference and Textbooks Gravelle, H. & Rees, R. (2004). <i>Microeconomics</i>. (3rded.). Prentice Hall, Pearson Education. Bv Canada. Jehle, G.A. & Reny, P.J. (2001). <i>Advanced Microeconomic Theory</i>. Pearson Education. India. | | | | | | |
| Kreps, D.K. (1996). A Course in Microeconomic Theory. Princeton University Press. New Jersey, NJ: USA. MasColell, A. Whinston, M.D. & Green, J.R. (1995). Microeconomic Theory. Oxford University Press Mumbai | | | | | | |
| Pankaj, G. & Gupta, A. Delhi. | Press. Mumbal. Pankaj, G. & Gupta, A. (2002). <i>Microeconomics: Theory and Applications – II.</i> Sarup & Sons. New Delhi. | | | | | |

Samuelson, P.A. & William D.N. (2009). *Microeconomics*. (19thed.). Tata McGraw Hill International. New Delhi.

| Varian, | H.R. (2010). | Microeconomic Analys | is. W.W. Nortonand | Company. New | York, NY. |
|---------|--------------|----------------------|--------------------|--------------|-----------|
| | · · · · | | | 1 2 | / |

| Outcomes | > Students will be able to critically analyse and explain consumers', firms', and |
|----------|---|
| | markets' behaviour using tools and diagrams; assess the microeconomic theories |
| | and models in terms of their policy implications, advantages and limitations. |

| | Semester – I | | | |
|--|--|--|--|--|
| Course code: 4 | 55 102 Macro Economics – I Credits: 5 Hours: 5 | | | |
| Objectives | The course covers key models that help to analyze and explain macro- economic phenomena. It investigates economic growth, business cycles, consumption, savings investment, unemployment, fiscal and monetary policy. | | | |
| Unit-I | Basic Concepts: Need for a Separate Study of Macro Economics- National Income – Circular Flow of Income and Expenditure of Two Sector, Three Sector and Four Sector Models– National Income and National Product– Methods: Income, Expenditure and Product- Concepts of National Income – Measurement of National Income: Current Price and Constant Price– Difficulties in the Measurement of National Income– National Income and Measure of Welfare- Difficulties; Distribution Effects. | | | |
| Unit-II | Macro Economic Theories: The Classical Theory of Employment– Say's Law of Markets- Aggregate Demand and Supply (Two, Three and Four Sector Model) – The Consumption Function- Keynesian Psychological Law of Consumption: APC, MPC, APS, MPS Relations– The Marginal Efficiency of Investment (MEI)– Relation Between the MEC (Central Stock) and the MEI (Investment)– Factors other than the Interest Rate Affecting Inducement to Invest – Income Determination in Closed and Open Economy– The Keynesian Theory of Income, Output and Employment. | | | |
| Unit-III | Macro Economic Theories: Savings and Investment Equality (The Classical and Keynes criticism of the view)– The Accelerator Theory of Investment– Lags in Investment: Koyek's Approach– Financial Theories of Investment: Duesenberry's Financial Theory of Investment– Jorgenson's Neo-Classical Theory of Investment– Multipliers: Investment Multiplier, Period Multiplier, Employment Multiplier, Super Multiplier. | | | |
| Unit-IV | Post-Keynesian Developments in Macro Economics: IS-LM Curves ModelReal Sector Equilibrium: The Derivation of the IS Curve, Shift in the ISCurve; The LM Curve, Shift in the LM Curve; Intersection of the IS and LMCurves, Effectiveness of IS and LM- Phillips Curve: Long-run Phillips Curve-Rational Expectations Theory- Numerical Problems of IS curve- Two andThree Sector Model- Derivative of LM curve- Determination of Income andInterest under IS Curve. | | | |
| Unit-V | Supply Side Economics: Supply Side Economics: Laffer Curve- Taxation and Labour Supply– Reagan Economics and Supply Side Economics– Reducing the Burden of Government Regulations, Increasing Growth Rate, Effect on the Distribution of Income. | | | |
| Reference and Textbooks Blanchard, O. & Johnson, D.R. (2012). <i>Macroeconomics</i>. Prentice Hall. Toronto. Carlin, W. & David, S. (2007). <i>Macroeconomics: Imperfections, Institutions, and Policies</i>. Oxfor University Press. New Delhi. | | | | |
| David Koner. (2 David, R. (2011 Froyen, R.T. (20 New Jersey |). Advanced Macroeconomics. McGraw-Hill Higher Education. New Denil. (). Advanced Macroeconomics. McGraw Hill Higher Education. London. ()08). Macroeconomics: Theory and Policies. (9 th ed.). Prentice Hall. Pearson Education. ()08). Representation of the seconomics of the secon | | | |
| Controversies. P | algrave Macmillan. London. | | | |
| Outcomes | Students will be able to describe full employment and price-level stability; analyse unemployment and inflation, explain the components of aggregate economic activity, fluctuations and effects for the national economy. | | | |

| Semester – I | | | | | |
|-------------------------|--|------------------|--------------|--|--|
| Course code: 455 103 | Statistical Analysis | Credits: 4 | Hours: 4 | | |
| Objectives | To familiarize the application of statist economic analysis among the students. | ical methods | in socio- | | |
| Unit-I | Measures of Central Tendency and Dispersion: Mean, Median and | | | | |
| | Mode- Empirical Relationship between Mean, Median and Mode; | | | | |
| | Standard Deviation and Coefficient of Variation, Skewness | | | | |
| I Init-II | Correlation and Regression Analysis: Corr | elation Analys | sis: Scatter | | |
| | Diagram, Karl Pearson's Coefficient of Corre | lation: Rank C | orrelation. | | |
| | Spearman's Coefficient of Rank Correl | lation; Applie | cation of | | |
| | Correlation in Empirical Works- Regression | on: Difference | e between | | |
| | Correlation and Regression, Fitting Regression | ion Lines (bet | ween two | | |
| | variables), Regression Coefficients; Applic | ation of Regi | ression in | | |
| | Empirical works. | | | | |
| 01111-111 | Addition and Multiplication Theorems– Defi | inition and Pro- | poperties of | | |
| | Normal, Binomial, Poisson, Chi- square, 't' and 'F' tests (Basic | | | | |
| | Concepts and Simple Problems) – ANOVA, MANOVA. | | | | |
| Unit-IV | Estimation: Point Estimation, Four Properties of Point Estimator, | | | | |
| | Interval Estimation (Concept only)– Tests o | of Significance | : Test for | | |
| | Mean Difference (Small and Large Samples) – Proportion and Difference between Proportions (for Large Sample Veriences | | | | |
| | Numerical Problems only) – Chi-square Tests and its Applications | | | | |
| | Goodness of Fit. | | | | |
| Unit-V | Computer Applications: Data Entry and H | Processing using | ng Excel- | | |
| | Downloading Data from Internet and its Conv | version into Ap | pplication- | | |
| | Computing Mean, Median, Mode, Standard | Deviation and | CV using | | |
| | Excel – Creating and Modifying Graphs | s and other | Charts – | | |
| Deference and Toytha | eks | | 3135. | | |
| Nagar, A.L. & Das R K | (2006) <i>Basic Statistics</i> (2 nd ed) Oxford Unive | ersity Press Na | ew Delhi | | |
| Agarwal, Y.P. (2012). S | Agarwal, Y.P. (2012). Statistical Methods: Concepts, Applications and Computations. Sterling | | | | |
| Publishers. New Delhi. | | | | | |

- Grewal, P.S. (1990). Methods of Statistical Analysis. Sterling Publishers. New Delhi.
- Gujarathi, D. (2017). Basic Econometrics. Tata McGraw Hill. New Delhi.
- Gupta, S.P. (2014). Statistical Methods. S. Chand & Company. New Delhi.
- Gupta, C.B. & Gupta, V. (2009). An Introduction to Statistical Methods. Vikas Publishers. New Delhi.
- Gupta, S.C. (2014). Fundamentals of Statistics. Himalaya Publishing House. Mumbai.
- Miller, I. & Miller, M. (1999). *Mathematical Statistics* (6th ed.). Prentice Hall. New Jersey. NJ.
- Mood, A.M. Graybill, R.A. & Boes, R.C. (1974). Introduction to the Theory of Statistics. McGraw-Hill. New Delhi.

Spiegel, M.R. & Constable, R.L. (1992). *Theory and Problems of Statistics*. McGraw-Hil. Singapore.

| Outcomes | \succ Students will be able to understand and apply descriptive and inferential |
|----------|---|
| | statistical techniques using excel and SPSS to support economic decision |
| | making. |

| Semester – I | | | | | | |
|-------------------------|--|---|---------------------------|--|--|--|
| Course code: 455 104 | Dynamics of Rural Development | Credits: 4 | Hours: 4 | | | |
| Objectives | To provide an in-depth understanding o of rural economy with a special focus or | n the developme n India. | ent scenarios | | | |
| Unit-I | Structure, Growth and Developm | ent: Genesis | of Rural | | | |
| | Importance and Indicators of Rural Development_ Rural Development | | | | | |
| | Administrative Structure– Infrastructure– Education, Health, | | | | | |
| | Electricity, Roads, Markets, Urban Connec | ctivity. | | | | |
| Unit-II | Theories and Dimension of Poverty: T | Theories and Dimension of Poverty: Theories Applicable to Rural | | | | |
| | Surplus Labour Dualistic theories Trid | ckledown theory | v Myrdal's | | | |
| | Backwash Effect Theory– Poverty: (| Concept and I | Dimensions; | | | |
| | Measurement of Poverty- Causes and | Consequences of | of Poverty- | | | |
| | Trends and Determinants. | | <u> </u> | | | |
| Unit-III | Programme (IRDP). TRYSEM and DW | CRA- Swarnaia | vanti Gram | | | |
| | Swarozgar Yojana (SGSY)- Sampoorna | Grameen Roz | gar Yojana | | | |
| | (SGRY)– Rural Housing Schemes (IA) | Y & PMGSY) | – Mahatma | | | |
| | (MGNREGP)- National Social Assista | t Guarantee | Programme e: NOAPS | | | |
| | NMBS, NFBS. | | | | | |
| Unit-IV | Voluntary Organization as Change Age | ent in Rural De | velopment: | | | |
| | VOs vs. NGOs – Typology – Strategie | s of developme | ent oriented | | | |
| | NGOs – VOs and Five Tear Flans– G NGOs in Rural Development- Problems fa | iced by NGOs. | JS- KOIE OI | | | |
| Unit-V | Participatory Development: Significand | ce, Concept and | d Meaning- | | | |
| | Approaches to People's Participation– Su | upply Leading V | Vs. Demand | | | |
| | Driven Approach, Types of People's Promote People's Participation– Social Ca | Participation; S | trategies to Types and | | | |
| | Role in Rural Development. | | i, i ypes and | | | |
| Reference and Textbo | oks | | | | | |
| Government of India. (| Various issues). Five Year Plans. Planning | Commission of | India. New | | | |
| Jhingan, M.L. (2011). | Economics of Development and Planning | . Vrinda Publica | ations. New | | | |
| Delhi. | , , , , , , , , , , , , , , , , , , , | | | | | |
| Lalitha, N. (2004). Ru | ural Development: Trends and Issues. (V | ol. I and II.). | Dominant | | | |
| Maheswari, S.R. (199) | 5). Rural Development in India - A Pub | lic Policy App | roach. Sage | | | |
| Publications. New 1 | Delhi. | | 2 | | | |
| Narayanasamy, N. (2 | 2009). Participatory Rural Appraisal: | Principles, Me | ethods and | | | |
| Reddy, V.K. (2012) Ru | rublications. New Delm. <i>ural Development in India</i> Himalaya Publish | ning House, New | Delhi | | | |
| Singh, H. (1995). Admin | nistration of Rural Development in India. St | erling. New Dell | ni. | | | |
| Outcomes > On s | uccessful completion of the course, the st | udents will be a | able to gain | | | |
| insig | ht into the socio-economic structure of rur | al India and und | derstand the | | | |
| gove | rnmental organisation in India. | ogrammes and | | | | |

| | Semester - I | - | | | |
|---|--|---|--|--|--|
| Course code: 45 | 5 501 Computer Application for Data Analysis (E) | Credits: 4 | Hours: 4 | | |
| Objectives | To provide an in-depth knowledge on the economic analysis. | use of co | mputer in | | |
| Unit-I | Unit-IBasic Knowledge of Computer: Introduction to Operating SysteTypes and Versions of Operating System- Basic KnowledgeInternet: Creating E-mail Address, Sending and Getting E-mailFeatures of Inbox, Attaching Images or Documents to E-mail. | | | | |
| Unit-II | MS-Office: MS-Word: Creating, Opening and and Formatting Text: Spell, Grammar Check a Auto Correct- Creation of Tables and Volum Mail Merger and Track Change Mode- MS-F Slides, Editing Slides, Insert Table, Picture a Show. | Saving Files and Thesaur nes- Page A Power Point and Animat | s– Editing us Check- lignment, : Creating ion; Slide | | |
| Unit-III | Unit-IIIData Download: Data Search from Paid and Non-Paid Sources I NSSO, CSO, CACP, MOA, MOSPI, etc- Presentation of Da Editing, Coding and Tabulating Data; Diagrammatic and Grap Representation of Data- Processing Data- Online Journals- Source of Online Research Articles from Various Publishers. | | | | |
| Unit-IV | MS-Excel for Analysis: Creating, Opening an in MS-Excel Data Analysis: Mean, Median Quartiles, Standard Deviation, Variance, Maximum, Skewness, Kurtosis and Grow Diagram- Computing NPV, BCR and IRR. | d Working , Mode, P Range I th Model– | with Data ercentiles, Minimum, Tables– | | |
| Unit-V | Data Analysis using SPSS: Basics of Data An SPSS – Importing Data from Non-SPSS File I from Multiple files, Transforming Variables and Computing with SPSS- Preparation of Grap Analysis: Descriptive Statistics, Growth Ra Regression Models. | nalysis– Dat Format, Mer d Recoding hs with SF ates, Correl | a Entry in ging Data Variables- SS- Data ation and | | |
| Reference and T | extbooks | | | | |
| Ajai, S.G. & Gau Analysis Usin Croxton, F.E. Co India, New D | r, S.S. (2009). Statistical Methods for Practice and Rese ng SPSS. Sage Publisher. New Delhi. wden, D.J. & Klein, S. (1988). Applied General Statis elhi. | earch A Guio | de to Data ce Hall of | | |
| Cunningham, J.H Dhanasekaran Publications. Gupta, S.P. (2018 | 8. & Aldrich, J.O. (2012). Using SPSS. Sage Publ. h, K. (2013). Computer Application in New Delhi.). Statistical Methods. S. Chand & Sons Publishers. New Delhi. | ications. No Economics. w Delhi. | ew Delhi. Vrinda | | |
| Rajaraman, V. & Neeharika, A. (2014). Fundamentals of Computers. Prentice Hall of New Delhi | | | l of India. | | |
| Outcomes | New Delhi. Dutcomes A statistic optimization Dutcomes Dutcomes | | | | |

| | Semester - II | | | | | | |
|--|--|--|--|--|--|--|--|
| Course code: | 455 201 Micro Economics – II Credits: 5 Hours: 5 | | | | | | |
| Objectives | \succ To provide theoretical foundation of the micro-economic theory especially | | | | | | |
| Objectives | about the basic concepts such as scarcity, choice, efficiency, equity, | | | | | | |
| | equilibrium and uncertainty. | | | | | | |
| | Factor Pricing: Neo-classical Approach: Marginal Productivity Theory, | | | | | | |
| Unit-I | Product Exhaustion Theorem- Elasticity of Technical Substitution, Progress | | | | | | |
| and Factor Shares- Theories of Distribution: Ricardo, Marx, Kalecki, | | | | | | | |
| | and Sraffa. | | | | | | |
| | Equilibrium Analysis: General and Partial Equilibrium- Walrasian Excess | | | | | | |
| Unit-II | Demand and Input-Output Approaches- Existence, Stability and Uniqueness- | | | | | | |
| | Two Sector Model- Stopler-Samuelson Theory- Relationship between Output | | | | | | |
| | Mix and Real Factor Prices- Rybezynski Theory. | | | | | | |
| | Theory of Uncertainty: Individual Behaviour towards Risk and Uncertainty: | | | | | | |
| Unit-III | Risk Preference and Aversion– Sensitivity Analysis: Gambling and Insurance- | | | | | | |
| | Economics of Insurance: Cost and Risk, Risk Pooling, Spreading, Moral | | | | | | |
| | Hazard and Portfolio Selection- Optimal Consumption under Uncertainty- | | | | | | |
| | Game Theory: Non-Cooperative Games; Prisoner's Dilemma. | | | | | | |
| T T • 4 T T 7 | Economics of Search: Models- Efficient Market Hypothesis– Stochastic | | | | | | |
| Unit-IV | Model– Model of Inventory Demand– Market with Incomplete Information: | | | | | | |
| | Search and Transaction Costs, Economics of Information, Asymmetric | | | | | | |
| | Information, Moral Hazards and Adverse Selection. | | | | | | |
| | Conditions Value Indements Social Welford Function Communication | | | | | | |
| Unit-V | Conditions- value Judgments - Social Welfare Function- Compensation | | | | | | |
| | Theory of Second Post Arrow's Impossibility Theorem Equity and | | | | | | |
| | Efficiency Trade Off | | | | | | |
| Reference and | Textbooks | | | | | | |
| Gibbons R (1 | (992) Game Theory for Applied Economists Princeton University Press New | | | | | | |
| Iersev NI | (5)2). Gume Theory for Applica Debiomasis. Thirdeon Oniversity Tress. New | | | | | | |
| Bryant W.D. | A (2010) General Equilibrium: Theory and Evidence World Scientific | | | | | | |
| Publishing | Singapore. | | | | | | |
| Koutsviannis. | A. (2008). Modern Micro Economics. MacMillan. London. | | | | | | |
| Mandal, R.K. (| 2008). <i>Microeconomic Theory</i> . Atlantic Publishers. New Delhi. | | | | | | |
| Layard, P.R.G. | & Walters, A.W. (2001). <i>Microeconomic Theory</i> . McGraw Hill. London. | | | | | | |
| Samuelson, P. | A. & William, D.N. (2009). <i>Microeconomics</i> (19 th ed.). Tata McGraw Hill. New | | | | | | |
| Delhi. | | | | | | | |
| Stigler, G. (199 | 96). Theory of Price. Prentice Hall of India. New Delhi. | | | | | | |
| Varian, H.R. (2 | 2010). <i>Microeconomic Analysis</i> . W.W. Norton and Company. New York, NY. | | | | | | |
| Outcomes | > The students will be able to understand micro economic theories on factor | | | | | | |
| Outcomes | pricing, distribution, uncertainty, stochastic models and welfare theories and | | | | | | |
| | explore the real market situations. | | | | | | |

| | Semester – II | | | | | |
|---|--|-----------------|------------|--|--|--|
| Course code: 455 202 | Macro Economics – II | Credits: 5 | Hours: 5 | | | |
| Objectives | \succ To provide detailed understanding on various | macro-econom | nic models | | | |
| | which would help the students to integrate the m | odels with theo | ory. | | | |
| Unit-I | Samuelson's Model- Interaction Between Multiplier and Accelerator- Hicks Theory – Discretionary Fiscal Policy for Stabilization – Financing Increases in Government Expenditure- Reduction in Taxes to overcome Recession - Fiscal Policy to Control Inflation- Crowding-out Effect and Effectiveness of Fiscal Policy- Tools of Monetary Policy – Monetary Policy to Cure Recession. | | | | | |
| Unit-II | Theories of Economic Growth: Technological Progress and Economic Growth – The Growth of Population – Capital Output Ratio- Income Effect and Capacity Effect – Impact of Increase in the Saving Rate- Effect of Population Growth – Long-run Growth and Technological Change – Endogenous Growth Model- Investment in Human Capital – Kuznets Curve | | | | | |
| Unit-III | Government and Macro Economy: Public Expenditure – Growth of Public Expenditure – Effects of Public Expenditure on Production and Distribution - Characteristics of a Good Tax System – Problem of Equity in Taxation – Benefits Received Theory – Ability to Pay Theory – Shifting the Burden of a Tax – Incidence of Tax and Elasticity of Demand – Elasticity of Supply – Tax and Cost Conditions of the Industry – Mobilization of Resources for Capital Formation –Fiscal Policy and Price Stability – Budget Deficit – Eiscal Deficit – Measures to Peduce Eiscal Deficit | | | | | |
| Unit-IV | Inflation and Unemployment: Meaning, Measures and Types of Inflation- Inflation in India – The Economic Effects of Inflation – The Classical and Neo Classical Theories of Inflation – The Keynesian Theory of Inflation – The Monetarist View on Inflation - Measures to Control Inflation – Inflation and the Rate of Unemployment- Modifications in Phillips Curve – Policy Dilemma: What is Desirable Inflation or Unemployment? | | | | | |
| Unit-V Poverty and Inequality: Measures of Poverty – Absolute and Poverty – Sen's Index – Capability Approaches – Income and Distribution – Lorenz Curve - Gini Concentration Ratio – Path Casino, Crony Capitalism – Income Distribution | | | | | | |
| Carlin W & Sockies D | o (2014) Macro Economics: Institutions Instability | and the Finance | ial System | | | |

Carlin, W. & Soskice, D. (2014). Macro Economics: Institutions, Instability and the Financial System. Oxford University Press. London.

David, R. (2011). Advanced Macroeconomics. McGraw Hill Higher Education. London.

Dornbusch, R. Fischer, S. & Richard, S. (2013). Macro Economics. Tata McGraw Hill Publishing Company Limited. New Delhi.

Dornbusch, R. Fischer. S & Startz, R. (2007). Macroeconomics. (9thed.). McGraw Hill. New York, NY.

Levacic, R. & Rebmann, A. (1982). Macro Economics: An Introduction to Keynesian - Neoclassical Controversies. Palgrave Macmillan. London.

Piketty, Thomas (2004). Capital in the Twenty First Century. The Belknap Press of Harvard University Press. Cambridge.

Wickens, M. (2011). Macroeconomic Theory: The Dynamic General Equilibrium Approach. Princeton University Press. New Jersey, NJ.

| Outcomes | \succ | Students | will | be | able | to | understand | macro | economic | theories, | inflation | and |
|----------|---------|----------|-------|-----|-------|----|---------------|-----------|---------------|-----------|-------------|-----|
| | | unemploy | yment | and | conte | mp | orary perspec | ctives or | n the role of | governme | ent policy. | |

| | Semester - II |
|-----------------------|--|
| Course code:455 203 | Issues in Indian Economic Development Credits: 4 Hours: 4 |
| Objectives | \succ To provide understanding about the basic characteristics of Indian |
| | economy and helps to analyse the progress and changing nature of |
| | various sectors and its contribution. |
| | Overview: State of the Economy at the Beginning of the Fifties - Policy |
| Unit-I | of Planned Development – Growth and Structural Change till the |
| | Eighties – New Economic Policy – Performance of the Economy since |
| | 1991 – Major Aspects of Transformation. |
| | Agricultural and Rural Sector: Review of Agricultural Growth - |
| Unit II | Green Revolution – Review Price and Other Policies - Policy Initiatives |
| 01111-11 | needed in relation to Agriculture and Rural Sector - Non-Farm |
| | Activities, Diversification and Exports – Impact of Liberalisation and |
| | WTO; Investment in Agriculture and Irrigation – Water Policy. |
| | Industrial Service and Infrastructure Sectors: The Growth and |
| | Maturing of Indian Industry since Liberalisation – Productivity Growth |
| Unit-III | and Rise in Competitiveness – Exports – Rise of Service Industry – |
| | India and I.T. – Policy regarding Public Enterprises – Disinvestment – |
| | Impact of WTO and Trade Liberalisation – State of Infrastructure – |
| | Promoting Investment in Infrastructure– Public-Private Partnership. |
| | Social Development: Human Development Indicators - Review of |
| | Change since early Fifties, Wide Regional Variations – Poverty |
| Unit-IV | Reduction Measures in India – Demographic Transition – Regional |
| | Differences – Health Services, Health Policy, Education Policy, |
| | Financing of Health and Education – Employment and Unemployment |
| | Trends: Employment Guarantee Scheme – Long-term Policy to reduce |
| | Poverty and Unemployment – MDGs - SDGs. |
| | Savings and Capital Formation: Growth Trends- Monetary and |
| Unit-V | Fiscal Policy Management- NITI Aayog- External Sector: Trade Policy, |
| | FDI, Exchange Rate Management- Investment Climate – Competition |
| | Policy – Human Development – Strategies for Sustainable Development |
| | at a High Kate. |
| Reference and Textboo | KS Dowlay & Amurag Danariaa (2018) Changing the Ludian Economy |

Rama Kanungo, Chris Rowley & Anurag Banerjee. (2018). *Changing the Indian Economy: Renewal, Reform and Revival.* Elsevier Asian Studies Series. Netherland.

Joshi, V. & Little, I.M.D. (1996). *India's Economic Reforms 1991-2001*. Oxford University Press. New Delhi.

Kapila, U. (2015). Indian Economy since Independence. (ed.). Academic Foundation. New Delhi.

Basu, K. (2004). India's Emerging Economy: Performance and Prospects in the 1990s and Beyond. (ed.). MIT Press. Cambridge.

Pulin, N. (2015). The Economic Development of India. Routledge. London.

Rangarajan, C. (2004). Select Essays on Indian Economy. Vol.1&2. Academic Foundation. New Delhi.

Rothermund, D. (1991). An Economic History of India from Pre-Colonial Times to 1991. (2thed.). Routledge. New York, NY.

Alamgir, J. (2009). India's Open Economy Policy: Globalism, Rivalry, Continuity. Routledge. London.

| Outcomes | \blacktriangleright This enables the students to know about the development process in India since | | | | | |
|----------|--|--|--|--|--|--|
| Outcomes | independence, understand the problems and measures in their contextual | | | | | |
| | perspectives and analyse the current issues. | | | | | |

| | Semester - II | | |
|--|--|--|--|
| Course code: 455 | 204Indian Financial Institutions and MarketsCredits: 4Hours: 4 | | |
| Objectives | To provide a comprehensive understanding about the nature and functions of the financial institutions in the Indian financial markets. | | |
| Unit-I | Introduction to Money: Simple Exposition to Money Demand and Money Supply - RBI and Measures of Money Supply - Commercial Banks and Credit Creation - RBI Control on Money Supply - Time Value of Money and Interest Rates. | | |
| Unit-II | Introduction to Indian Financial System: Overview of Indian Financial System - Functions of Financial System - Players - Structure and Growth - RBI and other Regulatory Bodies. | | |
| Unit-III | Money and Capital Markets: Indian Money Market - Instruments - Institutions - Functioning of Indian Money Market - Changes in the Regulatory Framework - Growth - Stocks and Bonds - Primary and Secondary Markets - Process of Initial Public Offer - Offer of Government Bonds - Stock Market Functioning - Stock Indices - Evaluation of Stocks and Bonds - Understanding Stock Market Information. | | |
| Unit-IV | Foreign Exchange Market: Exchange Rate - Types - Determination of Exchange Rate - Nature of FOREX Market - Nature of FOREX Inflow and Outflow - Examples of ECBs and NREs - RBI and Exchange Rate Management. | | |
| Unit-V Financial Derivatives: Need for Derivatives - Types of - Example of How Stock Index Derivatives could be u Risks in Stock Market Investment - Evaluation Derivatives - Foreign Exchange Derivatives and Swaps | | | |
| Reference and | Textbooks | | |
| Bhole, L.M. (20 Delhi | 02). Indian Financial Institutions and Market. Tata McGraw Hill Ltd. New | | |
| Denn. David, S. et al. (2005). Financial Institutions, Markets, and Money. (9thed.). Wiley Publication. New York, NY. Fabozzi, F.J. Modigliani, F.P. & Jones, F.J. (2009). Foundations of Financial Markets and Institutions, International Edition. Pearson Higher Education. New Jersey, NJ. Goldstein, M. (2006). Financial Regulation after the Subprime and Credit Crisis. Peterson | | | |
| institute. Wa | (a) Shington, D.C. | | |
| Madura I (2014 |). Financial Markets and Institutions. The Media Media Philications. Singapore | | |
| Pathak, B.V. (2) | 2007). The Indian Financial System: Markets, Institutions and Services. | | |
| Pearson Edu | ucation India. New Delhi. | | |
| Outcomes After completion of this course, the students will be able to understand the role and function of the financial system, evaluate and create strategies to promote financial products and services, the significance of foreign exchange market in reference to the macro economy | | | |

| | Semester – II | | | | | |
|----------------|--|--|-----------------------------|----------------------------|--|--|
| Course code: | 455 502 | Econometrics (E) | Credits: 4 | Hours: 4 | | |
| Objectives | | To provide basic understanding on the app | olication of ec | conometrics | | |
| | | in various economic analysis. | | | | |
| TI | | Basic Econometrics: Introduction – Econom | etrics - Natur | e, Meaning | | |
| Unit-I | | and Scope of Econometrics - Economic the | ory and Eco | nometrics - | | |
| | | Methodology of Econometrics - Uses of Econ | ometrics. | | | |
| | | OLS: Assumptions - Violations of OLS A | Assumptions | – Reasons, | | |
| Unit-II | | Cause, Effects, Solutions - Heteroscedasticit | y, Auto Corr | elation and | | |
| | | Multicollinearity – Identification of Va | ariables – | Models - | | |
| | | Predictability - Biases – BLUE. | | | | |
| | | Applications in Microeconomics: Consum | mer Demand | l Analysis: | | |
| | | Specification and Estimation of Demand Eq | uations – Es | timation of | | |
| Unit-III | | Engel Curves - Estimation of Complete | e Systems c | of Demand | | |
| | | Equations – Production Analysis: Specifica | tion and Esti | imations of | | |
| | | Production Functions: Cobb-Douglas, | CES and | Translog, | | |
| | | Measurement of Multifactor Productivity. | | | | |
| Unit-IV | | Applications in Macroeconomics: Demai | nd for Mone | ey - Term | | |
| | | Structure of Interest Rates - Phillips Curve - Exchange Rate and | | | | |
| | | Purchasing Power Parity. | | | | |
| | | Use of Econometrics Software: Uploading | g Raw Data | - Summary | | |
| Unit-V | Statistics - OLS Method: Model Specification, Estimation | | | | | |
| | | Interpretation, Diagnostic Checks - Time Ser | ries Analysis | : Unit Root | | |
| | | Tests, Co-integration Analysis, Estimation | of VAR Mo | del - Panel | | |
| | | Data Analysis. | | | | |
| Reference and | $\frac{1}{2} \frac{1}{2} \frac{1}$ | Deinsinles of Econometrics. An introduc | ation (Ilaina | | | |
| Halekar, K. I | N (2010) na India | . Principles of Econometrics: An introduc | ction (Using | R). Sage | | |
| Guiorothi D (| 10012 \mathbf{P}_{0} | sia Faanamatrias Tata MaGrayy Hill Naw Dal | hi | | | |
| Maddala GS | 2012). Da & Lohiri | $K_{\rm c}$ (2010). Introduction to Econometrics. John | III. Wilow & Son | 6 | | |
| New Vork | ∝ Laiiii, NV | K. (2010). Infoduction to Econometrics. John | whey asons | 5. | | |
| Patterson K | (2001) A | n Introduction to Applied Econometrics - A | Time Series | Approach | | |
| MacMillar | Press Lta | d London | Time Berres | rippiouen. | | |
| Pindyck, R.S. | & Rubinfe | eld DL (1997). Econometric Models and Eco | nomic Foreca | usts (4 th ed.) | | |
| Irwin McC | araw-Hill | New York, NY | | | | |
| Ramanathan, R | R. (2001). | Introductory Econometrics with Applications (| 5 th ed.). Cenga | age | | |
| Learning Ir | ndia Pvt. I | Ltd. New Delhi. | 8 | -8- | | |
| Thomas, R.L. (| (1993). In | troductory Econometrics: Theory and Applicati | ions. Longma | .n. London. | | |
| | By the | end of this course, the students will be able t | o interpret th | e results of | | |
| Outcomes | an estir | nated model and conduct statistical inference | to evaluate a | n economic | | |
| | model u | using statistical software. | | | | |

| | Semester – II (Non Major Elective - I) | | | | | |
|----------------------|--|--|--|--|--|--|
| Course code: 455 701 | Economics for Competitive Examinations Credits: 2 Hours: 3 | | | | | |
| Objectives | > To provide sufficient information and knowledge for writing | | | | | |
| | competitive examinations in the realm of economics. | | | | | |
| | Structure of the Indian Economy: Indian Economy Since 1900s - | | | | | |
| | National Income – Methods of Calculating National Income – VKRV | | | | | |
| Unit-I | Rao and Naoroji Contributions – Difficulties – Trends in National | | | | | |
| | Income in India – Sectoral Contribution Since 1950 – Population | | | | | |
| | Growth Since 1950s - Economic Development and Demographic | | | | | |
| | Changes – Growth Rate, Death Rate, Birth Rate – 3 Stages. | | | | | |
| | Economic Planning: Policy Objectives of Planning- Types of | | | | | |
| Unit-II | Planning – History of Planning in India– Review and assessment of | | | | | |
| | New Economic Policy and Liberalization, Privatization and | | | | | |
| | Globalization. | | | | | |
| | Agriculture and Industrial Development: Agricultural | | | | | |
| Unit-III | Development since 12 th century - under Five Year Plans- Structural | | | | | |
| | Change- Impact of New Economic Policy (1991) – Industrial | | | | | |
| | Development Under Five Year Plans – New Industrial Policy (1991). | | | | | |
| | State-wise Agriculture and Industry. | | | | | |
| | Banking and Fiscal Policy: History of Indian Banking System – | | | | | |
| Unit-IV | Functions of RBI – Nationalisation of Commercial Bank, | | | | | |
| | Development Bank- Co-operative Bank- Stock Exchanges- mula s | | | | | |
| | Tiscal Folicy – Tax leforin – introduction of VAT - 051. | | | | | |
| | Foreign Trade: India and the World Trade- Foreign Trade and | | | | | |
| Unit-V | Balance of Payment Since 1950s – Exchange Rate Policy – Foreign | | | | | |
| | Capital and Foreign Ai – Meaning of MNCs – FEMA-India and | | | | | |
| | WTO - Role of WTO – History of GATT, SAARC, ASEAN, BRICS. | | | | | |

References and Textbooks

Dutt, G. and A. Mahajan (2016). Indian Economy. S. Chand Publishing. New Delhi.

Government of India (various issues). *Economic Survey of India*. Economic Division. Ministry of Finance. Government of India. New Delhi.

Government of India (various issues). *Statistics and Abstract*. Ministry of Statistics and Programme Implementation. Government of India, New Delhi.

Gupta. K.R and J.R. Gupta (2008). Indian Economy. Atlantic Publishers. New Delhi.

Puri. V.K. and S.K. Misra (2016). *Indian Economy: It 's Development Experience*. Himalaya Publishing House. New Delhi.

Sankaran. S. (2014). Indian Economy. Marghan Publications. Chennai.

Outcomes \succ The students will be able to develop strong conceptual knowledge and analytical skills to excel in different competitive examinations.

| Semester - III | | | | | | | |
|--------------------------|---|---|------------------------------|----------------------|--|--|--|
| Course code | : 455 301 | Public Finance - I | Credits: 4 | Hours: 4 | | | |
| Objectives | ➤ To explain | the conceptual framework, theoretica | l dimensions ar | nd policy | | | |
| | underpinnings | of core public finance. | | | | | |
| | Role of Gove | ernment: Nature and Scope of Publ | ic Finance - R | ationale for | | | |
| Unit-I | Government I | ntervention – Musgrave's Three Fu | inctions of Go | vernment – | | | |
| | Types of Go | overnment Intervention – Product | ion Versus P | rovision – | | | |
| | Regulation of Markets – Sources of Public Revenue – Deficit Financing. | | | | | | |
| T T •/ T T | Taxation: Th | eories of Taxation: Ability and Ben | efit Principles | of Taxation | | | |
| Unit-II | (Lindhal), Pri | nciple of Maximum Social Advant | age- Taxable | Capacity – | | | |
| | Shifting and | Incidence – Types of Taxes – Cha | aracteristics of | Good Tax | | | |
| | Dublic Evno | nditure. Theories of Dublic Exp | anditura: Waa | nor's Low | | | |
| Unit-III | Peacock Hype | othesis Samuelson Theory of Publi | c Goods Bas | ics of Cost | | | |
| | Benefit Analy | sis | c Ooods- Das | les of cost | | | |
| | Decentralizat | ion: Rationale for Decentralization: | Economic. Ad | ministrative | | | |
| Unit-IV | and Political - | and Political – Assignment of Taxes and Expenditure between Various Tiers | | | | | |
| | of a Federal G | overnment – Rationale and Role of L | ocal Governme | nts. | | | |
| TT | Deficit Financing: Deficit Financing – Monetarist Versus Keynesian Views | | | | | | |
| Unit-V | – Pattern of Deficit Financing – Public Debt Management and Implication for | | | | | | |
| | Growth, Inflat | ion and Interest Rate. | | | | | |
| Reference a | nd Textbooks | | | | | | |
| Friedman, M | . (1959). A Mor | netary and Fiscal Framework for Eco | onomic Stabilit _. | y, in Essays | | | |
| in Positi | ve Economics (2 | ^{2nded.) University of Chicago. Chicag} | 0. | | | | |
| Government | of India (variou | s years). Economic Survey. Ministry | of Finance. Nev | <i>N</i> Delhi. | | | |
| Moore, W.S | . & Penner, R | . (Ed.) (1980). The Constitution at | nd the Budget | . American | | | |
| Enterpris | se Institute. Wa | shington, D.C., USA. | | Tata | | | |
| Musgrave, R | A. & Musgrav | e, P.B. (2004). Public Finance in I | neory and Pro | <i>actice</i> . Tata | | | |
| $\frac{1000}{1000}$ | A Modern Publ | II. <i>Tic Economics</i> Routledge London | | | | | |
| Hillman Δ | I (2003) Pul | blic Finance and Public Policy Ca | mbridge Unive | rsity Press | | | |
| London | L. (2005). 1 m | nie Finance und Fublie Folicy. Ca | inonage onive | 15ity 11035. | | | |
| Herber, B.P. | (1967). Modern | <i>Public Finance</i> , Richard D. Irwin, H | omewood. | | | | |
| Goode, R. (1 | (1907). Governme | ent Finance in Developing Countries. | TMH. New De | elhi. | | | |
| Atkinson, A. | B. & Stiglitz, J. | E. (1980). Lectures on Public Econom | nics. TMH. Nev | w York, | | | |
| | > On succes | sful completion of this course, s | tudents will | be able to | | | |
| Outcomes | demonstrate a | good understanding of the fiscal | framework, fi | scal policy | | | |
| | principles, tax | ation and policy choices, analysis of | key issues and | challenges | | | |
| | in fiscal policy | in a particular development or count | ry context. | - | | | |

| | | Semester - III | | | |
|---------------|---|---------------------------------------|-----------------------|-----------------|--|
| Course code | : 455 302 | Development Economics | Credits: 4 | Hours: 4 | |
| Objectives | \succ To exhor | t the students to understand the cond | cepts and issue | es of economic | |
| | growth and o | development, models, theories and de | evelopmental p | oolicies. | |
| | Concepts a | nd Issues in Economic growth: Di | istinction betw | veen Economic | |
| Unit-I | Growth and | d Economic Development – Fact | tors of Econ | omic Growth: | |
| | Economic ai | nd Non-Economic – Characteristics of | of Modern Eco | onomic Growth | |
| | – Inter-relati | lons among Modern Economic Grov | vth – Obstacle | s of Economic | |
| | Economic Development Herrod Domor Growth Model Strategy | | | | |
| Unit-II | Economic I | Development Big Push Strategy | Jwill Model | - Sublegy Of | |
| | Nurksian Si | nger's and Hirschman's Doctrine | Ashalanohis S | trategy | |
| | Theories of | F Conomic Growth and Developm | nent (Modern | and Partial). | |
| | The Neocla | ssical Growth Model with and y | without Techr | ical Progress | |
| Unit-III | Kaldor, Mi | rrlees. Solow. Denison. Abramov | vitz and Ken | drick– Partial | |
| | Theories: Ro | osentein-Roden, Nelson, Rostow- Du | ual Theory: Le | wis, Ranis and | |
| | Fei model, J | orgenson, Dixit and Marglin model. | • | | |
| | Planning and Development: Concept – Types of Planning – Policy Models | | | | |
| Unit-IV | - Projection Models - Development Planning Models - The Wage Goods | | | | |
| | model in Development Planning - Input-Output Analysis in Planning and | | | | |
| | Developmen | t – Linear Programming and Develo | pment Plannin | g. | |
| Unit-V | Policies and | Development : LPG Model – PUR | A – Pricing P | olicy – Labour | |
| | and Wage P | olicy – Agriculture and Industrial Po | licy – Foreign | Trade Policy – | |
| Defenence | Fiscal and N | Ionetary Policy – Inclusive Growth. | | | |
| Abmed A K | Ind Textbook | S Peet R (2010) New Economic Polic | v in India Ro | utledge Taylor | |
| and Fran | cis Abingdor | eet, K. (2010). Ivew Economic Tone | <i>y in maia</i> . Ro | utieuge, Tayloi | |
| Ray, D. (199 | 8). Developm | ent Economics. Princeton University | Press. New Je | rsev. NJ. | |
| Ghatak, S. (2 | 2003). An Intro | oduction to Development Economics. | Allen & Unw | in. London. | |
| Higgins, B. (| 1959). The Th | eory of Economic Growth. George A | Allen & Unwin | . London. | |
| Szirmai, A. (| 2005). Dynan | nics of Socio Economic Development | -An Introducti | on. Cambridge | |
| Universi | ty Press. Land | lon. | | | |
| Foley, D.K. | & Michl, T. | R. (1999). Growth and Distribution | n. Harvard Ur | iversity Press. | |
| Cambrid | ge. | | | | |
| Kapila, U. (2 | 015). Indian 1 | Economic Reforms. Academic Found | ation. New De | elhi. | |
| | \succ The stude | ents will be able to demonstrate abo | out inequalitie | s between rich | |
| Outcomes | and poor c | ountries, per capita income, ecor | nomic growth | , poverty and | |
| | inequality, i | demonstrate the familiarity with | les, models of | planning and | |
| | development | temonstrate the faminarity with | i the issues | or economic | |
| | uevelopmen | l. | | | |

| | Semester - III | | | | | |
|-----------------------------------|--|--|--|--|--|--|
| Course cod | e: 455 303 Research Methodology Credits: 4 Hours: 4 | | | | | |
| Objectives | \succ To impart knowledge in various kinds of research, the process and | | | | | |
| | techniques involved in carrying out research and writing the research report. | | | | | |
| | Scientific Research Method: Definition – Purpose and Principles of | | | | | |
| Unit-I | Scientific Method, Steps in Scientific Research – Ethical issues in research- | | | | | |
| | Types of Research: Applied and Action Research, Qualitative and Quantitative | | | | | |
| | Research, Development Policy and Participatory Research - Theory and Facts. | | | | | |
| | Process of Research: Identification and Formulation of Research Problem – | | | | | |
| Unit-II | Criteria in Selection of Topic- Literature Review — Objectives and | | | | | |
| | Hypothesis – Role and Functions – Independent and Dependent Variables - | | | | | |
| | Concepts and Model Building. | | | | | |
| TT •/ TTT | Methods of Research: Research Design and its Components – Exploratory, | | | | | |
| Unit-III | Descriptive and Experimental Methods of Research – Social Survey Method – | | | | | |
| | Case Study Method - Cross Sectional and Longitudinal Research - Historical | | | | | |
| | Method. | | | | | |
| | Tools of Data Collection and Analysis: Types of Data: Quantitative and | | | | | |
| | Qualitative – Continues and Discrete - Primary and Secondary Data Sources – | | | | | |
| T T 1 / T T7 | National Sample Survey and Census – Internet Sources - Methods of Data | | | | | |
| Unit-1V | Collection : Interview Method, Focus Group Discussion, Participatory Rural | | | | | |
| | Appraisal – Designing Schedule and Questionnaire – Raung Scale – Pre-Test | | | | | |
| | and Pilot Study – validity and Reliability Scales – Master Labulation – | | | | | |
| | Analytical Table Data Cleaning, Trimming, Univariate, Bivariate and | | | | | |
| | Report Writing, Format of Research Report Types of Reports Analysis | | | | | |
| Unit V | and Interpretation of Data Inference Ecotnotes and Endnotes Citations | | | | | |
| Unit-v | and Interpretation of Data – Inference - Footnotes and Endnotes – Citations – Deferences and Dibliggerphy Classery Droof Chaptering Summery | | | | | |
| | Preparation - Finalisation of Research Report | | | | | |
| Reference a | nd Teythooks | | | | | |
| Reference a Rhandarkar | PL & Wilkinson TS (2010) Methods and Techniques of Social Research | | | | | |
| Himalay | va Publishing House Mumbai | | | | | |
| Ghosh B N | (2007) Scientific Method and Social Research Sterling Publishers New | | | | | |
| Delhi | . (2007). Scientific method and Social Research. Sterning Fuensheis. New | | | | | |
| Gupta, S.P. | (2012) Statistical Methods S. Chands & Sons, New Delhi | | | | | |
| Kent. R. (20 | 001). Data Construction and Data Analysis for Survey Research. MacMillan. | | | | | |
| London | | | | | | |
| Kerlinger, F | N. (2000). Foundation of Behavioural Research. Rinehard & Winstion. New | | | | | |
| York, N | Y. | | | | | |
| Kishnaswan | ny, O.R. & Ranganatham, M. (2011). Methodology of Research in Social | | | | | |
| Sciences | s. Himalaya Publishing House. Mumbai. | | | | | |
| Kothari, C. | R. (2013). Research Methodology: Methods and Techniques. New Age | | | | | |
| Internat | ional Publishers. New Delhi. | | | | | |
| Kumar, H | R. (2014), Research Methodology: A Step-by-Step Guide for | | | | | |
| Beginne | rs. Sage Publishers, New Delhi. | | | | | |
| Young, P.V. | . (2008). Scientific Social Survey and Research. Prentice Hall. New Delhi. | | | | | |
| Outcomes | > The students will be in a position to design and execute research plans using | | | | | |
| | appropriate methodologies in conducting primary and secondary data based studies. | | | | | |

| Semester - III | | | | | |
|--------------------------|--|--|--|--|--|
| Course code | e: 455 304 International Economics - I Credits: 4 Hours: 4 | | | | |
| Objectives | \succ To provide a critical overview of the main economic theories relating to international trade. | | | | |
| Unit-I | Introduction to International Economics: Importance of International Economics – International Trade and Economic Growth – Subject Matter of International Economics – Purpose of International Economic Theories and Policies – Current International Economic Problems. | | | | |
| Unit-II | Theories of International Trade: Distinguishing Features of Internal and International Trade – the Pure Theory of international Trade: Theories of Absolute Advantage, Comparative Advantage and Opportunity Cost – Heckscher-Ohlin Theory of Trade: Factor Price Equalization Theory; Empirical Relevance of the H-O Theory. | | | | |
| Unit-III | Alternative Trade Theories: Vent-for-Surplus Approach– Kravis and Linders Theory of Trade– Imitation Gap and Product Cycle Theory- Role of Dynamic Factor in Explaining the Emergence of Trade- Trade Under Imperfect Competition and Increasing Returns to Scale – Measurement of Gains from Trade and Their Distribution. | | | | |
| Unit-IV | Economic Growth and International Trade: Introduction – Effect of Growth on Trade – Production and Consumption Effects of Growth Combined Effect – Effects of Growth on Terms of Trade; Immiserizing Growth – Technical Progress and International Growth – Import Substitution and Export Promotion Strategy. | | | | |
| Unit-V | Gains from Trade: Meaning – Factors Determining the Gains from Trade – Gains from Trade and Income Distribution – Measurement of Gains from Trade and their Distribution – the Gains from Trade in the Case of Large and Small Country – Free Trade Vs No Trade – Restricted Trade Vs No Trade. | | | | |
| Reference a | nd Textbooks | | | | |
| Bhatia, H. I Delhi | L. (2006). International Economics. Vikas Publishing House Pvt. Ltd. New | | | | |
| Desai, S.S.N | M. & Bhalerao, N. (2010). International Economics. Himalaya Publishing | | | | |
| Hallwood, C Publishin | C. P. & MacDonald, R. (2009). <i>International Money and Finance</i> . Blackwell ng. New Delhi. | | | | |
| Krugman, P. Policy (9 | R. Obstfeld, M. & Melitz, M. J. (2012). <i>International Economics: Theory &</i> 9 th ed.). Addison-Wesley. New Delhi. | | | | |
| Levi, M.D. Multinat | (2009). International Finance: The Markets and Financial Management of ional Business (5 th ed.). Routledge. New Delhi. | | | | |
| Mannur, H. | G. (2005). International Economics Theory and Policy Issues. Vikas Publishing | | | | |
| House P | vt. Ltd. New Delhi. (2016) International Economics (12 nd ed.) John Wiley & Sons, Singapore | | | | |
| Out | By the completion of this course, the students will be able to understand | | | | |
| Outcomes | the theories of international trade, gross gains from trade and differentiate standard, classical and orthodox trade theories. | | | | |

| | Semester - III | | | |
|------------------------------------|---|--|--|--|
| Course code | e: 455 503 Mathematics for Economics Analysis (E) Credits: 4 Hours: 4 | | | |
| Objectives | \succ To strengthen the fundamental mathematical skills essential for solving | | | |
| | economic problems. | | | |
| | Functions: Linear Algebra-Matrices-Operations – Determinants -Inverse- | | | |
| Unit-I | Cramer's Rule-Rank. Solution to System of Linear Equations – Functions: | | | |
| | Equations – Concepts –Intercept Parameter – Slope Co-efficient – Quadratic | | | |
| | forms - Application in Micro Economics – Equilibrium. | | | |
| Unit-II | Differential Calculus: Derivatives: Partial Derivatives – Youngs Theorem | | | |
| | Total Differential - Marginal and Elasticity Concepts - Production and Cost | | | |
| | Analysis - Driving Marginal and Average Cost and Revenues. | | | |
| Unit-III | Optimization Through Derivatives: Optimization Technique -Maxima and | | | |
| | Minima - First and Second Order Conditions - Utility and Profit | | | |
| T T 1 / T T 7 | Maximization - Cost Minimization. | | | |
| Unit-IV | Integral Calculus: Definite and Indefinite Integrals - Application in Micro | | | |
| | Economics: Consumer and Producers Surplus. | | | |
| TT . •4 T7 | Input-Output Models and Linear Programming: Input-Output Models: | | | |
| Unit-V | Open and Closed Models – Static and Dynamic Models - Linear | | | |
| | Programming – Graphic and Simplex Method - Maximisation and Minimisation Problems | | | |
| Minimisation Problems. | | | | |
| Reference a | G (1981) Foundations of Analysis Combridge University Press I onder | | | |
| Sydsaeter k | C. & Hammond P.I. (2002) Mathematics for Economic Analysis Pearson | | | |
| Educatio | n India New Delhi | | | |
| Intriligator | M D (1971) Mathematical Optimization and Economic Theory Prentice Hall | | | |
| New Jer | sev. NI | | | |
| Bartle, R.G. | & Sherbert, D.R. (2000). Introduction to Real Analysis. John Wiley & Sons. | | | |
| New Jer | sev. NJ. | | | |
| Dhrymes, P., | J. (2013). <i>Mathematics for Econometrics</i> . Springer, Singapore. | | | |
| Allen, R.G.I | D. (1986). Mathematical Analysis for Economists. Macmillan India Ltd. New | | | |
| Delhi. | | | | |
| Chiang, A.C | 2. (1985). Fundamental Methods of Mathematical Economics. McGraw Hill. | | | |
| New Del | lhi. | | | |
| Gupta, S.P. (| 1997). Statistical Methods. S. Chand and Sons. New Delhi. | | | |
| Gupta, S.C. | & Kapoor, V.K. (1997). Fundamentals of Applied Statistics. S. Chand & Sons. | | | |
| New De | hi. | | | |
| Outcomes | \succ On successful completion of this course, students will be able to | | | |
| Jucomes | understand the mathematical knowledge and expertise to the problems of | | | |
| | economics. | | | |

| | Semester – III (Non Major Elective – II) | | | | |
|---------------|--|---|----------------|--------------------------|--|
| Course code | e: 455 702 | Statistics for Decision Making | Credits: 2 | Hours: 3 | |
| Objectives | | > To familiarise the importance of the | he applicatio | n of basic | |
| Objectives | | statistical methods in decision making for | r the students | from other | |
| | | disciplines than Economics. | | | |
| | | Measures of Central Tendency: Appl | lication of M | leasures of | |
| Unit-I | | Central Tendency- Computing Mean, M | edian, Mode, | Geometric | |
| | | Mean, Harmonic Mean and Weighted A | verages – Its | Usefulness | |
| | | in Research and Decision Making. | _ | | |
| | | Measures of Dispersion: Use of Me | easures of I | Dispersion- | |
| Unit-II | | Computing Range, Mean Deviation, Qua | rtile Deviatio | n, Standard | |
| | | Deviation and Coefficient of Variati | ion – Signi | ficance of | |
| | | Dispersion in Decision Making. | | | |
| Unit-III | | Probability: Meaning of Probability – | Binomial, Po | oisson, Chi- | |
| 0 | | square, 't' and 'F' tests for Small and Large Samples - | | | |
| | | Usefulness of these Measures in Research | n. | | |
| Unit-IV | | Correlation: Correlation Analysis – | Types of Co | rrelation – | |
| | | Interpretation of 'r' in analysis – Application of Correlation in | | | |
| | | Empirical Works and in Decision Making | 5. | | |
| | | Regression Analysis: Methods of Es | timation of | Regression | |
| Unit-V | | Coefficient – Simple Linear Regression | Model, Mult | tiple Linear | |
| | | Regression Model – Interpretation of Re $1D^2$ | gression Coe | fficients R ² | |
| | | and R ² – Computing different Growth Ra | ites. | | |
| Reference and | nd Textboo | oks | | | |
| Agarwal, Y | .P. (1998). | Statistical Methods: Concepts, Applicati | ions and Co | mputations. | |
| Sterling | Publishers. | New Delhi. | | | |
| Damodar Gu | ijarati, (201 | 3). Basic Econometrics. Tata Mcgraw Hill | . New Delhi. | 1 5 11 ' | |
| Gupta, C.B. | (2005). An | Introduction to Statistical Methods. Vikas | Publishers. F | New Delhi. | |
| Gupta, S.C. | (2000). Fun | damentals of Statistics. Himalaya Publishi | Ing House. B | ombay. | |
| Gupta, S.P., | (2009). Stat | tistical Methods. S. Chand & Company. N | lew Delhi. | · · | |
| Murray, R. S | Murray, R. Spiegel, (2012). Theory and Problems of Statistics. McGraw-Hill. Singapore. | | | | |
| wooldfidge, | wooldridge, M. (2009). Introductory Econometrics: A Modern Approach. Cengaga | | | | |
| Learning | | are Limited. Delli. | other these | | |
| Outcomer | ► At the diagonalization | will be able to get a comprehensive by | ouner than | deconomics | |
| Outcomes | usciplines | will be able to get a comprehensive ki | nowledge in | descriptive | |

Outcomes disciplines will be able to get a comprehensive knowledge in descriptive statistics, probability and inferential statistics which are most commonly used for decision making.

| Semester - IV | | | | | | |
|---|---|---|-------------------|--------------|--|--|
| Course code | e: 455 401 | Monetary Economics | Credits: 4 | Hours: 4 | | |
| Objectives | \succ To provide an exposition about the various core monetary theories, policies | | | | | |
| | and its us | and its usefulness in real world situation. | | | | |
| | Monetary T | heories: The Quantity Theory of Mo | oney – The C | lassical and | | |
| Unit-I | Keynesian Th | neory – Milton Friedmen's Quantity | Theory - Dor | n Patinkin's | | |
| | Integration Th | eory- Tobin's Portfolio Analysis – Baur | nol's Inventory | Approach – | | |
| | Gurley and Shaw Thesis – Radcliffe Committee – Sayer's Thesis. | | | | | |
| | Money Supp | ly and Banking: Money Supply Com | ponents (M1, N | A2, M3 and | | |
| | M4) and Dete | erminants of Money Supply – High Pow | vered Money – | Riefler and | | |
| Unit-II | Burgess Hyp | othesis on Money Supply (UK, US, | A – Non–Ban | k Financial | | |
| | Intermediaries | b)- Credit Creation by Commercia | l Banks and | Monetary | | |
| | Transmission | - Central Bank and Credit Control | – Narasimham | Committee | | |
| | Recommendat | tions – Autonomy of RBI, MPC. | | | | |
| | Theories of I | nterest: Classical and Neoclassical The | ory of Interest - | - Modigliani | | |
| Unit-III | Stock Vs Flo | w Analysis – Structure of Rate of Int | erest – Segmen | nted Market | | |
| | Theory, Liqui | dity Premium, Portfolio Behavior The | eory – Expecta | tion Theory | | |
| | (Yield Curve - | – Short-run and Long-run.) | | | | |
| | Money Mark | et and Capital Market: Features of Ca | pital and Mone | y Markets – | | |
| | Characteristic | s of Undeveloped and Developed Mond | ey Market – In | dian Money | | |
| Unit-IV | Market: Treasury Bills – CRR, SLR, Repo Rate (Repurchase)- Capital Market: | | | | | |
| 0 | Primary and Secondary Markets – NPAs- Capital Asset Pricing Model, William | | | | | |
| | Sharpe – Markowitz model on Risk and Return – Alpa and Beta Securities – | | | | | |
| | Stock Exchan | ige: BSE and NSE– SEBI – Derivativ | ves, Hedging, S | Swap (Only | | |
| | Concepts). | For Dala of Manatam Dalian in Dava | lenine Deenem | . I a co in | | |
| IIn:4 V | Monetary Po | incy: Kole of Monetary Policy in Deve | Croat Dabata | y - Lags m | | |
| Unit-v | Monetary Policy – Monetary VS Fiscal Policy, the Great Debate – Inflation – | | | | | |
| | Impact of Financial Sector Reforms in India Efforts to Unearth Block Money | | | | | |
| References | Impact of Time | anciai Sector Reforms in India – Erforts (| | k Wolley. | | |
| Dewett K K | (2006) Moder | rn Economic Theory S Chand Company | Pvt Ltd New | Delhi | | |
| Dornbusch. | R.: Fischer. S | and S. Richard (2013). Macro Econ | omics. Tata M | cGraw Hill | | |
| Publishi | ng Company Li | mited. New Delhi. | | | | |
| McCallum, B.T. (1989). Monetary Economics: Theory and Policy Macmillan | | | | | | |
| McConnell, C.R. and H.C. Gupta (1987). Introduction to Macro Economics. Tata McGraw Hill | | | | | | |
| Publishing Company Limited. New Delhi. | | | | | | |
| Pierce, D.G. and P.J. Tysome (1985). Monetary Economics: Theories. Evidence and Policy. | | | | | | |
| Butterwo | orths. London. | · · · | | - | | |
| Walsh, C.E. (1998). Monetary Theory and Policy. MIT Press. Cambridge. Massachusetts. USA. | | | | | | |
| 0 | > Students | will be able to explain major monetary | theories, the ma | ain channels | | |
| Outcomes | of monetary | transmission mechanism, develop under | standing of mo | ney market, | | |
| | capital marke | et and their real effects on the economy. | - | - | | |

| | Semester - IV | | | |
|---|--|--|--|--|
| Course code: 45 | 5 402 Agricultural Economics Credits: 4 Hours: 4 | | | |
| Objectives | To provide a detailed account on the development of agricultural economy and the related issues with a special focus on Indian agriculture. | | | |
| Unit-I | Agriculture and Economic Development: Nature and Scope - Traditional Vs. Modern Agriculture– Green Revolution and its Impact - Sustainable Agriculture and Organic Farming – Interdependence between Agriculture and Industry - Agrarian Crisis - Farm subsidy - Experiences of Developed and Developing Countries. | | | |
| Unit-II | Cropping Pattern and Corporate Farming: Cropping Pattern and its Dynamics – Mono Cropping - Cropping Intensity and its Determinants - Economic Logic of Cropping Pattern – Recent Trends in Agriculture: GM Crops and its Economics – Corporate Farming. | | | |
| Unit-III | Agriculture Inputs and Productivity: Land and its Utilization – Seed and its Importance - Irrigation Sources and Development – Mechanization and its Impact on Labour – Fertiliser and its Impact on Productivity – Trends in Production and Productivity of Crops - Production Function Analysis in Agriculture – Farmers' Suicides. | | | |
| Unit-IV | Agricultural Finance and Capital Formation: Need for Agricultural Finance – Sources of Agricultural Finance: Non- institutional and Institutional Sources - Indebtedness: Meaning, Reasons and Impact - Farm Capital Structure and its Changes – Relationship between Public and Private Investment. | | | |
| Unit-V | Agricultural Markets and Prices: Characteristics of Primary Agricultural Markets in India - Marketable Surplus and Marketed Surplus – Marketing Agencies and Channels - Agricultural Price in India: Objectives and Instruments of Agricultural Price Policy – Cost Concepts - Role of CACP – Supply Response – WTO and Agricultural Exports – Farm Profitability in India. | | | |
| References and 7 | fextbooks | | | |
| Bhaduri, A. (1984 Bhalla, G. S and Publications |). The Economic Structure of Backward Agriculture. MacMillan. New Delhi. G. Singh (2011). Indian Agriculture: Four Decades of Development. Sagee New Delhi | | | |
| Dantwala, M.L. e and IBH. Nev | et al (1991). Indian Agricultural Development Since Independence. Oxford v Delhi. | | | |
| Gualti, A. and T. Press. New D | Kelly (1999). Trade Liberalisation and Indian Agriculture. Oxford University elhi. I D.D. Tyagi (1983). Agriculture Price Policy in India. Allied Publishers. New | | | |
| Delhi. Puri, V.K. and S.K. Misra (2016). Indian Economy: It's Development Experience. Himalaya | | | | |
| Publishing House. New Delhi.Rao, C.H.H. (2004), Agricultural Growth, Rural Poverty and Environmental Degradation in India. Oxford University Press. New Delhi. | | | | |
| Outcomes au au m W | Students will be able to understand the interdependence between agriculture industry, the concepts like productivity, production function analysis, rketable surplus, marketed surplus and instrument of agriculture price policy, TO and agricultural exports. | | | |

| Semester – IV | | | | | |
|---|---|--|--------------------------|-----|--|
| Course code | e: 455 403 | Public Finance – II | Credits: 4 Hours: 4 | 4 | |
| Objectives | ➤ To provide budgeting | e a detailed account on the trends of | revenue, expenditure an | nd | |
| Unit-I | Trend and Pattern of Public Revenue: India's Public Revenue – Taxes of Union, State and Local Governments – Trends in Tax Revenue – Tax-GDP ratio-Tax and Distributive Justice – Direct Versus Indirect Taxes – Tax Reforms - Rate and Procedure of Rationalization – GST in Union and State Taxes | | | | |
| Unit-II | Trend and Pattern of Public Expenditure: India's Public Expenditure – Trend in Union, State and Local Government's Public Expenditure – Public Expenditure/GDP – Change in the Composition of Public Expenditure: Developmental Versus Non-Developmental, Plan Versus Non Plan, Revenue Versus Capital – Economic and Functional Classification of Public Expenditure – Implications. | | | | |
| Unit-III | Basics of Budgeting: Constitutional Basis for Budgeting – Process of Passing Finance and Appropriation Bills in the Parliament/Assembly – CAG and PAC – FRBM – Deficit, Public Debt and Monetary Management. | | | | |
| Unit-IV | Centre-State Financial Relations: Role of Finance Commission in Filling Vertical and Horizontal Fiscal Imbalance – Plan Transfers and Discretionary Transfers – Latest Finance Commission Report of the Union and State | | | | |
| Unit-V | Recent Fiscal Reforms: Latest Commentary on India's Fiscal Policy – Tax Reforms, Expenditure Pruning, Constitutional Constraints on Deficit - Fiscal and Monetary Policy Nexus. | | | | |
| Reference a | nd Textbooks | | | | |
| Friedman, M | Friedman, M. (1959). A Monetary and Fiscal Framework for Economic Stability, in Essays in | | | | |
| Positive | Economics. (2 ⁿ | ^d ed.). University of Chicago. Chicago. | | | |
| Government of India (various years). Economic Survey. Ministry of Finance. New Delhi. Moore, W.S. and R. Penner (1980). The Constitution and the Budget. (ed.). American Enterprise Institute Washington D.C. | | | | an | |
| Musgrave, I | R.A. & Musgr | ave, P.B. (2004). Public Finance in T | Theory and Practice. Ta | ita | |
| McGraw Hill. New Delhi. | | | | | |
| Jha, R. (1998). Modern Public Economics. Routledge. London. | | | | | |
| Hillman A. I | L. (2003). Public | c Finance and Public Policy. Cambridge | University Press. London | 1. | |
| Herber, B.P. (1967). Modern Public Finance. Richard D. Irwin. Homewood. | | | | | |
| Goode, R. (1986). Government Finance in Developing Countries. TMH. New Delhi. | | | | | |
| Atkinson, A | \mathbf{D} . $\mathbf{\alpha}$ Sugniz, J. | E. (1960). Lectures on Public Economic | S. IIVIA. New IOK, NY. | nd | |
| Outcomes | financing activities of the government and a thorough grounding of principles underlying the role of the state and centre financial relations. | | | | |
| | principles un | derrying the role of the state and centre r | manetal relations. | | |

| Semester - IV | | | | | |
|--------------------------|--|-----------------------------------|----------------|--|--|
| Course code: 455 404 | International Economics - II | Credits: 4 | Hours: 4 | | |
| Objectives | \succ To provide a detailed account on the balance of payments and the | | | | |
| | related issues. | | | | |
| | Terms of Trade, Tariff and Protection: C | concept of Terms | s of Trade – | | |
| | Their Uses and Limitations – its importance | e in the Theory | of Trade – | | |
| | Secular Deterioration of Terms of Trade, i | ts Empirical Re | elevance and | | |
| Unit-I | Policy Implications for Less Developed Coun | tries – Trade as | an Engine of | | |
| | Growth – Theories of Terms of Trade: Views | of British Schoo | ol, Rawl, and | | |
| | Singer and Prebisch– Theory of Intervention | Economic Effe | ects of Tariff | | |
| | on National Income - Terms of Trade and Inco | ome Distribution | ı – Effects of | | |
| | Quotas – Effective Rate of Protection. | | | | |
| | International Economic Integration: Benef | fits of Integration | n – Types of | | |
| IInit-II | Integration - Forms of Economic Cooperation - the Theory of Custom | | | | |
| Cint-11 | Union – its Features – Partial and General Equilibrium Approach – Vanek | | | | |
| | Model – Welfare Gains or Losses from a Custom Union – Lipsey Model – | | | | |
| | Dynamic Effects of Custom Union. | | | | |
| | Balance of Payment: Meaning Structure and | d Components o | f Balance of | | |
| | Payment – Equilibrium and Disequilibrium i | n the Balance o | f Payment – | | |
| Unit-III | Consequences of Disequilibrium in the Balar | nce of Payment - | – Balance of | | |
| | Payment and Balance of Trade – Causes and Methods of its Correction | | | | |
| | (Monetary and Non- Monetary Measures and Their Relative Merits and | | | | |
| | Demerits). | | | | |
| | Review of National Income and Balance | e of Payment | Accounting: | | |
| Unit-IV | National Income Accounts and Balance of Pay | yments Accounts | s: Balance of | | |
| | Trade, BOP on Capital and Current Account, Overall BOP, BOP | | | | |
| | Accounting Principles (Credits and Debits, Double Entry Book Keeping). | | | | |
| | Balance of Payment and Policy: Automa | atic Adjustment | Mechanism | | |
| Init_V | under Gold Standard – Balance of Payme | ent and Nationa | ıl Income – | | |
| Cint-V | Expenditure Reducing and Expenditure S | witching Policie | es – Direct | | |
| | Control for Adjustment – Policies for Achieving Internal and External | | | | |
| | Balance. | | | | |
| Reference and Textbooks | | | | | |
| Bhatia H.L. (2006) Inter | national Economics Vikas Publishing House N | lew Delhi | | | |

Desai, S.S.M. & Bhalerao, N. (2010). International Economics. Himalaya Publishing House. New Delhi.

- Hallwood, C.P. & MacDonald, R. (2009). International Money and Finance. Blackwell Publishing. England.
- Krugman, P.R. Obstfeld, M. & Melitz, M.J. (2012). *International Economics: Theory & Policy*, (9th ed.) Addison-Wesley. Boston.
- Levi, M.D. (2009). International Finance: The Markets and Financial Management of Multinational Business, (5th ed.). Routledge. London.
- Mannur, H.G (2005). International Economics Theory and Policy Issues. Vikas Publishing House. New Delhi.
- Salvatore, D. (2016). International Economics. (12th ed.). John Wiley and Sons. Singapore.

| | > The students will be able to familiarise the major models of |
|----------|--|
| Outcomes | international trade, differentiate in terms of their assumptions and |
| | implications, critically analyse the relevance of terms of trade and usage |
| | of appropriate measures to correct the BOP and trade reforms. |

List of Elective Courses

| Course code | e: 455 504 Energy Economics | Credits: 4 | Hours: 4 | | | |
|---|--|--------------------|------------------|--|--|--|
| Objectives | > To provide an understanding about the role of energy in economic activity, | | | | | |
| Objectives | economic methods of assessing energy technologies to address the problem | | | | | |
| | issues concerned with energy. | | | | | |
| | Introduction to Energy Economics: Natural Re | sources: Import | ance; Role of | | | |
| Unit-I | Natural Resources in Economic Development- E | nergy Resource | es: Types and | | | |
| | Classification, Properties of Energy, Forms of Energy- Emergence of Energy | | | | | |
| | Economics: Its Scope and Nature; Energy Indicators – Energy Economics and | | | | | |
| | its relations with other Branches. | | | | | |
| | Energy and Development: Role of Energy 1 | n Economic D | evelopment – | | | |
| Unit-II | Energy Intensity and Elasticity - National and Inte | rnational Comp | arison – Low, | | | |
| | Middle and High Income Economies – Role of Inte | ernational Institu | utions: OPEC, | | | |
| | IEA and World Bank. | <u> </u> | 7 | | | |
| | Energy and Environment: Energy crisis: | Causes and C | Consequences, | | | |
| Unit-III | Remedial measures– Environmental Crisis: Cause | es and Consequ | ences; Impact | | | |
| | of Energy Consumption and Production on Enviro | onment– Kole (| of Energy and | | | |
| | Environmental Economists in solving Energy Crist | 8. 4. E | Dlauring and | | | |
| | Energy Conservation and Energy Managen | ent: Energy | Planning and | | | |
| Unit-IV | Energy Conservation: Meaning, Objectives and Importance– Energy | | | | | |
| | Management: Meaning, Objectives and Importance – Recent Developments: | | | | | |
| | Energy Auditing, Energy Accounting, Energy Pricing and Taxes– Sustainable | | | | | |
| | India's Energy Drofiles Indian Energy Sector | Organizationa | 1 Ctmpotumo | | | |
| | Energy Supply (Cool Oil Cos and Dower by Hydro Nuclear Thermal) | | | | | |
| Unit-V | Energy Supply (Coal, Oil, Gas and Power by Hydro, Nuclear, Inermal) – Energy Demand for Agriculture Industry Transport and Demastic Renewable | | | | | |
| | Energy Sources and Technology – Renewable F | nergy Program | mes = Fnergy | | | |
| | Generation under Five Year Plans – Energy Issues and Policy Options for India | | | | | |
| Reference an | Reference and Textbooks | | | | | |
| Agarwal, S. | K. (1985). Environment and Natural Resources | Economics. Sc | ott Foresman | | | |
| Compan | y. London. | | | | | |
| Common, M | . (1985). Environmental and Resource Economics. L | ongman. Londo | on. | | | |
| Government | of India, 10 th and 11 th Five Year Plan Documen | its, Planning Co | ommission of | | | |
| India. | | | | | | |
| Munasinghe, | , M. and P. Meier (2008). Energy Policy and Mod | leling. Cambrid | ge University | | | |
| Press. UK. | | | | | | |
| Rao, H. (199 | Rao, H. (1990). Rural Energy Crisis: A Diagnostic Analysis. Ahish Publishing House. New | | | | | |
| Delhi. | | | | | | |
| TERI (2010). TERI Energy Data Directory and Year Book. The Energy Research Institute. | | | | | | |
| New Del | $(E_1) (1007) P (E_1) = E (E_1) E (E_1)$ | G | | | | |
| William, B. | (Ed.) (1997). Readings in Ecology, Energy and Hi | uman Society: (| contemporary | | | |
| rerspect | 1 Ves. Harper and KOW. New 101K. Students will be able to understand the energy official | ciency concernat | ion and role of | | | |
| Outcomes | energy in economic development key factors to be cor | sidered in evalua | ting alternative | | | |
| | energy policy options. | istacted in evalua | and anomative | | | |

| Course code | e: 455 505 | Environmental Economics | Credits: 4 Hour | rs: 4 | |
|--|---|---|-------------------------------|--------|--|
| Objectives | \succ To expose the knowledge about the relation between economy and | | | | |
| | environment and basic economic principles and concepts used. | | | | |
| | Introduction: Environment – Eco-system – Nexus between Ecology and Economics – The Principle of Material Balance – Trade-off between Economic Growth and Sustainable Development – Limits to Growth – Global Warming – | | | | |
| Unit-I | | | | | |
| | | | | | |
| | Environmenta | l Issues in different Economic Systems | <u>,</u> | | |
| | Cost Benefit | Analysis: Environmental Pollution | – Sources and Type | es of | |
| Unit-II | Pollution -1 | areto Optimality – Externality – Social Cost and Efficiency- | | | |
| | Divergence b | tween Social and Private Cost – P | roblem of Second B | est – | |
| | Environmenta | 1 Impact Assesment – Cost-Benefit Ana | uysis. | | |
| | Externalities | and Environmental Monitoring: Env | ironmental Externalit | ies – | |
| Unit-III | Pigouvian Ta | kes and Subsidies- Pollution Permits and | nd Mixed Instruments | (The | |
| | Charges and S | Standards Approach) – Coase's Bargain | ing Solution and Colle | ctive | |
| | Action- Info | mai Regulation and the New Moo | let of Pollution Col | ntrol- | |
| | Mothoda of V | A Emotement of Environmental Regu | ations. | 1 | |
| | Valuation Me | Methods of Valuation: User Values, Option Values and Non-use Values; | | | |
| Unit-IV | Valuation Methods – Methods based on Observed Market Benaviour; Hedonic Property Values and Household Production Models (Travel Cost Method and | | | | |
| | Household Health Production Function) Methods based on Response to | | | | |
| | Hypothetical Markets, Contingent Valuation Method – Cost Based Methods, | | | | |
| | Environment | Environment Policy: Policy Measures: Basic Approaches to Environmental | | | |
| T | Policy – Regulation and Effluent Fees: A Comparison – Distributive Effects of | | | | |
| Unit-V | Environmental Policy – International Environmental Policy – India's | | | | |
| | Environmental Policy – Law on Environmental Protection and Pollution Control | | | | |
| | in India. | | | | |
| Reference a | nd Textbooks | | | | |
| Barry, C.F. (| 1994). Environ | mental Economics, McGraw Hill. Ince. | International, | | |
| Butin, J.A. (| 1981). The Eco | nomics of Environmental and Natural I | <i>Resource Policy</i> . West | view | |
| Press. Bo | oulder. Colorad | | | 1 | |
| Centre for Science and Environment (various issues). <i>Citizens Report on Environment</i> . Centre | | | | | |
| for Science and Environment. New Delni. | | | | | |
| Chand, Add (1903). Environmental Chanenges. UPH Publishers. New Delli. | | | | | |
| V_{L} Soluting jake (1992). Economics and the Environment: A Kneese V Δ Avres R II and C Δ Ralph (2015). Economics and the Environment: A | | | | | |
| Materials Balance Approach Routledge, Taylor and Francis, Abingdon UK | | | | | |
| Robert, E.A. (1983). <i>Man and Environment</i> , Penguin Books. | | | | | |
| | > This cou | rse will enable the students to und | erstand the link bet | ween | |
| Outcomes economic principles and environmental issues, the ways in which | | | | e key | |
| | concepts are | used in applied policy analysis. | · | - | |

| Course code | : 455 506 | Project Planning and Evaluation | Credits: 4 | Hours: 4 | | |
|--|---|--|---------------------------|-----------------|--|--|
| Objectives | \blacktriangleright To provide exposure to the students about the methodology for preparing | | | | | |
| | project proposal and evaluating the projects of all aspects. | | | | | |
| IInit-I | Project - | Basic Concepts: Project: Concept, Chara | acteristics, Cla | assification – | | |
| Unit-1 | Project L | ife Cycle – Identification and Sources of I | Project – Fran | ning the | | |
| | Objective | es of Project. | | <u> </u> | | |
| | Project l | Formulation: Methodology – Project Feas | sibility Analy | sis: Techno- | | |
| Unit-II | Economi | c Feasibility, Input Feasibility, Project De | sign, Networl | k Feasibility | | |
| | and Final | ncial Feasibility, Project Social Cost Bene | fit Feasibility | – Pre- | | |
| | Investme | nt Report. | fforent Ease | 1.11.4 | | |
| Unit-III | A nolucio | Appraisal: Methodology – Appraisal of D | villerent Feasi | Dility | | |
| | Tachnicu | - Criteria for Project Appraisal – Discour | ned and On-d | iscounted | | |
| | Project N | Nonitoring: Methodology – Aspects to be | Covered – Г | Designing | | |
| Unit-IV | and Oper | ating the Monitoring System $-$ Tools $-$ R | te of Disparit | ty and | | |
| | Mileston | e Approach. | | ly und | | |
| | Project 1 | Project Evaluation: Need for Evaluation – Criteria for Evaluation- | | | | |
| Unit-V | Performa | Performance indicators – Impact of the Project – Evaluating the Worthiness | | | | |
| | of Project – Project Replication. | | | | | |
| Reference an | nd Textbo | oks | | | | |
| Gittinger J, | Price. (198 | 84). Economic Analysis of Agricultural | Projects. 2 nd | Edition. the | | |
| Johns Ho | opkins Univ | versity Press. London. | | | | |
| Lettle, IMD | and Mir | reles (1974). Project Appraisal and I | Planning for | Developing | | |
| Countrie | s. Oxford a | nd INH Publishing Co. New Delhi. | | | | |
| Mathoo P.K. (1978). Project Formulation in Developing Countries. South Asia Books. | | | | | | |
| New Del | hi. | $(1079) C \rightarrow D C \rightarrow L \rightarrow C$ | | · · · · · · · · | | |
| Mishra S.N. and J. Beyer. (1978). Cost Benefit Analysis – Case study of Ratnagiri Fisheries | | | | | | |
| Project. Hindustan Publishing Corporation. Delhi. | | | | | | |
| Publishing Corp. Nalvor | | | | | | |
| Fuonshing Colp. Netyon. Pandey I M (2010) Financial Management Vikas Publishing New Delhi | | | | | | |
| Prasanna Chandra (1987) Project-Preparation Appraisal Rudoeting and Implementation | | | | | | |
| Tata Mc Grow Hill. New Delhi | | | | | | |
| Puttaswamaiah K. (1980). Project. Evaluation Criteria and Cost-Benefit Analysis. Oxford | | | | | | |
| and IBH Publishing. New Delhi. | | | | | | |
| Outcomes | Studen | ts will be able to assess different approach | es to project | | | |
| | manageme | ent, critically evaluate a project and also p | resent a proje | ct plan. | | |
| | - | | | - | | |

| Course code | : 455 507 | Industrial Economics | Credits: 4 | Hours: 4 | | |
|--|---|--|-------------------------|---------------|--|--|
| Objectives | To provi | de a detailed account on the development | nt of industrial e | conomy and | | |
| | the related issues with a special focus on Indian Industries | | | | | |
| | Role of Industries in Development: Concepts of Industrial Economics- | | | | | |
| Unit-I | Rational c | of Industrialization- Evolution of Ir | dustries in Ir | ndia- Need, | | |
| | Importance | and Role of Industries in Econom | ic Developmen | t- Linkages | | |
| | between In | dustry and Agriculture Sectors- Industri | al Developmen | t-Experience | | |
| | of Develop | ed and Developing Countries. | | | | |
| | Entrepren | eurs and Industry: Definition of | Industrial Er | trepreneurs- | | |
| T T 1 / T T | Entrepreneu | irial Motivation- Types, Characteristics | and Functions | of Industrial | | |
| Unit-II | Entrepreneu | irs- Role of Entrepreneurs in Econor | nic Developme | int- Role of | | |
| | Women En | trepreneurs in the Industrial Developm | ent- Rural Entro | epreneurship | | |
| | Developme | nt in India- Institutional Finance to E | intrepreneurs D | evelopment- | | |
| | Problems of | f Industrial Entrepreneurs. | | . 15 / | | |
| | Industrial | Location: Determinants of Industrial I | Location: Techn | ical Factors, | | |
| Unit-III | Economic | and Infrastructural Factors, Other Factors | tors- Theories (| | | |
| | Location: | Central Place Theory, Renner's Theory | ory, Rawstron s | S Principles, | | |
| | weber s 1. | neory, the Market Area Theory of To | rd Palander, C | entral Place | | |
| | Finance for | n Industriase Significance of Einenee | IIa. to Industrial D | avalonment | | |
| | Finance for Industries: Significance of Finance to Industrial Development- | | | | | |
| Unit-IV | Owned, and External Funds for Industrial Development- Role and Types of | | | | | |
| | SIDC Con | mercial Banks etc. in Industrial Deve | lonment- Indust | trial Finance | | |
| | in India its Trands and Problems | | | | | |
| | Current I | ssues in Industrial Development. R | ecent Trends i | n Industrial | | |
| | Growth in | India- Growth of Major Industries: Cott | ton Textiles Irc | on and Steel | | |
| | Intersection and Engineering Goods- Development and Problems | | | | | |
| Unit-V | of Small-Scale Industries in India- Role of Public and Private Sectors in India- | | | | | |
| | Effects of I | Liberalization on Industrial Developmen | t in India- Role | of MNCs in | | |
| | Industrial Development- Remedies for Sick Industries- Industrial Policy of | | | | | |
| | India before and after 1990s. | | | | | |
| References: | | | | | | |
| Ahluwalia, I. | J. (1985). In | dustrial Growth in India. Oxford Univer | sity Press, New | Delhi. | | |
| Barthwal,R.I | R.(2010). Ind | lustrial Economics: An Introductory Tex | kt Book. Wiley | Eastern Ltd. | | |
| New Del | hi. | | - | | | |
| Brahmanand | a, P.R. and | V.R. Panchamukhi (Ed.) (1987). The I | Development Pr | ocess of the | | |
| Indian Economy. Himalaya Publications. New Delhi. | | | | | | |
| Cherunilam, | F. (1994). | Industrial Economics: Indian Perspective | ctive. Himalaya | • Publishing | | |
| House. Mumbai. | | | | | | |
| Dutt, G. and | A. Mahajan | (2016), Indian Economy, S. Chand Publi | shing, New Del | hi. | | |
| Kidwell, D.D. Blackwell, D.W. Whidbee, D.A. and R.W Sias (2011). Financial Institutions. | | | | | | |
| Markets, and Money. John Wiley and Sons. New Jersey. United States. | | | | | | |
| Kuchhal, S.C. (1980). Industrial Economy of India, Chaitanya Publishing House Allahabad. | | | | | | |
| Reserve Bank of India. Report on Currency and Finance (Annual). Government of India. | | | | | | |
| New. | | | | | | |
| Outcomes | \blacktriangleright Students | will be able to realize the importance of | t industrial deve | lopment and | | |
| | the factors | which influence its growth based on the | current issues a | and trends in | | |
| 1 | industrial d | evelopment. | | | | |

Name: Dr. A. Narayanamoorthy Designation: Senior Professor and Head Address: Departemnt of Economics and Rural Developemnt Alagappa University, Karaikudi – 630 003 Phone: 94860 82154 Email: na_narayana@hotmail.com; narayana64@gmail.com



Educational qualification: M.A., M. Phil., Ph.D., (all in Economics)

Professional experience:

- Senior Professor and Head, Department of Economics and Rural Development, Alagappa University, Karaikudi (January 2008 to till date).
- NABARD Chair Professor and Head, Department of Economics and Rural Development, Alagappa University, Karaikudi (January 2011 to December 2016).
- Reader, Gokhale Institute of Politics & Economics, Pune, (December 2000 to January 2008).
- Lecture, Gokhale Institute of Politics and Economics, Pune (November 1994 to December 2005).

Honours and Awards:

- Full-time Member (Official), Commission for Agricultural Costs and Prices, Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi.
- Vice-President, Indian Society of Agricultural Economics, Mumbai, November 23, 2017.
- Professor Ramesh Chandra Agrawal Award of Excellence, Indian Society of Agricultural Economics, Mumbai, on November 29, 2009.
- Honorary International Researcher, Centre for Comparative Water Policies and Laws, School of Commerce, University of South Australia, Adelaide.
- Member, Editorial Committee, Indian Journal of Agricultural Economics.

Recent publications:

- Narayanamoorthy, A. and P. Jothi (2019), "Water Saving and Productivity Benefits from SRI: A Study of Tank, Canal and Groundwater Irrigated Settings in South India", Water Policy, Vol. 21, No. 1, pp. 162-177, (IWA, London, UK)
- Narayanamoorthy, A. (2018), Financial Performance of India's Irrigation Sector: A Historical Analysis", *International Journal of Water Resources Development*, Vol. 34, No.1, pp. 116-131 (Routledge, London, UK).
- Narayanamoorthy, A. and N. Devika (2018), "Economic and Resource Impacts of Drip Method of Irrigation on Okra Cultivation: An Analysis of Field Survey Data", *Journal of Land and Rural Studies*, Vol. 6, No.1, pp. 1-19 (Sage Publications).
- Narayanamoorthy, A.; M. Bhattarai and P. Jothi (2018), "An Assessment of Economic Impact Drip Irrigation in Vegetable Production in India", *Agricultural Economics Research Review*, Vol. 31 (1): 105-112.
- Narayanamoorthy, A. (2017), "Farm Income in India: Myths and Realities", *Indian Journal of Agricultural Economics*, Vol. 72, No. 1, January-March, pp. 49-75.
- Narayanamoorthy, A.; R. Suresh and P. Alli (2017), "Dynamics of Input Use Efficiency in Selected Crops Cultivation in India: A Temporal and Spatial Analysis", *Indian Journal of Agricultural Economics, July-September*, Vol. 72, No.3, pp. 215-229.
- Narayanamoorthy, A. (2015), "Groundwater Depletion and Water Extraction Cost: Some Evidence from South India", International *Journal of Water Resources Development*, Vol. 31, No. 4, pp. 604-617 (Routledge, London, UK).

Total Citation: 2497; h-index: 26; i10-index: 62

Name: Dr. R. Suresh Designation: Assistant Professor Address: Department of Economics and Rural Development Alagappa University, Karaikudi – 630 003 Tamil Nadu, India Phone: 09486124907 Email: sureshsaga42@yahoo.co.in; saga42.suresh@gmail.com



Educational qualification:

- M.A, Economics
- M.Phil, Economics
- Ph.D., Economics

Professional experience:

• Assistant Professor, Department of Economics and Rural Developemnt, Alagappa University, Karaikudi (February 2016 to till date).

Recent publications:

- Narayanamoorthy, A.; M. Bhattarai and R. Suresh (2018), "Has Profitability of Foodgrain Production Declined After Implementation of MGNREGS in India?", in Bhattarai, M. et al., (eds.), *Employment Guarantee Programme and Dynamics of Rural Transformation in India*, Springer, Singapore, pp 131-152.
- Narayanamoorthy, A. R. Suresh and P. Alli (2017), "Public Procurement of Foodgrains and Farm Income Nexus in India: A Macro-Level Analysis", *Indian Journal of Agricultural Marketing*, Vol. 31, No. 3, pp. 13-26
- Narayanamoorthy, A. R.Suresh and P. Alli (2017), "Dynamics of Input Use Efficiency in Selected Crops Cultivation in India: A Temporal and Spatial Analysis", *Indian Journal of Agricultural Economics, July-September*, Vol. 72, No.3, pp. 215-229.
- Narayanamoorthy, A. and R. Suresh (2016), "Does Urbanisation Affect Tank Irrigation Development in Tamil Nadu? A Macro-Level Analysis", *Review of Development & Change*, Vol.21 No. 2, pp. 11-34.
- Narayanamoorthy, A.; P. Alli and R. Suresh (2016), "Is Farm Profitability Declining in India?: The Case of Sugarcane Crop" in D. Marothia .; W. Martin, A. Janaiah and C.L. Dadhich (Eds.), *Re-Visiting Agricultural Policies In the Light of Globalisation Experience: The Indian Context*, Indian Society of Agricultural Economics, Mumbai , pp. 145-159.

Total Citation: 21 h- index: 4 i10- index: 0

Name: Dr. K. Ramesh Kumar Designation: Assistant Professor Address: Department of Economics and Rural Development Alagappa University, Karaikudi - 630 003 Tamil Nadu, India. Phone: 9443216654 / 9047589457 Email: ragasairameshkumar@gmail.com



Educational qualification:

- M.B.E., Master of Business Economics
- Ph.D., Economics

Professional experience:

- Assistant Professor, Department of Economics and Rural Development, Alagappa University. Karaikudi, February, 2016 to till date.
- Assistant Professor, Department of Economics, Guru Nanak College, Chennai, June, 2014 to January, 2016.
- Guest Lecturer, Department of Economics, Bharathiar University, Coimbatore, June, 2013 to May, 2014.

Recent publications:

- Ramesh Kumar, K. (2017)," Demographic dividend and youth unemployment: Evidence from Indian states", *Shanlax International Journal of Economics*, Vol. 5, No.2, pp.8-17.
- Ramesh Kumar, K. (2017),"Women, Work and Wage in Rural Labour Market in India-Special reference to Tamilnadu", *World Journal of Science and Research*, Vol. 2, Spl. Issue, pp.123-131.

Name: Suresh Babu Designation: Senior Research Fellow / Head of Capacity Strengthening Address: International Food Policy Research Institute Director General's Office, 1201 Eye Street, NW, Washington, DC 20005-3915 USA Phone: +1.202.862.5618 Email: s.babu@cgiar.org



Educational qualification:

- M.S., Economics
- Ph.D., Economics

Professional experience:

- Research Fellow, Research Economist at Cornell University, Ithaca, New York.
- Senior Food Policy Advisor to the Malawi Ministry of Agriculture
- Senior Lecturer at the University of Malawi.
- IFPRI's coordinator of its Central Asia program during 1997-2003 and the coordinator of the South Asia Initiative of IFPRI during 2001-2006.

Honours and Awards:

• Fellow of the National Academy of Agricultural Sciences, India, 2018

Recent publications:

- Babu, S.C. and R.P. Shah (2019), *Agricultural Research and Extension System in Nepal: An Organisational Review*, IFPRI, Discussion Paper 01810, International Policy Research Institute, Washington, DC.
- Jain, P.K.; B.S. Hansra, and S.C. Babu (2019), Open and Distance learning for Capacity Deveopment of Extension Professionals, in (Ed.) *Agricultural Extension Reforms in South Asia, Status, Challenges and Policy Options*, Public Food Policy and Global Development Series, pp. 275 – 285.
- Babu, S.C.; M.George and P. Nilam (2018), "Integrating Environmental Considerations in the Agricultural Policy Process: Evidence from Nigeria" *Environmental Development*, Vol. 25, No. 2, pp. 111-125.
- Lalitha, A.; S.C. Babu and K.S. Purnima (2018) "Internet of Things: Applications to Developing Country Agriculture Sector", *International Journal of Agriculture Sciences*, Vol. 10, No. 20, pp. 7410-7413.
- Deepayan, D. and S.C. Babu (2018), "What Does it Take to Stabilise India's Sugar Market?", *Economic and Political Weekly*, Vol. 53, No.36, pp. 16-18.
- Danielle, R.; H.; Steven, S.C.; Babu, H.L. Sheryl and M. David (2018), "The Kaleidoscope Model of Policy Change: Applications to Food Security Policy in Zambia", *World Development*, Vol. 109, No. pp. 101-120.

Total Citation: 7506 h- index: 42 i10- index: 163

Name: Dr. K. Jothi Sivagnanam Designation: Professor and Head Address: Department of Economics University of Madras, Chepauk Chennai - 600 005, Tamil Nadu, India Phone: 9444285357 Email: kjothisiva24@gmail.com



Educational Qualification:

- M.A., Economics
- M.Phil., Economics
- Ph.D., Economics

Professional Experience:

- Professor, Department of Economics, University of Madars, Chennai, March 1999 to till date.
- Reader, Pachaiyappa's College, Kanchipuram, Tamil Nadu, October 1987 to February 1999.

Honours and Awards:

- Received University Grants Commissions Faculty Improvement Programme in 1995.
- Awarded the Union Planning Commissions' Chair on Planning and Development during 1999-2003.

Recent publications:

- Sivagnanam, K.J. and K. Murugan (2019), "Impact of Public Spending on National Food Security Mission and Farmers Livelihoods in Tamil Nadu", *Journal of Land and Rural Studies*, Vol.7, No. 2, pp. 121-140.
- Sivagnanam, K.J.; K. Murugan and M. Thenkovan, (2019), Impact of National Food Security Mission on Farmers Livelihood in Tamil Nadu", *Economic Affairs*, Vol. 64, No. 1, pp. 137-150.
- Murugan, K. and K.J. Sivagnanam, (2018), "Agrarian Crisis and Farmer's Suicide Scenario in Tamil Nadu", *Research Journal of Humanities and Social Sciences*, Vol. 9, No. 4, pp. 819-823.
- Abubakar, J. and K.J. Sivagnanam (2017), Fisher's Effect: An Empirical Examination Using India's Time Series Data, *Journal of Quantitative Economics*, Vol. 15, No. 3, pp. 611-628.
- Murugan, K. and K.J. Sivagnanam (2018), Fisheries Sector and Economic Growth in India, *Journal of Economic and Social Development*, Vol. 14, No. 2, pp. 83-99.
- Sivagnanam, K.J. (2017), *Farmer Suicides in Kerala*, AERC Research Study No: 161, Agro Economic Research Centre, Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi, University of Madras, Tamil Nadu.

Total Citation: 56 h- index: 3 i10- index: 1

Name: Dr. M. Ramachandran Designation: Professor Address: Department of Economics Pondicherry University R.V.Nagar, Kalapet Puducherry – 605014 Phone: 94426 26281 Email: ramachandraneco@gmail.com



Educational qualification:

- M.A., Economics
- M.Phil., Economics
- Ph.D., Economics

Professional experience:

- Professor, Department of Economics, Pondicherry University, Pondicherry, March 2006 to till date.
- Registrar (i/c), Pondicherry University ,February, 2016 to July, 2017.
- Reserve Bank of India Chair Professor, Institute for Social and Economic Change, Bangalore, April, 2005 to February, 2006.

Honours and Awards:

• Vice President (Elect), the Indian Econometric Society (2014-15, 2015-16 and 2016-17)

Recent publications:

- Ramachandran, M. And S. Carmel (2018), "Appetite for Official Reserves", *Economic and Political Weekly*, Vol. 53 No.13, pp. 120-128.
- Rather, S.R. .; R.S. Durai and M. Ramachandran (2018), "Inflation and the Relative Price Dispersion: a Case for Four Percent Solution", *Australian Economic Papers*, Vol. 57, No.1, pp. 81-91.
- Rafi, O.P.C.M. and M. Ramachandran (2018), Capital Flows and Exchange Rate Volatility Experience of Emerging Economies", *Indian Economic Review*, Vol. 53, No. 1-2, pp. 183-205.
- Balaji, B.; S. R.S.Durai and M. Ramachandran (2018), "Spillover Effects of Real and Nominal Uncertainties in India", *Journal of Quantitative Economics*, Vol.16, No.1, pp.143-162.
- Bathmanaban, B.; R.S.S.Durai and M. Ramachandran (2017), "The Relationship between Output Uncertainty and Economic Growth-Evidence from India", *Economics Bulletin*, Vol. 37, No. 4, pp. 2680-2691.
- Paul, S.; S.R. Rather and M. Ramachandran (2017), "Money and Inflation in India: Evidence from P-star Model", *Bulletin of Economic Research*, Vol. 69, No.4, pp. E94-E111.

Total Citation: 618 h- index: 11, i10- index: 13

Name: Dr. R. Gopinath Designation: Senior Scientist Address: M S Swaminathan Research Foundation 3rd Cross Street, Institutional Area, Taramani Chennai - 600 113, India Phone: 9443871600 Email: gopidina@gmail.com



Educational qualification:

- M.A., Economics
- M.Phil, Economics
- Ph.D., Economics

Professional experience:

- Senior Scientist, M S Swaminathan Research Foundation (MSSRF), Chennai, April, 2013 to till date.
- Program Director, Reliance Foundation, Chennai, June, 2012 to March, 2013.
- Research Associate, United Nations Development Programme, New Delhi, March, 2010 to June, 2012.
- Scientist, M S Swaminathan Research Foundation, Chennai, June, 2005 to February, 2010.

Recent publications:

- Rukmani, R.; R. Gopinath; G. Anuradha; R. Sanjeev and Varun Kumar Yadav(2018), "Women as A Drivers of Change for a Nutrition-Sensitive Agriculture: The Case Study of a Novel Extension Approach in Wardha", *Agriculture Research*, Vol. 8, No. 31, pp.1-8.
- Sujath, R. and R. Gopinath (2018), "*Hype over Pad Man but India's Menstrual Owes Continues*", The Hindu Centre for Politics and Public Policy, March 12, 2018
- Gopinath, R.; R. Vimal and N. Amaravathi (2017), "Cost-Return Analysis of Floriculture: A Case Study from Vedaranyam, Tamil Nadu", *Indian Journal of Social Research*, Vol. 58, No. 4, pp. 495-506.
- Nagaraj, K.; P. Sainath; R. Rukmani and R. Gopinath (2014), "Farmers' Suicides in India: Magnitudes, Trends, and Spatial Patterns, 1997-2012", *Review of Agrarian Studies*, Vol 4, No 2, pp. 53-83.
- Gopinath, R (2012), "Changing Irrigation Pattern in an Indian Village: Case Studies of Two Farmers", in Brij Raj Chauhan and A Satyanarayana (Eds), *Changing Villages in India*, Rawat Publications, Delhi.

Name: Susanto Kumar Beero Designation: Sr. Research Analyst Address: Institute of Economic Growth, University Enclave University of Delhi (North Campus) Delhi - 110 007, India. Phone: 8527723965 Email: susanto.beero85@gmail.com



Educational qualification:

- M.A., Economics
- M.Phil, Economics
- Ph.D., Economics

Professional experience:

Sr. Research Analyst, Institute of Economics Growth, New Delhi (August 2019 to till date)

Recent publications:

- Susanto Kumar Beero and A. Narayanamoorthy, (2019), *Irrigation Impacts on Rural Poverty in India: Macro and Micro Evidence*, Concept Publishing Company, New Delhi.
- Beero, S.K. (2018), "Rural Infrastructural, Value of Agricultural Output and Poverty Nexus in Rural India: A Multi-District Study" *Agricultural Situation in India*, Vol. 75, No. 2, May, pp. 20-29.
- Beero, S.K. (2016), "Infrastructural Development and Literacy Nexus in Rural India: A District Level Analysis" *Man and Development*, Vol. 38, No. 3, March, pp. 125-134.
- Beero, S.K. (2016), "Poverty in Irrigated and Rainfed Ecosystems: Village Studies in Tamil Nadu" *Productivity*, Vol. 57, No. 2, Jul-Sept., pp. 141-148.